Electronic Supplementary Material (ESI) for Nanoscale.
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Table S1. a) Differentilly Expressed Genes (DEG) GO VS Control

GENE	logFC	AveExpr	t	p value	B-H FDR p value	Significant (FDR p < 0.1 and p < 0.005)	B
COX4I1	-0.274889	13.656777	-3.798198	0.0042361	0.09988	YES	-1.852175
MCM5	0.4069591	9.7939215	3.7983387	0.0042352	0.09988	YES	-1.851962
FERMT3	0.5097497	9.5102908	3.806388	0.0041832	0.09895	YES	-1.839743
AGO1	0.3182758	8.3959429	3.8075339	0.0041759	0.09894	YES	-1.838004
PRRC2C	0.5559395	10.093423	3.8095008	0.0041633	0.0988	YES	-1.83502
VASP	0.2838499	7.5669705	3.812285	0.0041455	0.09854	YES	-1.830796
PRICKLE2	0.2627983	7.168926	3.8129728	0.0041412	0.09854	YES	-1.829753
MLEC	0.3444564	10.419546	3.8136918	0.0041366	0.09854	YES	-1.828662
MAPK11	0.2370115	7.0293621	3.8149157	0.0041289	0.09854	YES	-1.826806
CD40	0.2823625	9.1378764	3.8150207	0.0041282	0.09854	YES	-1.826647
NEUROG1	0.2857395	6.9422776	3.8154566	0.0041254	0.09854	YES	-1.825986
TIA1	-0.302032	8.1654761	-3.816664	0.0041178	0.09854	YES	-1.824155
CCDC138	-0.33455	8.4977491	-3.823513	0.0040748	0.09798	YES	-1.813773
FOXJ2	0.3597376	9.3545693	3.825258	0.0040639	0.09788	YES	-1.811129
E4F1	-0.365256	9.662424	-3.830048	0.0040343	0.09732	YES	-1.803873
EMP3	0.4722059	10.594021	3.8313479	0.0040262	0.09729	YES	-1.801904
APTX	-0.263352	10.523497	-3.832618	0.0040184	0.09726	YES	-1.799981
DYNC2LI1	-0.263134	7.5284709	-3.834594	0.0040063	0.09713	YES	-1.79699
USP14	0.4195174	8.8494275	3.8356975	0.0039995	0.09713	YES	-1.795318
FBXO25	0.2798821	6.8303758	3.8366414	0.0039937	0.09713	YES	-1.793889
GPSM3	0.4558127	8.990817	3.8375403	0.0039883	0.09713	YES	-1.792529
DIAPH1	0.3853885	8.8766063	3.8408088	0.0039684	0.09685	YES	-1.787582
CAPNS1	0.436304	9.5910423	3.8411385	0.0039664	0.09685	YES	-1.787083
ACTG1P4	0.4037141	8.5286236	3.8428963	0.0039557	0.09685	YES	-1.784424
MYNN	-0.338913	8.6260534	-3.851528	0.0039039	0.09576	YES	-1.771368
STK10	0.2974622	7.8729423	3.851674	0.003903	0.09576	YES	-1.771148
SLC30A9	0.2866534	10.164316	3.8542168	0.0038879	0.09569	YES	-1.767304
PSME4	0.2436188	10.924396	3.8586294	0.0038618	0.09521	YES	-1.760636
POLR1C	-0.254305	10.580165	-3.85945	0.0038569	0.09521	YES	-1.759397
GTF2H2	-0.400508	7.334908	-3.86045	0.003851	0.09521	YES	-1.757885
GDPD3	-0.289776	7.0920583	-3.863625	0.0038324	0.09496	YES	-1.753089
GOT1L1	0.3159445	7.0916206	3.8670937	0.0038122	0.09462	YES	-1.747851
SARS2	0.2970162	10.047984	3.8689722	0.0038013	0.09451	YES	-1.745015
F8A3	0.3081591	7.0264562	3.8692555	0.0037996	0.09451	YES	-1.744588
INTS12	-0.331679	10.015303	-3.871071	0.0037891	0.09451	YES	-1.741847
TERF2	0.3463989	9.0162637	3.8717086	0.0037854	0.09451	YES	-1.740885
IGF2R	0.3480233	9.5738656	3.8742353	0.0037709	0.0944	YES	-1.737072

PAK2	0.254628	9.1093022	3.8749124	0.003767	0.0944	YES	-1.73605
CCDC77	-0.367411	9.0730455	-3.875294	0.0037648	0.0944	YES	-1.735475
MARK2	0.5665234	7.4702296	3.8764086	0.0037584	0.0944	YES	-1.733793
PHF13	0.3148209	9.498051	3.8767824	0.0037563	0.0944	YES	-1.733229
PYCR3	0.3055838	7.3290424	3.8775421	0.0037519	0.0944	YES	-1.732083
THUMPD2	-0.304693	7.9645257	-3.882883	0.0037215	0.09413	YES	-1.724028
IRAK1	0.5443909	11.069871	3.8861405	0.0037031	0.09383	YES	-1.719117
NUDT7	-0.375406	8.8014865	-3.89329	0.003663	0.09298	YES	-1.708342
FAM110A	0.3268997	7.9928481	3.8945975	0.0036557	0.09295	YES	-1.706373
CDK6	0.6758159	10.134225	3.895806	0.003649	0.09294	YES	-1.704553
SNORD73A	-0.365067	7.2507857	-3.898439	0.0036344	0.09273	YES	-1.700587
PDE12	0.3108372	9.0144286	3.8988187	0.0036323	0.09273	YES	-1.700016
SF3B4	0.5540857	10.84579	3.9009473	0.0036205	0.09271	YES	-1.696811
RANGRF	-0.397684	7.6996883	-3.903181	0.0036083	0.09255	YES	-1.693449
NDUFB7	0.3342444	11.617853	3.9044945	0.0036011	0.09253	YES	-1.691472
ALDOA	0.4985144	10.126899	3.9062635	0.0035914	0.09245	YES	-1.68881
B4GAT1	0.2670566	8.364328	3.9100635	0.0035707	0.09207	YES	-1.683093
REXO2	-0.302399	11.294989	-3.910103	0.0035705	0.09207	YES	-1.683034
ZNF281	0.3556534	8.7002873	3.9136869	0.0035511	0.09189	YES	-1.677643
ZMAT3	0.4311851	10.705786	3.9162357	0.0035374	0.0917	YES	-1.67381
NFKB1	0.3060784	11.730636	3.9177051	0.0035295	0.09166	YES	-1.671601
TACC1	0.2965667	10.414522	3.9199773	0.0035173	0.09151	YES	-1.668186
HDDC2	-0.435375	12.261011	-3.92005	0.0035169	0.09151	YES	-1.668076
CNEP1R1	-0.271626	8.316784	-3.921889	0.0035071	0.09151	YES	-1.665314
SPRYD7	0.4710189	8.7126101	3.9232304	0.0035	0.09151	YES	-1.663297
C1orf132	-0.371274	7.2301356	-3.924189	0.0034949	0.09151	YES	-1.661856
EIF3B	0.3664464	10.996938	3.924442	0.0034936	0.09151	YES	-1.661477
LTA	0.4947147	10.865773	3.9245928	0.0034928	0.09151	YES	-1.661251
SHROOM3	0.2618995	7.3124237	3.9254522	0.0034882	0.09151	YES	-1.659959
ZFP36	0.270753	9.1843757	3.9266702	0.0034818	0.09151	YES	-1.65813
PPP6R1	0.3493632	8.3421129	3.9275495	0.0034771	0.09151	YES	-1.656809
NME3	-0.263375	8.5320643	-3.931578	0.0034559	0.09151	YES	-1.650759
FOXRED2	0.4053531	8.3741442	3.9317516	0.003455	0.09151	YES	-1.650499
SIT1	0.2542711	7.9944804	3.9340307	0.0034431	0.09151	YES	-1.647077
RPL15	-0.320441	12.870487	-3.934402	0.0034411	0.09151	YES	-1.646519
TM7SF3	0.4833854	8.5027721	3.9360149	0.0034327	0.09151	YES	-1.644099
UBQLN4	0.2664114	10.547309	3.9373326	0.0034259	0.09151	YES	-1.642121
SCAMP4	0.2716509	7.2529383	3.9376552	0.0034242	0.09151	YES	-1.641637
MBIP	-0.358942	8.5726609	-3.939305	0.0034157	0.09151	YES	-1.639162
NUP62CL	-0.300461	8.3203164	-3.941698	0.0034033	0.09148	YES	-1.635572
C11orf84	0.2587365	7.4035103	3.9452281	0.0033851	0.09116	YES	-1.630277
MRPS18B	0.3451243	10.05202	3.9494565	0.0033635	0.09074	YES	-1.623937
C10orf76	0.3308758	8.5591543	3.9511312	0.003355	0.09068	YES	-1.621427

PABPC4	0.5299971	11.548071	3.9513313	0.003354	0.09068	YES	-1.621127
TLR9	0.4524495	8.2660591	3.9565104	0.0033278	0.09028	YES	-1.613366
PLAGL2	0.5042034	8.7699242	3.956599	0.0033273	0.09028	YES	-1.613234
AARS2	0.2666055	8.3189498	3.9587598	0.0033165	0.09028	YES	-1.609997
DCAF7	0.3296361	9.9305926	3.9598772	0.0033109	0.09028	YES	-1.608323
RPS27L	-0.304114	12.180781	-3.962712	0.0032967	0.0901	YES	-1.604078
IFT74	-0.429549	7.747609	-3.965469	0.003283	0.0899	YES	-1.599951
PSMD4	0.2773592	10.298682	3.9695401	0.0032628	0.08951	YES	-1.593858
ZMYND19	-0.278958	9.8598375	-3.96962	0.0032624	0.08951	YES	-1.593738
CCDC130	-0.538948	9.8241833	-3.970928	0.003256	0.08951	YES	-1.591781
TMEM100	-0.351395	7.2913511	-3.97363	0.0032427	0.08947	YES	-1.587739
COX11	-0.289389	8.1339349	-3.97412	0.0032403	0.08947	YES	-1.587006
DCTN1	0.2615844	8.8668651	3.9753511	0.0032343	0.08947	YES	-1.585165
LARS2	0.3653936	9.0150812	3.9753953	0.0032341	0.08947	YES	-1.585099
MTHFD2	-0.378197	11.202689	-3.979284	0.0032151	0.08938	YES	-1.579284
AATF	0.4010236	9.4510964	3.9806975	0.0032083	0.08936	YES	-1.577171
TEX9	-0.291005	8.1966453	-3.984142	0.0031916	0.08907	YES	-1.572023
TRIM56	0.3019779	7.8004089	3.9878502	0.0031738	0.08874	YES	-1.566482
TNFRSF17	-0.383481	7.6833141	-3.988831	0.0031691	0.08874	YES	-1.565017
ZNF684	-0.298407	7.3989123	-3.99403	0.0031444	0.08825	YES	-1.557253
LOC644936	0.7411543	11.357868	3.9942693	0.0031432	0.08825	YES	-1.556896
DPYSL2	0.3673243	10.637923	3.9956311	0.0031368	0.08825	YES	-1.554863
STAP1	-0.453206	8.9183183	-3.997204	0.0031293	0.08825	YES	-1.552514
DIMT1	-0.288693	11.501953	-3.997493	0.003128	0.08825	YES	-1.552084
FAM213B	0.3301121	8.8575836	3.9975042	0.0031279	0.08825	YES	-1.552067
LAMP1	0.3296104	10.309073	3.998421	0.0031236	0.08825	YES	-1.550698
IRAK1BP1	-0.304654	7.6339008	-3.998812	0.0031218	0.08825	YES	-1.550115
C12orf29	-0.439427	9.1135679	-4.000329	0.0031146	0.08825	YES	-1.547851
SNORD31	-0.770836	8.531381	-4.001547	0.0031089	0.08825	YES	-1.546033
SCARNA11	-0.303684	7.32699	-4.005243	0.0030916	0.08825	YES	-1.54052
DNAJC2	-0.310007	7.1787533	-4.005915	0.0030885	0.08825	YES	-1.539517
DERL2	-0.344887	8.8798671	-4.006271	0.0030869	0.08825	YES	-1.538987
HIST1H3G	-0.250434	7.0502415	-4.012039	0.0030601	0.08809	YES	-1.530387
MYCBP2	0.5053993	9.2165779	4.0147647	0.0030476	0.0879	YES	-1.526325
PTOV1	0.5452469	10.358138	4.0163113	0.0030405	0.08787	YES	-1.52402
PLEKHM2	0.4378712	10.567309	4.0191914	0.0030274	0.08767	YES	-1.519729
H2AFX	0.395656	8.1945125	4.0195316	0.0030258	0.08767	YES	-1.519222
ATAD3A	0.5455435	10.012514	4.0207582	0.0030202	0.08767	YES	-1.517395
CMC1	-0.290118	9.051254	-4.026046	0.0029963	0.08729	YES	-1.509522
TNFSF4	0.2545067	7.4199209	4.0293393	0.0029815	0.08703	YES	-1.50462
ORAOV1	-0.448138	8.4769089	-4.031144	0.0029734	0.08697	YES	-1.501934
NUDCD3	0.2855934	8.1107096	4.0316775	0.002971	0.08697	YES	-1.501141
RNU1-3	-0.639823	9.3267954	-4.035196	0.0029554	0.08679	YES	-1.495906

NOL6	0.2669778	8.9731746	4.039221	0.0029375	0.08644	YES	-1.489921
GFM2	-0.277115	7.6178994	-4.04615	0.0029071	0.08572	YES	-1.479622
USP11	0.3327308	8.465583	4.0471271	0.0029029	0.08572	YES	-1.47817
ARID3A	0.3312825	8.0720575	4.0483242	0.0028977	0.08572	YES	-1.476392
HMGB1P1	-0.354806	9.488301	-4.048437	0.0028972	0.08572	YES	-1.476224
FAM192A	0.2848183	8.2149028	4.0506599	0.0028875	0.08572	YES	-1.472922
RPS4X	0.2675392	13.386417	4.0517722	0.0028827	0.08572	YES	-1.47127
HMMR	-0.416714	9.6000271	-4.052228	0.0028807	0.08572	YES	-1.470593
RRP12	0.499076	9.0821268	4.0540836	0.0028727	0.08572	YES	-1.467838
LRP10	0.4954623	9.2492744	4.0586335	0.0028532	0.08551	YES	-1.461084
CYBB	0.2981552	8.2839936	4.0591131	0.0028511	0.08551	YES	-1.460372
POTEF	0.2845505	10.261703	4.0612106	0.0028422	0.08551	YES	-1.45726
MRPS27	0.4048402	11.066403	4.0645249	0.0028281	0.08528	YES	-1.452343
DESI1	0.3321464	10.373908	4.0646542	0.0028275	0.08528	YES	-1.452151
OR13A1	-0.276753	7.6693009	-4.070906	0.0028012	0.08482	YES	-1.44288
KIAA1147	0.2750668	9.8352014	4.0737472	0.0027893	0.08464	YES	-1.438669
BCL9	0.2772954	8.1868166	4.0738478	0.0027889	0.08464	YES	-1.43852
CCDC124	0.5038525	8.3832019	4.0763138	0.0027786	0.08464	YES	-1.434866
NIFK	-0.320432	10.880108	-4.077421	0.002774	0.08464	YES	-1.433225
S1PR4	0.3885008	8.2767188	4.0777259	0.0027727	0.08464	YES	-1.432774
TM9SF4	0.4482145	9.521595	4.0786628	0.0027688	0.08464	YES	-1.431386
CHD4	0.4134166	9.8751187	4.0787752	0.0027684	0.08464	YES	-1.43122
METTL25	-0.337952	8.3340612	-4.0804	0.0027616	0.08464	YES	-1.428813
SNORD3C	-0.394774	8.0281136	-4.081117	0.0027587	0.08464	YES	-1.427751
C2CD5	-0.489825	9.5949098	-4.082788	0.0027518	0.08464	YES	-1.425277
RAVER1	0.5599497	8.5151295	4.087879	0.0027309	0.08462	YES	-1.41774
MFF	-0.274987	8.378721	-4.089051	0.0027261	0.08462	YES	-1.416006
SCOC	-0.34699	8.1870375	-4.089395	0.0027247	0.08462	YES	-1.415497
TBCA	-0.426781	13.084069	-4.089954	0.0027225	0.08462	YES	-1.414669
EDRF1	-0.449967	9.0823265	-4.090276	0.0027211	0.08462	YES	-1.414193
GMNN	-0.376816	9.1235064	-4.093078	0.0027098	0.08462	YES	-1.410048
SNORD80	-0.640188	8.9511004	-4.096472	0.0026961	0.08462	YES	-1.405028
VCPKMT	-0.372222	8.5447271	-4.102521	0.0026718	0.08404	YES	-1.396085
ZDHHC23	-0.324276	8.2682393	-4.102795	0.0026707	0.08404	YES	-1.395679
SLC35E1	0.2914732	9.2813959	4.104889	0.0026624	0.08404	YES	-1.392585
PSMA2	-0.439522	9.6081872	-4.115231	0.0026216	0.083	YES	-1.377311
CFLAR	0.385352	9.1093112	4.1152575	0.0026215	0.083	YES	-1.377272
NFXL1	-0.33695	8.6512717	-4.115886	0.002619	0.083	YES	-1.376344
ZMIZ1	0.4316959	9.5749475	4.1162454	0.0026176	0.083	YES	-1.375814
SOCS1	0.3564686	8.0843794	4.1172677	0.0026136	0.083	YES	-1.374305
SPIB	0.7157363	10.214654	4.1182657	0.0026098	0.083	YES	-1.372832
MRPL47	-0.435932	8.6405823	-4.118718	0.002608	0.083	YES	-1.372165
CCR7	0.4274969	11.603395	4.1191378	0.0026064	0.083	YES	-1.371546

RAD23A	0.4652927	9.7001541	4.1221338	0.0025947	0.083	YES	-1.367125
ATXN7L3B	0.3746868	8.9584689	4.1255035	0.0025817	0.083	YES	-1.362155
CD82	0.5964582	9.1550988	4.1267607	0.0025769	0.083	YES	-1.360301
C14orf2	-0.31563	10.798217	-4.12955	0.0025662	0.083	YES	-1.356189
KAT2B	-0.254096	8.1168333	-4.130262	0.0025635	0.083	YES	-1.355139
CCNI	0.6047862	12.700852	4.1307749	0.0025616	0.083	YES	-1.354384
FKBP5	0.4818571	10.056144	4.1318729	0.0025574	0.083	YES	-1.352765
SNORD68	-0.366845	8.921787	-4.136347	0.0025404	0.083	YES	-1.346172
SH2D1A	0.3498061	7.2116155	4.1427205	0.0025164	0.08253	YES	-1.336787
EHD4	0.6020513	9.0196972	4.1431457	0.0025148	0.08253	YES	-1.336161
ALB	-0.431452	7.2284253	-4.14648	0.0025024	0.08244	YES	-1.331254
DUSP11	-0.366494	8.8433695	-4.148239	0.0024958	0.08241	YES	-1.328665
MS4A1	-0.515793	8.7569788	-4.151538	0.0024836	0.0822	YES	-1.323811
ALG13	-0.271564	8.1685914	-4.152308	0.0024808	0.0822	YES	-1.322679
PARPBP	-0.437823	8.3515306	-4.1529	0.0024786	0.0822	YES	-1.321808
CBL	0.2826079	8.1684018	4.1536928	0.0024757	0.0822	YES	-1.320642
KHDRBS1	0.4145281	12.030506	4.1539789	0.0024746	0.0822	YES	-1.320221
STUM	0.2959079	6.9787317	4.1550489	0.0024707	0.0822	YES	-1.318648
TMEM167A	-0.399199	8.7969722	-4.158298	0.0024588	0.0822	YES	-1.313871
CCL17	-0.343937	7.8805814	-4.163765	0.0024389	0.08202	YES	-1.305837
EIF4A2	-0.307036	12.540733	-4.165453	0.0024328	0.082	YES	-1.303357
GTF3C1	0.3463042	7.5765921	4.1656135	0.0024322	0.082	YES	-1.303121
NUDT6	-0.265743	7.8957809	-4.165727	0.0024318	0.082	YES	-1.302955
SHKBP1	0.4419237	7.8599186	4.1723296	0.0024081	0.08174	YES	-1.293259
NSMCE2	-0.323679	8.6396111	-4.172936	0.0024059	0.08174	YES	-1.292369
SAMSN1	-0.333493	7.8876428	-4.175106	0.0023982	0.08174	YES	-1.289184
PRDM1	-0.355836	7.9434659	-4.18195	0.002374	0.08114	YES	-1.279143
SUSD3	-0.379994	9.7785699	-4.187792	0.0023535	0.08063	YES	-1.270578
XRCC6	0.2706021	11.320145	4.1882222	0.002352	0.08063	YES	-1.269948
CDC45	-0.325728	10.473809	-4.188567	0.0023508	0.08063	YES	-1.269443
RBM45	-0.420922	9.2965482	-4.202	0.0023045	0.07951	YES	-1.249769
SH3BP5	0.290044	7.0849535	4.2048979	0.0022947	0.07936	YES	-1.245528
DNAJC27	-0.30886	8.0126003	-4.20658	0.002289	0.07935	YES	-1.243066
BMP7	-0.708648	9.5633793	-4.20939	0.0022795	0.07921	YES	-1.238956
FAM133B	-0.303089	8.5748644	-4.210342	0.0022763	0.07921	YES	-1.237563
C12orf76	-0.26328	7.7867496	-4.211206	0.0022734	0.07921	YES	-1.2363
COPA	0.504314	11.220567	4.2152388	0.0022599	0.0791	YES	-1.230405
CAMK2G	-0.282866	8.1005689	-4.219962	0.0022442	0.07873	YES	-1.223503
ZNF277	-0.38999	9.2941907	-4.228436	0.0022163	0.07794	YES	-1.211127
SNORA72	-0.415744	7.3188469	-4.228654	0.0022155	0.07794	YES	-1.210808
SLC25A33	-0.313501	7.2389511	-4.232402	0.0022033	0.07786	YES	-1.20534
GSK3B	0.4785539	9.1339748	4.2344486	0.0021967	0.07782	YES	-1.202353
ERGIC2	-0.492596	7.5375921	-4.236475	0.0021901	0.07777	YES	-1.199397

COMMD8	-0.394806	8.8321979	-4.243838	0.0021665	0.07712	YES	-1.188661
CEP41	0.2960197	8.4946004	4.2440719	0.0021657	0.07712	YES	-1.188321
DBNL	0.2785552	10.238205	4.2458872	0.00216	0.07712	YES	-1.185675
GNAI2	0.465527	9.9041337	4.2476383	0.0021544	0.07712	YES	-1.183124
CNN2	0.3753756	9.4372428	4.2505021	0.0021453	0.07712	YES	-1.178952
CMC2	-0.444995	11.326547	-4.251731	0.0021414	0.07712	YES	-1.177162
CD320	0.409344	9.4702868	4.252528	0.0021389	0.07712	YES	-1.176001
PIGK	-0.385934	8.4751342	-4.256761	0.0021256	0.07698	YES	-1.169838
USP9X	0.3322698	8.0304794	4.258599	0.0021199	0.07697	YES	-1.167164
MAP2K2	0.6137635	9.3508123	4.2612197	0.0021117	0.07686	YES	-1.16335
EIF3G	0.3544626	11.202336	4.2651376	0.0020996	0.07661	YES	-1.157651
UBN2	0.3148792	7.2028244	4.2708073	0.0020822	0.07616	YES	-1.149408
CSK	0.5421982	11.339661	4.2708642	0.002082	0.07616	YES	-1.149325
KATNBL1	-0.37817	7.3021597	-4.273478	0.002074	0.07616	YES	-1.145526
PMS1	-0.362267	7.2164453	-4.280426	0.002053	0.07566	YES	-1.135435
API5	0.3467689	9.8449149	4.2819499	0.0020484	0.07566	YES	-1.133221
FASTKD1	-0.479245	9.0674592	-4.292615	0.0020166	0.0747	YES	-1.117745
RNU4ATAC	-0.481646	7.6338396	-4.295273	0.0020087	0.0746	YES	-1.113892
CCDC189	-0.444933	7.7766185	-4.296374	0.0020055	0.0746	YES	-1.112295
SELENOF	-0.446111	10.930387	-4.296608	0.0020048	0.0746	YES	-1.111956
OSTC	-0.352928	11.228212	-4.303001	0.0019861	0.07433	YES	-1.102691
REV1	-0.346638	8.7082012	-4.306559	0.0019758	0.07413	YES	-1.097538
KIF14	0.4046764	8.3156023	4.3090158	0.0019687	0.07405	YES	-1.093981
RPAIN	-0.311194	10.299624	-4.309318	0.0019678	0.07405	YES	-1.093543
VAC14	0.4400848	8.6027486	4.3130297	0.0019572	0.074	YES	-1.088171
RRM1	0.4598174	11.825098	4.3192115	0.0019395	0.07353	YES	-1.079228
ZFP36L2	0.281355	7.9353323	4.3195673	0.0019385	0.07353	YES	-1.078713
MTRR	-0.349669	9.1153435	-4.32424	0.0019253	0.07337	YES	-1.071957
NUP214	0.5051369	8.8048664	4.3306031	0.0019075	0.07288	YES	-1.062762
NABP1	0.3087305	9.8820171	4.3324226	0.0019024	0.07288	YES	-1.060134
SS18L2	-0.421503	12.211889	-4.335531	0.0018938	0.07274	YES	-1.055645
AHCY	0.4465101	12.565058	4.3366368	0.0018908	0.07274	YES	-1.054049
SLC35A4	0.4941516	8.4241914	4.3428519	0.0018737	0.07235	YES	-1.04508
RNU6-15P	-0.74239	10.764993	-4.345241	0.0018672	0.07228	YES	-1.041633
PAK1IP1	-0.343685	8.8377598	-4.34582	0.0018656	0.07228	YES	-1.040798
AAR2	0.4223163	9.280951	4.3474917	0.0018611	0.07228	YES	-1.038387
ZFHX3	0.6641468	8.6477633	4.3487763	0.0018576	0.07228	YES	-1.036535
PSMC6	-0.333731	9.1704663	-4.351788	0.0018494	0.07228	YES	-1.032193
TMEM237	-0.430742	8.9853138	-4.355701	0.0018389	0.07215	YES	-1.026555
CS	0.3961745	11.813772	4.3601964	0.0018269	0.07187	YES	-1.02008
WDR6	0.4380578	9.8752623	4.3613077	0.0018239	0.07187	YES	-1.018479
TAOK1	0.3920885	7.2707693	4.3620692	0.0018219	0.07187	YES	-1.017383
TMEM107	-0.291583	7.2786188	-4.363067	0.0018193	0.07187	YES	-1.015947

SGK1	0.3192353	10.800946	4.3631098	0.0018192	0.07187	YES	-1.015885
SGSM2	-0.426413	10.563014	-4.36548	0.0018129	0.07187	YES	-1.012473
DTWD1	-0.361247	8.6303971	-4.367585	0.0018073	0.07187	YES	-1.009443
TNFAIP8L1	0.4825864	7.7230365	4.3708285	0.0017988	0.07187	YES	-1.004777
RNF144B	-0.343214	10.300217	-4.375764	0.001786	0.07181	YES	-0.997679
H6PD	0.3092666	7.3889874	4.3787131	0.0017783	0.0717	YES	-0.99344
SNHG8	-0.505841	11.005049	-4.380856	0.0017728	0.07167	YES	-0.990361
STIM1	0.3742076	8.0742665	4.3813456	0.0017715	0.07167	YES	-0.989657
NREP	-0.433696	9.1568498	-4.382566	0.0017684	0.07167	YES	-0.987904
DBNDD2	-0.385957	7.9766018	-4.388334	0.0017536	0.07149	YES	-0.979619
SIAH2	0.3593882	8.2869795	4.4035433	0.0017153	0.07013	YES	-0.9578
SNORA26	-0.465014	7.6875686	-4.404905	0.001712	0.07013	YES	-0.955847
MND1	-0.344766	9.0160549	-4.411166	0.0016965	0.06975	YES	-0.946877
PURG	0.289062	7.4156685	4.4150444	0.001687	0.06955	YES	-0.941323
NUP188	0.6203223	8.6884698	4.4237716	0.0016658	0.06887	YES	-0.928834
RNU1-28P	-0.622087	9.0117766	-4.428456	0.0016545	0.0686	YES	-0.922135
MRPL36	-0.388253	12.04786	-4.430251	0.0016502	0.0686	YES	-0.91957
CD22	0.4469001	8.3057414	4.4309195	0.0016486	0.0686	YES	-0.918614
KRTAP10-11	0.3204475	7.6564479	4.4380556	0.0016317	0.06824	YES	-0.908418
CFAP36	-0.349136	7.8425052	-4.44132	0.001624	0.06811	YES	-0.903756
BCL7C	0.4445523	8.5134518	4.4415105	0.0016236	0.06811	YES	-0.903485
SCRN1	0.4135606	8.3953521	4.4427919	0.0016206	0.06811	YES	-0.901656
POR	0.3627683	7.8595129	4.4472988	0.0016101	0.06811	YES	-0.895224
WDR48	0.4216082	9.4398353	4.4507279	0.0016021	0.06797	YES	-0.890332
UNC80	0.2786436	7.1791302	4.4532842	0.0015962	0.06792	YES	-0.886687
OR9A4	0.3091456	7.3963132	4.4559387	0.0015901	0.06786	YES	-0.882902
DEPTOR	-0.415767	7.8881026	-4.460831	0.0015789	0.06758	YES	-0.87593
IKZF4	0.2793267	7.0768379	4.4613898	0.0015777	0.06758	YES	-0.875134
SNX8	0.3583546	9.1860358	4.4635819	0.0015727	0.06758	YES	-0.872012
TPX2	0.361603	9.5911693	4.4677412	0.0015633	0.0675	YES	-0.866089
USP16	-0.46067	9.424544	-4.469152	0.0015601	0.0675	YES	-0.86408
ATP5D	0.5064545	10.758176	4.4751329	0.0015467	0.06719	YES	-0.855571
LSAMP	0.3579878	7.7972854	4.4822647	0.0015309	0.0667	YES	-0.84543
AK1	-0.514901	7.3494315	-4.488757	0.0015167	0.06628	YES	-0.836205
UBE2T	-0.421501	10.839018	-4.494788	0.0015036	0.0659	YES	-0.827642
HLA-DRB3	0.4766129	11.32057	4.4965083	0.0014999	0.0659	YES	-0.8252
PCMT1	-0.375918	11.604788	-4.502008	0.0014881	0.06561	YES	-0.817398
PAXIP1	-0.441162	9.1358483	-4.505204	0.0014813	0.06551	YES	-0.812865
HLA-E	0.5645764	10.372673	4.505252	0.0014812	0.06551	YES	-0.812797
PIGB	-0.464504	8.7217948	-4.506715	0.0014781	0.06551	YES	-0.810723
RSRP1	-0.701088	8.2993563	-4.516151	0.0014582	0.06508	YES	-0.797354
TMEM128	-0.315176	7.1691884	-4.519034	0.0014522	0.06501	YES	-0.793272
WAS	0.352886	11.500864	4.5245421	0.0014407	0.0647	YES	-0.785476

MRPL42	-0.49332	8.8235284	-4.525477	0.0014388	0.0647	YES	-0.784154
COPS7A	0.3384518	11.006275	4.5259513	0.0014378	0.0647	YES	-0.783483
C1orf174	-0.390469	10.055078	-4.527231	0.0014352	0.0647	YES	-0.781673
BCL2L1	0.5535083	9.3026573	4.5280015	0.0014336	0.0647	YES	-0.780583
TRMT13	-0.400636	8.3663921	-4.53046	0.0014286	0.0647	YES	-0.777107
ATXN2	0.4132332	10.504003	4.5373623	0.0014145	0.0647	YES	-0.767351
OXR1	-0.357882	9.765547	-4.538681	0.0014119	0.0647	YES	-0.765488
ARID5B	0.4372293	8.7809646	4.5516418	0.0013859	0.06381	YES	-0.747193
RPL34	-0.340182	11.266847	-4.553329	0.0013826	0.06381	YES	-0.744813
IER5	0.5012027	9.0515012	4.5539375	0.0013814	0.06381	YES	-0.743955
MFSD14A	-0.342869	8.2268107	-4.55514	0.001379	0.06381	YES	-0.74226
CLIC1	0.4388719	11.876157	4.558754	0.0013719	0.06381	YES	-0.737164
STMN3	-0.496084	7.1808451	-4.56013	0.0013692	0.06381	YES	-0.735225
SNORD35B	-0.495257	7.7682625	-4.562606	0.0013644	0.06381	YES	-0.731737
STAT2	-0.485114	9.3184257	-4.567589	0.0013547	0.06378	YES	-0.724717
DDOST	0.3414691	11.844457	4.574952	0.0013406	0.06332	YES	-0.714354
SPRED1	0.4288208	9.1554721	4.5869176	0.0013179	0.06245	YES	-0.697531
PRR11	0.4280061	7.9611797	4.5887373	0.0013145	0.06245	YES	-0.694974
SELENOT	-0.429935	8.1599606	-4.590384	0.0013114	0.06245	YES	-0.692661
CYBA	0.3674741	11.742233	4.5904342	0.0013113	0.06245	YES	-0.692591
RABL6	0.4580292	8.3522333	4.591466	0.0013094	0.06245	YES	-0.691142
CCNF	0.4154409	9.9130553	4.5924925	0.0013075	0.06245	YES	-0.6897
BTG3	-0.301112	9.3584866	-4.597178	0.0012988	0.06245	YES	-0.683122
PDCD10	-0.396023	8.4012864	-4.598764	0.0012959	0.06245	YES	-0.680898
NUF2	-0.310877	7.7925379	-4.605144	0.0012842	0.06245	YES	-0.671948
RPL7L1	0.420198	11.227899	4.6104823	0.0012745	0.06221	YES	-0.664465
SNORD52	-0.550478	8.0250583	-4.611057	0.0012734	0.06221	YES	-0.663659
RPL34P34	-0.391786	8.008042	-4.612772	0.0012703	0.06221	YES	-0.661256
PRKAR2A	0.5349501	7.9441443	4.6164993	0.0012636	0.06221	YES	-0.656036
SLC35A1	-0.366867	9.1517512	-4.620385	0.0012567	0.06217	YES	-0.650596
WASHC4	-0.340612	7.0964525	-4.623236	0.0012516	0.06213	YES	-0.646604
IMPA1	-0.526681	9.4872445	-4.626811	0.0012453	0.06203	YES	-0.641603
TMEM165	-0.394493	8.2222307	-4.63162	0.0012368	0.06182	YES	-0.634879
SRM	0.655783	11.257958	4.6466754	0.0012107	0.06072	YES	-0.613849
RASGRP3	-0.425381	10.669611	-4.647176	0.0012099	0.06072	YES	-0.61315
BCAP31	0.3494749	10.261654	4.6525213	0.0012008	0.06064	YES	-0.605692
DNAJC7	0.2951858	9.8771915	4.6533127	0.0011994	0.06064	YES	-0.604589
NUP37	-0.400281	11.156505	-4.663816	0.0011817	0.0601	YES	-0.58995
CENPQ	-0.449769	7.3006473	-4.664312	0.0011809	0.0601	YES	-0.589258
TMEM59	-0.329808	10.907192	-4.665046	0.0011797	0.0601	YES	-0.588237
MRTO4	0.407086	9.7363011	4.6653047	0.0011793	0.0601	YES	-0.587876
SAP30	-0.53241	9.4755323	-4.666175	0.0011778	0.0601	YES	-0.586663
MIS18BP1	-0.393309	9.6177359	-4.67022	0.0011711	0.0601	YES	-0.581033

IDH3A	0.3320788	9.9375663	4.6751796	0.0011629	0.0601	YES	-0.574131
MKNK2	0.5462485	10.480661	4.6768449	0.0011602	0.0601	YES	-0.571814
KIAA1143	-0.381949	8.0300447	-4.677235	0.0011596	0.0601	YES	-0.571271
SLC12A9	-0.522487	9.1958244	-4.677904	0.0011585	0.0601	YES	-0.570341
RNU6-1	-0.672786	10.706723	-4.68072	0.0011539	0.0601	YES	-0.566425
SNORA79	-0.643353	7.6375488	-4.689461	0.0011397	0.0601	YES	-0.55428
OPA3	0.3686697	7.7330851	4.6956789	0.0011298	0.05996	YES	-0.545647
STK17B	-0.376382	9.0263449	-4.699505	0.0011237	0.05986	YES	-0.540338
MTHFD1L	0.3249699	10.450563	4.7015816	0.0011205	0.05986	YES	-0.537457
SNORD38A	-0.430418	7.5499182	-4.704344	0.0011161	0.05986	YES	-0.533627
MRPS22	-0.33789	11.074788	-4.711646	0.0011047	0.0595	YES	-0.523506
MRPL48	-0.356531	9.2626797	-4.715496	0.0010987	0.05939	YES	-0.518174
WDSUB1	-0.4292	9.397648	-4.723883	0.0010859	0.05892	YES	-0.506565
HADH	-0.446962	11.714652	-4.737728	0.001065	0.058	YES	-0.487428
ISY1	0.3388671	8.8440637	4.7387269	0.0010635	0.058	YES	-0.486048
STX2	-0.328032	8.0682948	-4.744204	0.0010554	0.05791	YES	-0.478486
IDI1	-0.556665	9.4040546	-4.748597	0.0010489	0.05777	YES	-0.472425
TMEM14C	-0.334904	11.304382	-4.769372	0.0010188	0.05633	YES	-0.4438
PPP2R1A	0.5262479	11.600373	4.7772173	0.0010077	0.05592	YES	-0.433009
SNORD89	-0.372818	7.9898412	-4.792995	0.0009858	0.05492	YES	-0.411336
ZNF248	-0.392069	7.804363	-4.799055	0.0009775	0.05466	YES	-0.403022
LOC441087	0.5820235	11.141341	4.8014063	0.0009743	0.05466	YES	-0.399798
DMTF1	-0.364608	8.7192117	-4.806575	0.0009673	0.05451	YES	-0.392714
TAF1D	-0.364138	7.4086144	-4.807582	0.000966	0.05451	YES	-0.391335
LINC00158	-0.385507	9.3685153	-4.81434	0.0009569	0.05434	YES	-0.382078
CWC15	-0.380458	9.9146333	-4.816212	0.0009544	0.05434	YES	-0.379517
MRPS31	-0.457644	10.735897	-4.819221	0.0009505	0.05434	YES	-0.375399
TIPIN	-0.46746	8.5292614	-4.820027	0.0009494	0.05434	YES	-0.374296
MPLKIP	-0.341081	8.5807846	-4.839774	0.0009237	0.05329	YES	-0.347312
KLF6	0.413744	8.7254114	4.8402664	0.0009231	0.05329	YES	-0.34664
CCNH	-0.477606	8.8985909	-4.844983	0.0009171	0.05329	YES	-0.340205
LSM5	-0.463527	10.209745	-4.873794	0.0008812	0.05145	YES	-0.300971
RPS6KA4	0.3915727	8.5206334	4.8745692	0.0008803	0.05145	YES	-0.299917
TRMT12	-0.330176	9.3414136	-4.876447	0.000878	0.05145	YES	-0.297365
WASF3	-0.357532	8.2229073	-4.876552	0.0008779	0.05145	YES	-0.297222
ZNF22	-0.414096	10.71386	-4.87705	0.0008773	0.05145	YES	-0.296546
TEX30	-0.464367	8.6780398	-4.877078	0.0008772	0.05145	YES	-0.296507
PSTK	-0.32191	7.5424303	-4.879907	0.0008738	0.05145	YES	-0.292664
SNORD65	-0.590326	8.4419144	-4.888494	0.0008635	0.05145	YES	-0.281005
BRIX1	-0.428554	10.64152	-4.890184	0.0008615	0.05145	YES	-0.278711
SNORA61	-0.932133	10.091521	-4.89128	0.0008602	0.05145	YES	-0.277225
MORC3	-0.400246	7.573608	-4.895479	0.0008552	0.05145	YES	-0.271529
SNORD104	-0.602988	9.1415894	-4.896529	0.000854	0.05145	YES	-0.270105

NAT10	0.3662611	11.357313	4.897594	0.0008527	0.05145	YES	-0.268661
NUPL2	-0.436375	9.6201148	-4.902726	0.0008467	0.05145	YES	-0.261706
WDR19	-0.621527	8.9748959	-4.904188	0.000845	0.05145	YES	-0.259725
BEND5	0.3067965	7.5908806	4.9076475	0.000841	0.05145	YES	-0.255041
C5	-0.468009	7.8295809	-4.920239	0.0008266	0.05145	YES	-0.238005
DICER1-AS1	-0.346426	7.2262328	-4.921045	0.0008256	0.05145	YES	-0.236915
SND1	0.579278	10.903269	4.9301086	0.0008154	0.0513	YES	-0.224669
EXOSC8	-0.507813	9.7683643	-4.936542	0.0008082	0.05107	YES	-0.215985
LYSMD2	-0.382056	10.138742	-4.93866	0.0008059	0.05107	YES	-0.213127
SRRM2	0.5000103	10.514269	4.9403282	0.000804	0.05107	YES	-0.210877
GEMIN2	-0.406735	9.2141331	-4.946441	0.0007973	0.05104	YES	-0.202635
DDIT3	-0.478924	8.1162757	-4.946661	0.0007971	0.05104	YES	-0.202338
ZRANB2	-0.504798	9.9352222	-4.947705	0.000796	0.05104	YES	-0.200932
MYO1G	0.5001725	8.0657041	4.9493752	0.0007941	0.05104	YES	-0.198681
BPGM	-0.363465	7.3578006	-4.951964	0.0007913	0.05104	YES	-0.195194
PRPF8	0.6933644	11.394632	4.9586558	0.0007841	0.05104	YES	-0.186184
RUVBL2	0.4695159	9.9361397	4.9596986	0.000783	0.05104	YES	-0.184781
SLC35C1	0.4753655	7.9307132	4.9684523	0.0007736	0.05104	YES	-0.173008
TANK	-0.417884	8.6192387	-4.9926	0.0007485	0.04966	YES	-0.140594
SNORA25	-0.542551	8.6751726	-5.003106	0.0007379	0.04917	YES	-0.126521
SP1	0.3735392	8.7886735	5.0195962	0.0007215	0.0483	YES	-0.104469
NUP93	0.4917586	10.806368	5.0252484	0.000716	0.04815	YES	-0.096921
IFT20	-0.40928	7.8890696	-5.027347	0.0007139	0.04815	YES	-0.094119
POTEKP	0.5337792	9.9776267	5.0275615	0.0007137	0.04815	YES	-0.093833
TMEM60	-0.426252	9.5743307	-5.029444	0.0007119	0.04815	YES	-0.09132
UQCRBP1	-0.345038	12.79728	-5.036918	0.0007047	0.04815	YES	-0.081352
DNAAF5	0.6644551	10.453932	5.0386384	0.000703	0.04815	YES	-0.079058
KDM3B	0.3388409	9.0887502	5.0392966	0.0007024	0.04815	YES	-0.078181
PCMTD2	-0.37026	8.6667694	-5.043297	0.0006986	0.04815	YES	-0.07285
ISG20	-0.491343	11.383279	-5.049989	0.0006923	0.04815	YES	-0.06394
PAPD5	0.6077828	8.4877056	5.0503521	0.000692	0.04815	YES	-0.063456
NFKB2	0.7589936	8.4887625	5.060474	0.0006825	0.04812	YES	-0.049992
TAF9	-0.587696	8.2610093	-5.061069	0.000682	0.04812	YES	-0.049201
SLC25A32	-0.336248	7.1814766	-5.064351	0.0006789	0.04812	YES	-0.044839
CD58	-0.338246	9.455336	-5.066877	0.0006766	0.04812	YES	-0.041483
AICDA	-0.409942	8.0571345	-5.085401	0.0006599	0.04744	YES	-0.016904
GINS2	-0.351582	10.509941	-5.085872	0.0006595	0.04744	YES	-0.016279
EBI3	0.5972257	11.906634	5.0878922	0.0006577	0.04744	YES	-0.013603
ETV6	0.448564	9.7630103	5.0973879	0.0006493	0.04738	YES	-0.001028
PPP1R14B	0.4503475	11.678834	5.0990812	0.0006478	0.04738	YES	0.0012123
ATF4	-0.385225	10.050151	-5.09981	0.0006472	0.04738	YES	0.0021764
THOC1	-0.457735	9.2128962	-5.102862	0.0006445	0.04738	YES	0.006214
BAG6	0.3374617	8.5243999	5.1140964	0.0006348	0.04727	YES	0.0210619

BTN2A1	-0.371833	8.4087097	-5.127055	0.0006238	0.04669	YES	0.0381636
SNORD12	-0.44955	7.6025168	-5.128768	0.0006224	0.04669	YES	0.0404218
KBTBD3	-0.387636	7.3508154	-5.141554	0.0006118	0.04626	YES	0.0572654
MRPL1	-0.509549	9.2720277	-5.144302	0.0006095	0.04626	YES	0.0608821
PI4KB	0.36528	9.0878111	5.1488194	0.0006058	0.04626	YES	0.0668249
SSBP2	-0.330411	9.8587563	-5.161543	0.0005956	0.04575	YES	0.0835447
NDUFA4	-0.415684	13.103926	-5.181244	0.0005801	0.0448	YES	0.109383
SAP130	0.3368908	8.9322178	5.1830671	0.0005787	0.0448	YES	0.1117711
DAD1P1	-0.358676	7.2159567	-5.196126	0.0005687	0.04438	YES	0.128859
ITGB3BP	-0.667381	8.9539025	-5.203249	0.0005633	0.0442	YES	0.1381684
SDHAP2	-0.72574	9.3074641	-5.212281	0.0005565	0.04391	YES	0.1499609
ZNHIT3	-0.513689	10.032666	-5.218323	0.0005521	0.04379	YES	0.1578423
CLECL1	-0.444818	11.36147	-5.220947	0.0005501	0.04379	YES	0.1612644
ID2	-0.336352	8.2813086	-5.227898	0.0005451	0.04371	YES	0.1703203
BOD1	-0.396146	9.9886112	-5.232724	0.0005416	0.04367	YES	0.1766048
SUGP2	-0.411263	9.1687434	-5.23539	0.0005397	0.04367	YES	0.1800741
TRAF1	0.3582649	8.5864986	5.2423193	0.0005347	0.0436	YES	0.1890861
EAF2	-0.43873	8.8896986	-5.24388	0.0005336	0.0436	YES	0.1911145
EEF1E1	-0.473503	11.453411	-5.259479	0.0005227	0.0431	YES	0.2113714
ITGAE	-0.421615	10.102029	-5.267264	0.0005173	0.0429	YES	0.2214665
SNORA50C	-0.595192	8.1897731	-5.268285	0.0005166	0.0429	YES	0.2227889
PIK3CG	0.6522678	7.7920666	5.2689951	0.0005161	0.0429	YES	0.2237094
ARHGEF2	0.4167366	11.348841	5.2779761	0.00051	0.0429	YES	0.2353402
SLC2A3	0.3445208	8.9852059	5.2827471	0.0005068	0.0429	YES	0.2415136
EHBP1L1	0.4032896	8.2230911	5.2873414	0.0005037	0.0429	YES	0.247455
MKI67	0.3921667	7.3967036	5.2885492	0.0005029	0.0429	YES	0.2490163
MAP3K8	-0.486557	8.6573311	-5.294333	0.0004991	0.0429	YES	0.2564904
MAT2A	-0.369576	12.035212	-5.308434	0.0004899	0.04256	YES	0.2746886
SUB1	-0.560128	9.1270091	-5.309958	0.0004889	0.04256	YES	0.2766529
ATP5C1	-0.412005	11.736363	-5.315095	0.0004856	0.04256	YES	0.2832728
ZBED1	0.6241785	10.212406	5.3169078	0.0004844	0.04256	YES	0.2856087
PDCD4	0.4619486	9.6651773	5.3189558	0.0004831	0.04256	YES	0.2882462
FAM96A	-0.502383	11.111433	-5.336711	0.000472	0.04226	YES	0.3110845
CTSD	0.3692866	7.7772258	5.3405638	0.0004696	0.04226	YES	0.3160342
NSMCE4A	-0.553445	11.115031	-5.346933	0.0004657	0.04221	YES	0.3242111
CDK1	-0.666409	9.4944903	-5.351811	0.0004627	0.0422	YES	0.3304685
FASTKD3	-0.389075	9.3110591	-5.368483	0.0004527	0.04155	YES	0.3518266
RANGAP1	0.4800637	10.987176	5.3709337	0.0004512	0.04155	YES	0.3549629
ASAP1	0.4536138	8.7177651	5.3732848	0.0004498	0.04155	YES	0.3579705
HLA-DQB1	0.4949669	8.8595796	5.3802721	0.0004457	0.04155	YES	0.3669034
CGRRF1	-0.440672	8.4435176	-5.384096	0.0004435	0.04155	YES	0.3717882
TRMT11	-0.477678	7.6683845	-5.393168	0.0004383	0.04154	YES	0.3833695
HSPB11	-0.497106	9.9509908	-5.39551	0.0004369	0.04154	YES	0.3863566

RNU1-1	-0.67371	9.961522	-5.411971	0.0004276	0.04106	YES	0.4073308
SNORD48	-0.489822	7.3691522	-5.436397	0.0004142	0.04004	YES	0.4383716
MIR22HG	-0.445737	7.1782393	-5.438718	0.000413	0.04004	YES	0.4413167
PTS	-0.361452	9.9183043	-5.453641	0.000405	0.03967	YES	0.4602286
RNVU1-18	-0.738527	9.6696206	-5.454129	0.0004048	0.03967	YES	0.4608468
AGO2	0.7571719	10.146226	5.4718586	0.0003956	0.03927	YES	0.4832678
ANKRD10	-0.525727	8.0154652	-5.474007	0.0003945	0.03927	YES	0.4859808
EVI2A	-0.495003	7.724784	-5.494606	0.0003841	0.03866	YES	0.5119607
PTPN6	0.4364409	7.8859434	5.499034	0.0003819	0.03866	YES	0.517537
ELOVL1	0.4134047	8.4105805	5.5083222	0.0003773	0.03851	YES	0.5292227
TMEM243	-0.368233	10.227993	-5.526142	0.0003688	0.0379	YES	0.5516033
MAD2L1	-0.420993	9.3900665	-5.526469	0.0003686	0.0379	YES	0.5520134
JCHAIN	-0.866104	12.419224	-5.535309	0.0003644	0.0379	YES	0.5630974
CCDC85A	-0.5284	7.5786387	-5.541541	0.0003615	0.0379	YES	0.5709032
SPSB3	-0.601872	8.856316	-5.543137	0.0003608	0.0379	YES	0.5729019
SH3TC1	0.4068222	9.7600569	5.5523341	0.0003565	0.0379	YES	0.5844082
MDC1	0.5089294	10.175879	5.5661433	0.0003503	0.03759	YES	0.6016596
POGK	0.3580158	10.356256	5.5695363	0.0003487	0.03759	YES	0.6058937
CCL4L1	0.4288711	8.8569659	5.580438	0.0003439	0.03746	YES	0.6194856
ORC3	-0.40724	8.831543	-5.586189	0.0003414	0.03746	YES	0.6266479
FAM216A	-0.486229	10.911917	-5.590305	0.0003396	0.03746	YES	0.6317711
TP53I13	-0.487316	9.0384487	-5.59416	0.0003379	0.03746	YES	0.6365663
SNHG12	-0.443299	8.0128264	-5.594613	0.0003377	0.03746	YES	0.6371297
MYH9	0.6388653	11.56802	5.5980828	0.0003362	0.03746	YES	0.6414444
CEP95	-0.454305	9.3783173	-5.6197	0.000327	0.03729	YES	0.6682796
HMGB2	-0.377559	10.495505	-5.640136	0.0003186	0.03662	YES	0.6935802
CXCR5	0.4796772	8.5478755	5.6425731	0.0003176	0.03662	YES	0.6965929
GLRX	-0.583872	11.539794	-5.648434	0.0003153	0.03662	YES	0.7038342
SNORD36A	-0.611356	8.681811	-5.666435	0.0003081	0.03627	YES	0.7260419
SERF1B	-0.400939	9.2788966	-5.668761	0.0003072	0.03627	YES	0.7289082
UHRF2	-0.527702	8.0461414	-5.682925	0.0003018	0.0361	YES	0.7463402
ATP5L	-0.420292	11.438089	-5.697532	0.0002962	0.03573	YES	0.7642847
TXLNGY	-0.51501	8.7834139	-5.706553	0.0002929	0.03562	YES	0.7753511
BRK1	-0.383344	9.3742239	-5.709023	0.000292	0.03562	YES	0.7783779
ASXL2	0.6845307	9.0539352	5.7094124	0.0002918	0.03562	YES	0.7788554
METTL3	-0.441858	9.9958611	-5.736784	0.0002819	0.03517	YES	0.8123396
ELL3	-0.428636	9.7619756	-5.741627	0.0002802	0.03517	YES	0.8182512
UNC50	-0.43188	9.8828322	-5.751613	0.0002767	0.03512	YES	0.8304306
SNHG1	-0.687715	10.718127	-5.770268	0.0002703	0.0346	YES	0.853141
C2orf49	-0.372874	8.1641635	-5.791755	0.0002631	0.03398	YES	0.8792307
ARGLU1	-0.553789	10.971954	-5.792826	0.0002627	0.03398	YES	0.8805287
SNORA24	-0.558906	8.3407937	-5.794749	0.0002621	0.03398	YES	0.8828599
TMEM126B	-0.683783	11.253286	-5.810747	0.0002569	0.03398	YES	0.90223

ACYP1	-0.405321	8.325914	-5.818698	0.0002544	0.03398	YES	0.911843
SNHG15	-0.452989	10.752929	-5.833938	0.0002496	0.03373	YES	0.9302395
SDHAF3	-0.494754	9.7140774	-5.846221	0.0002458	0.03352	YES	0.9450395
RHOG	0.7238671	11.174461	5.85294	0.0002437	0.03352	YES	0.9531257
MKKS	-0.459866	8.9941064	-5.866226	0.0002397	0.03332	YES	0.9690942
RAD51AP1	-0.552967	9.8598414	-5.875563	0.000237	0.03326	YES	0.9803009
NIF3L1	-0.418852	10.738871	-5.910288	0.000227	0.03216	YES	1.0218572
SNORA1	-0.552393	7.3997773	-5.934255	0.0002204	0.03153	YES	1.0504289
MRPS28	-0.510721	10.636652	-5.944656	0.0002176	0.03144	YES	1.0628019
TRAPPC2B	-0.400099	7.9197725	-5.951602	0.0002157	0.03144	YES	1.0710542
SNORD51	-0.393698	7.2124561	-6.005917	0.0002018	0.02975	YES	1.1353323
SNORD76	-0.457114	7.1536354	-6.010988	0.0002005	0.02975	YES	1.1413112
FAM129A	0.8150026	8.9510854	6.0287154	0.0001962	0.02953	YES	1.1621775
DNAAF2	-0.521671	9.4146744	-6.037642	0.0001941	0.02951	YES	1.1726672
UBD	-0.495907	7.357673	-6.040874	0.0001933	0.02951	YES	1.1764617
G6PD	0.4355426	8.8765821	6.0439209	0.0001926	0.02951	YES	1.1800375
TSEN2	-0.503835	9.7622696	-6.044844	0.0001924	0.02951	YES	1.1811207
CENPK	-0.479075	8.5882372	-6.046197	0.0001921	0.02951	YES	1.1827079
RSL24D1	-0.682832	12.477425	-6.08039	0.0001843	0.02951	YES	1.222729
PRB1	0.3907772	6.9745009	6.0804638	0.0001842	0.02951	YES	1.2228146
SNORA74B	-0.427681	7.6675088	-6.081893	0.0001839	0.02951	YES	1.2244841
MYC	-0.485081	11.391878	-6.136338	0.0001722	0.02856	YES	1.2878271
TPRKB	-0.535309	8.2085295	-6.165356	0.0001663	0.02789	YES	1.321403
ACTR6	-0.618745	9.6674066	-6.173235	0.0001647	0.02789	YES	1.3304968
GTF2B	-0.424353	8.8283166	-6.173784	0.0001646	0.02789	YES	1.3311311
LSM8	-0.475911	8.2455291	-6.180087	0.0001633	0.02789	YES	1.338399
ZNF689	0.4630378	9.6559331	6.1812416	0.0001631	0.02789	YES	1.3397296
CHEK2	-0.391903	8.580137	-6.196685	0.0001601	0.02789	YES	1.3575098
TMEM163	-0.390701	7.288085	-6.197895	0.0001599	0.02789	YES	1.3589011
SNORD36C	-0.947753	8.700008	-6.199493	0.0001596	0.02789	YES	1.360739
ATP6V1G1	-0.524695	10.689014	-6.222326	0.0001553	0.02789	YES	1.3869508
RGCC	-0.4338	9.5557428	-6.227856	0.0001542	0.02789	YES	1.3932869
ZNF318	0.5993973	8.7113799	6.2491343	0.0001504	0.02789	YES	1.4176257
MED31	-0.483675	9.0779595	-6.279299	0.0001451	0.02786	YES	1.4520123
SNHG5	-0.565179	13.800818	-6.328213	0.0001369	0.02664	YES	1.5074823
UQCRC1	0.4514989	10.664826	6.3415983	0.0001347	0.02657	YES	1.5225998
RNU4-2	-0.66572	7.8291551	-6.348294	0.0001337	0.02657	YES	1.5301521
MOK	-0.454027	7.9740171	-6.39153	0.000127	0.02575	YES	1.5787569
COA5	-0.680893	8.9292658	-6.392519	0.0001269	0.02575	YES	1.5798652
CCL22	0.7713921	10.636131	6.3961432	0.0001264	0.02575	YES	1.5839269
MYADM	0.534431	7.8768209	6.4547984	0.000118	0.02495	YES	1.6493839
CHAC2	-0.52962	7.9931422	-6.454867	0.000118	0.02495	YES	1.64946
BLOC1S1	0.7001341	9.2876887	6.4865034	0.0001137	0.02476	YES	1.6845547

RGS13	-0.810284	8.6842194	-6.5176	0.0001096	0.02425	YES	1.718908
ITGB2	0.553332	10.849794	6.5193725	0.0001094	0.02425	YES	1.7208615
MRPL50	-0.519405	10.597815	-6.577198	0.0001023	0.02334	YES	1.7843528
YAE1D1	-0.49368	8.547683	-6.630881	9.62E-05	0.02229	YES	1.8428604
SNORD3D	-0.876858	9.4582006	-6.655533	9.35E-05	0.02202	YES	1.8695896
SELENOK	-0.551277	9.5369322	-6.656857	9.34E-05	0.02202	YES	1.8710226
SNORA63	-0.585687	8.4396946	-6.667298	9.23E-05	0.02202	YES	1.8823154
COMMD10	-0.565162	8.8460551	-6.699652	8.90E-05	0.022	YES	1.9172076
SNORA3B	-0.644029	8.2767221	-6.726209	8.63E-05	0.02172	YES	1.945737
TRIM55	-0.495259	8.3770196	-6.735796	8.54E-05	0.02172	YES	1.9560113
ANAPC10	-0.578883	9.5334307	-6.760516	8.30E-05	0.02164	YES	1.9824421
MAL	-0.454485	7.2273943	-6.766854	8.24E-05	0.02164	YES	1.9892055
SNORD16	-0.676642	8.8043606	-6.814263	7.81E-05	0.02112	YES	2.0396124
SNORA13	-0.496292	7.4685372	-6.857801	7.44E-05	0.02049	YES	2.0856249
SNORA16A	-0.712541	7.9255152	-6.859514	7.43E-05	0.02049	YES	2.0874301
ANKRD49	-0.611076	8.7737503	-6.867572	7.36E-05	0.02049	YES	2.0959144
XRCC5	0.4317679	10.340428	6.8743298	7.30E-05	0.02049	YES	2.1030237
FCER2	0.6710184	8.9545086	6.877008	7.28E-05	0.02049	YES	2.1058391
RNVU1-7	-0.679256	9.2301519	-6.923082	6.92E-05	0.02049	YES	2.1541192
SNORA41	-0.676812	8.0543861	-6.938362	6.80E-05	0.02049	YES	2.1700657
CKS2	-0.551062	11.723966	-6.943089	6.77E-05	0.02049	YES	2.1749923
DNAJC12	-0.588874	10.022727	-6.983797	6.47E-05	0.02049	YES	2.2172909
SF3A2	0.5866122	10.620239	7.1370426	5.47E-05	0.01814	YES	2.3744886
COX7B	-0.88035	11.416976	-7.165182	5.30E-05	0.018	YES	2.4030073
FSCN1	0.7277896	9.113036	7.2280451	4.95E-05	0.01722	YES	2.4663327
SNORD21	-0.527079	7.6412704	-7.324743	4.47E-05	0.0159	YES	2.5627141
SF3B6	-0.627829	11.661091	-7.414948	4.06E-05	0.01481	YES	2.6515137
TCTN1	-0.727031	10.477073	-7.439049	3.96E-05	0.01481	YES	2.6750598
SCARNA23	-0.64138	7.2082474	-7.44388	3.94E-05	0.01481	YES	2.6797708
MCEE	-0.743715	9.4314124	-7.576559	3.43E-05	0.01351	YES	2.8079697
WDR61	-0.549737	10.870402	-7.615868	3.29E-05	0.01333	YES	2.84552
RPL26	-0.651489	13.763623	-7.672109	3.10E-05	0.01294	YES	2.8989045
SNORA33	-0.757217	8.7634046	-7.728827	2.93E-05	0.01257	YES	2.9523409
SCARNA14	-0.659016	7.7855925	-7.743435	2.88E-05	0.01257	YES	2.9660387
PRPF4B	-0.74011	7.9952927	-7.77376	2.80E-05	0.01257	YES	2.9943898
MITD1	-0.616446	9.5625951	-7.885699	2.50E-05	0.01175	YES	3.0980605
RNY5	-0.664229	7.6950399	-8.013834	2.19E-05	0.01068	YES	3.2148622
CHMP5	-0.678282	9.9665759	-8.024106	2.17E-05	0.01068	YES	3.2241395
CCL3L1	0.6162609	10.280891	8.0880302	2.04E-05	0.01063	YES	3.2815964
HAT1	-0.546255	9.1992164	-8.14988	1.92E-05	0.01037	YES	3.3367285
SNORA27	-1.067957	8.3579291	-8.281348	1.69E-05	0.00947	YES	3.4524356
DUSP5	0.6123639	9.838046	8.3262486	1.62E-05	0.00943	YES	3.4914965
SNORA8	-0.743836	8.246286	-8.367285	1.55E-05	0.00943	YES	3.5269943

RGS1	-0.634638	10.293198	-8.399062	1.51E-05	0.00943	YES	3.5543515
MTIF3	-0.520173	8.5152806	-8.433822	1.46E-05	0.00943	YES	3.5841461
SNORD3A	-0.643196	9.1000021	-8.505939	1.36E-05	0.00943	YES	3.6455296
SCARNA8	-0.545253	7.4233293	-8.603237	1.24E-05	0.00905	YES	3.7274324
SNORA57	-0.578558	7.9524605	-8.695562	1.14E-05	0.00873	YES	3.8041892
COMMD6	-0.843137	12.123573	-8.790416	1.04E-05	0.00844	YES	3.8820903
CD69	-0.74732	8.1979068	-8.824551	1.01E-05	0.00844	YES	3.9098892
VTRNA2-1	-0.687502	7.3967544	-8.875029	9.63E-06	0.00844	YES	3.9507721
SNORA9	-0.772002	7.8692016	-9.072121	8.05E-06	0.00783	YES	4.107851
CCL3L3	0.8057364	11.440983	9.0798855	7.99E-06	0.00783	YES	4.113957
CLK1	-0.745085	8.0730354	-9.439159	5.81E-06	0.00652	YES	4.3898911
ABHD3	-0.715211	8.7545702	-9.643931	4.87E-06	0.00592	YES	4.5415385
SNORA12	-0.745501	8.7150401	-9.821537	4.18E-06	0.00555	YES	4.6698808
SNHG9	-1.05299	9.4795853	-10.17843	3.11E-06	0.00454	YES	4.9191566
CCL3	0.8998384	10.11144	10.643212	2.14E-06	0.00347	YES	5.2273472
SCARNA18	-1.020895	8.0639737	-10.7375	1.99E-06	0.00347	YES	5.2877008
RNU6ATAC	-0.698522	7.2898911	-10.76951	1.94E-06	0.00347	YES	5.3080291
SNORA18	-0.806535	8.7285484	-10.95768	1.68E-06	0.00347	YES	5.4259004
LARP7	-0.817771	9.2816381	-11.00041	1.62E-06	0.00347	YES	5.4522846
SERPINA9	-0.810071	10.215954	-11.49072	1.12E-06	0.00347	YES	5.7452477
C8orf59	-1.019667	11.216952	-12.28904	6.34E-07	0.00308	YES	6.1861214
RNU11	-1.002437	7.8626237	-14.04054	2.02E-07	0.00147	YES	7.0177043
MIR155HG	-1.15756	10.65844	-15.14821	1.05E-07	0.00147	YES	7.4625962
EGR1	0.4419517	8.3106546	3.7960605	0.00425	0.1		-1.855422
NDUFAF2	-0.478048	11.167739	-3.795288	0.0042551	0.1		-1.856595
SNORD35A	-0.327639	7.6435702	-3.787069	0.0043091	0.10111		-1.869083
ZNF827	0.3595792	8.7624442	3.7840864	0.0043289	0.10141		-1.873617
SNORD18A	-0.352872	6.971406	-3.782894	0.0043369	0.10144		-1.87543
HDAC1	-0.256511	12.808851	-3.775866	0.004384	0.10222		-1.886119
RNF40	0.4456227	8.4802376	3.7757914	0.0043845	0.10222		-1.886232
MEF2C	0.6312965	8.3189746	3.7701301	0.0044228	0.10248		-1.894847
ACTRT3	-0.243858	6.9222421	-3.770031	0.0044235	0.10248		-1.894997
GON7	-0.341864	9.9844282	-3.769923	0.0044242	0.10248		-1.895162
IMPA2	0.2746193	9.7146528	3.769349	0.0044281	0.10248		-1.896036
ARHGDIA	0.4947843	10.444214	3.7679821	0.0044375	0.10248		-1.898116
VARS	0.5465614	10.639671	3.7679465	0.0044377	0.10248		-1.898171
HUWE1	0.3339934	8.0873384	3.7639923	0.0044648	0.1028		-1.904191
ANAPC4	-0.395955	9.5518067	-3.763866	0.0044657	0.1028		-1.904384
CCNK	0.464047	10.10724	3.758078	0.0045056	0.10344		-1.913199
DLEU1	-0.324935	8.8264929	-3.757796	0.0045076	0.10344		-1.913629
EIF6	0.3020389	9.6849914	3.7551605	0.0045259	0.1036		-1.917644
HS1BP3	0.2545852	7.2092496	3.7547425	0.0045289	0.1036		-1.918281
LARP4B	0.2769079	10.234685	3.751847	0.0045491	0.10378		-1.922694

VPS37B	0.3135276	7.1462202	3.7515749	0.004551	0.10378	-1.923109
WDR92	-0.265334	8.291058	-3.749723	0.004564	0.10382	-1.925931
KAT6A	0.4068858	8.1985415	3.7490203	0.004569	0.10382	-1.927003
EIF2AK2	0.3912911	8.5778551	3.7483389	0.0045738	0.10382	-1.928042
APOBEC3C	0.2558127	7.5444498	3.7470547	0.0045828	0.10386	-1.93
UBA3	-0.31021	8.5626743	-3.74341	0.0046087	0.10428	-1.935558
RNASEH2B	-0.444974	8.9350073	-3.7375	0.0046509	0.10508	-1.944575
NUDCD1	-0.290629	7.4672408	-3.733773	0.0046777	0.10552	-1.950262
CRBN	-0.355869	8.0866461	-3.731479	0.0046943	0.10573	-1.953764
BTAF1	-0.481782	9.8141083	-3.730461	0.0047017	0.10573	-1.955319
SPTAN1	0.5723541	8.6211212	3.7283471	0.004717	0.10592	-1.958546
WARS	0.2946562	10.869601	3.7264615	0.0047308	0.10606	-1.961426
G6PC3	0.4420116	8.6717613	3.7252144	0.0047399	0.1061	-1.96333
TPM4	0.4274736	8.2023691	3.7222886	0.0047614	0.10624	-1.9678
KIAA0922	0.3665419	9.939157	3.7210299	0.0047707	0.10624	-1.969723
ACER3	0.2812193	7.9082018	3.718702	0.0047878	0.10624	-1.97328
HIST3H2A	-0.260033	8.304618	-3.718082	0.0047924	0.10624	-1.974228
RWDD2A	-0.256609	8.247291	-3.717997	0.0047931	0.10624	-1.974356
HLA-DRB4	0.243261	10.193344	3.7176942	0.0047953	0.10624	-1.97482
RAI1	0.327814	8.011584	3.7173588	0.0047978	0.10624	-1.975333
GADD45A	-0.242296	9.1683087	-3.716464	0.0048044	0.10624	-1.976699
CAT	-0.352843	9.0384576	-3.711622	0.0048405	0.10646	-1.984102
USP5	0.5332104	10.879084	3.7103855	0.0048498	0.10646	-1.985993
ASGR1	-0.34974	7.0430754	-3.709436	0.0048569	0.10646	-1.987445
OCIAD2	-0.287046	9.8228327	-3.709146	0.0048591	0.10646	-1.987889
IFRD1	-0.344014	8.0252463	-3.707901	0.0048685	0.10646	-1.989793
GARS	0.4334343	12.418663	3.7043197	0.0048955	0.10646	-1.99527
COX6C	-0.260141	13.238064	-3.701928	0.0049137	0.10646	-1.998929
NDE1	0.4698121	9.1881609	3.7013102	0.0049184	0.10646	-1.999875
SDAD1	0.3865539	10.624253	3.7007895	0.0049223	0.10646	-2.000672
GMFG	-0.313548	9.3566689	-3.700238	0.0049265	0.10646	-2.001515
EXOC3	0.3388002	7.7544327	3.7000985	0.0049276	0.10646	-2.001729
AMY1B	0.3092182	9.4357186	3.6991854	0.0049346	0.10646	-2.003127
PPP2R5E	0.3625787	10.384537	3.6971214	0.0049503	0.10646	-2.006286
TDRD7	-0.33671	8.1101837	-3.696386	0.004956	0.10646	-2.007411
ZFAND4	-0.305054	7.1111458	-3.695827	0.0049603	0.10646	-2.008267
TTC19	0.2930891	9.727729	3.69573	0.004961	0.10646	-2.008415
GTF2H1	-0.310626	7.9102727	-3.695613	0.0049619	0.10646	-2.008595
KCNH6	0.3320582	9.5612836	3.6951227	0.0049657	0.10646	-2.009345
AP3M1	0.3046704	9.3296015	3.6945358	0.0049702	0.10646	-2.010244
R3HDM4	0.5239103	9.8931685	3.6944339	0.004971	0.10646	-2.0104
SFI1	-0.252273	7.3442922	-3.69436	0.0049716	0.10646	-2.010513
DSCR4	0.3020175	6.9441223	3.6939754	0.0049745	0.10646	-2.011102

LMNB2	0.4119857	11.045157	3.6902804	0.0050031	0.10691	-2.01676
VPS33A	0.2371529	8.5988576	3.686828	0.0050299	0.10722	-2.022048
EEF1G	0.380363	14.073347	3.6861653	0.0050351	0.10722	-2.023063
PIGF	-0.361195	8.1728348	-3.683702	0.0050543	0.10722	-2.026836
POLR2K	-0.532492	7.3720511	-3.683251	0.0050579	0.10722	-2.027528
PYGB	0.3577658	8.1199143	3.6827378	0.0050619	0.10722	-2.028314
TNFRSF9	0.2539498	8.257731	3.6818567	0.0050688	0.10722	-2.029664
HAUS1	-0.611766	9.2001715	-3.681855	0.0050688	0.10722	-2.029667
NUP54	-0.315102	9.1737338	-3.680038	0.0050831	0.10731	-2.032451
KCNMB1	0.2609296	8.3787313	3.6794123	0.005088	0.10731	-2.033411
RHBDL3	0.2950268	7.0268291	3.677121	0.0051061	0.10754	-2.036923
ZFAND6	-0.288965	8.5074688	-3.676007	0.005115	0.10757	-2.03863
PELP1	0.5655339	9.2374393	3.6726732	0.0051415	0.10797	-2.043742
C12orf60	-0.268479	7.5791948	-3.667635	0.0051818	0.10833	-2.05147
CALM2	-0.264188	12.866431	-3.667581	0.0051823	0.10833	-2.051552
PLBD1	0.3139925	6.9962999	3.6646354	0.005206	0.10833	-2.056072
CEP350	0.5371487	8.422191	3.6640288	0.0052109	0.10833	-2.057003
PRELID1	0.4837655	11.422617	3.6626703	0.0052219	0.10833	-2.059087
MRPL46	-0.325717	10.584073	-3.66074	0.0052376	0.10833	-2.06205
BYSL	0.2602848	9.6396352	3.6606646	0.0052382	0.10833	-2.062166
WDR83OS	-0.275986	10.625763	-3.658992	0.0052518	0.10833	-2.064733
HNRNPD	0.2740411	13.167814	3.6577833	0.0052617	0.10833	-2.066588
NKRF	0.3986564	8.7218823	3.6569419	0.0052686	0.10833	-2.06788
SENP2	0.2842737	8.7692887	3.6569056	0.0052689	0.10833	-2.067936
ZYX	0.3240813	8.2604197	3.6564454	0.0052726	0.10833	-2.068642
ZBTB32	0.3135219	8.9563234	3.6555207	0.0052802	0.10833	-2.070062
CD84	0.4184112	7.7229478	3.6555145	0.0052803	0.10833	-2.070072
SNORD15B	-0.267646	7.6657799	-3.654892	0.0052854	0.10833	-2.071028
MTMR9	0.2812968	8.6395068	3.6541743	0.0052913	0.10833	-2.07213
ZNF791	0.2620805	7.8955782	3.6537559	0.0052947	0.10833	-2.072772
HLA-A	0.3886923	11.947441	3.6534277	0.0052974	0.10833	-2.073276
PSMD3	0.2926239	8.4249165	3.6515488	0.0053129	0.10833	-2.076162
FASTK	-0.247907	8.4257112	-3.65148	0.0053135	0.10833	-2.076267
ERCC2	0.2343561	7.8153929	3.651006	0.0053174	0.10833	-2.076995
TECR	0.4233953	10.821056	3.6486679	0.0053367	0.10833	-2.080587
RNU4-1	-0.330558	7.0683384	-3.648376	0.0053392	0.10833	-2.081036
ZNF674	-0.353707	13.829353	-3.647249	0.0053485	0.10833	-2.082766
FBXO34	-0.266433	8.6829564	-3.64716	0.0053493	0.10833	-2.082904
CCDC136	-0.319071	7.5359204	-3.646484	0.0053549	0.10833	-2.083943
RPF2	-0.292772	10.832032	-3.64599	0.005359	0.10833	-2.0847
ESYT2	0.2543539	9.9986228	3.6433567	0.005381	0.10852	-2.088748
PPBP	0.2850231	7.3524417	3.643067	0.0053834	0.10852	-2.089193
PHB	-0.28261	11.043476	-3.640498	0.005405	0.10879	-2.093141

SRSF11	-0.442763	8.2507419	-3.639131	0.0054165	0.10879	-2.095243
HSPA1B	0.4013759	10.719234	3.6388449	0.0054189	0.10879	-2.095682
SNORA21	-0.277704	7.4205271	-3.637907	0.0054268	0.1088	-2.097124
EP300	0.6368558	7.9774889	3.6351134	0.0054504	0.10897	-2.101419
UBAP2L	0.6650867	9.9580937	3.6350986	0.0054505	0.10897	-2.101442
VPS52	0.3458735	8.5829424	3.6340806	0.0054592	0.109	-2.103008
COMMD3	-0.290928	11.437472	-3.631421	0.0054818	0.1093	-2.107099
FBXL18	0.3120581	9.9229028	3.6291207	0.0055015	0.10954	-2.110636
SNAP23	-0.312077	8.5346123	-3.626892	0.0055206	0.10963	-2.114066
ZNF138	-0.230696	7.333379	-3.626837	0.0055211	0.10963	-2.11415
PDE6D	-0.365454	8.7645432	-3.624681	0.0055396	0.10985	-2.117467
POGLUT1	-0.276525	8.5001247	-3.622313	0.0055601	0.11011	-2.121112
PAQR3	-0.403688	9.0138144	-3.620801	0.0055732	0.11019	-2.123439
CDC42EP4	0.3541018	7.5617009	3.6198507	0.0055815	0.11019	-2.124902
RFXAP	-0.279438	8.4142378	-3.618812	0.0055905	0.11019	-2.126501
MFSD3	-0.39656	10.268883	-3.617277	0.0056039	0.11019	-2.128864
ACP1	-0.310175	11.105802	-3.614903	0.0056247	0.11019	-2.132519
ACYP2	-0.261037	7.7807528	-3.614431	0.0056288	0.11019	-2.133246
VLDLR-AS1	0.2482375	7.2854265	3.6143054	0.0056299	0.11019	-2.13344
INTS8	-0.634069	9.1316218	-3.613133	0.0056402	0.11019	-2.135245
TADA1	-0.324153	8.7045188	-3.6129	0.0056423	0.11019	-2.135604
TMEM8A	0.2817338	7.3721312	3.6125439	0.0056454	0.11019	-2.136153
SLC23A3	-0.317736	7.0931528	-3.611817	0.0056518	0.11019	-2.137272
COL4A3BP	0.3997615	7.9031484	3.6113433	0.005656	0.11019	-2.138002
SLCO2B1	0.282694	7.2280463	3.6085357	0.0056808	0.11019	-2.142327
CLEC2D	-0.439659	9.4776542	-3.608377	0.0056822	0.11019	-2.142572
DRAP1	0.4350049	10.240775	3.6081249	0.0056844	0.11019	-2.14296
FUNDC1	-0.333253	8.871318	-3.608052	0.0056851	0.11019	-2.143072
PDCD6	-0.286825	11.274448	-3.603541	0.0057252	0.11082	-2.150023
PAG1	0.3409333	8.3113372	3.5997274	0.0057594	0.11133	-2.155901
FEV	0.2638503	6.9706543	3.5978943	0.0057758	0.11151	-2.158727
CUL2	-0.278164	9.4830808	-3.593674	0.005814	0.11184	-2.165235
PIK3C3	-0.365623	7.8834068	-3.593255	0.0058178	0.11184	-2.165881
SLC39A1	0.3679066	9.8152778	3.5916289	0.0058326	0.11184	-2.168389
DCTN6	-0.242027	7.7882342	-3.591551	0.0058333	0.11184	-2.168509
ZC3H8	-0.285234	8.7015919	-3.589596	0.0058512	0.11184	-2.171526
NR2C2AP	-0.265549	8.6313203	-3.58955	0.0058516	0.11184	-2.171595
PTMA	-0.560334	11.370791	-3.589458	0.0058524	0.11184	-2.171738
UPP1	-0.338018	7.9397555	-3.589216	0.0058546	0.11184	-2.172112
RPP21	-0.272848	11.601251	-3.585327	0.0058903	0.11235	-2.178111
SLC15A3	0.2658359	8.7304137	3.5835383	0.0059068	0.11235	-2.180872
RILPL2	0.2455896	9.1842586	3.5822201	0.0059189	0.11235	-2.182906
UQCC1	-0.231134	8.9796739	-3.581525	0.0059254	0.11235	-2.183979

ZDHHC8	-0.349203	10.557523	-3.581469	0.0059259	0.11235	-2.184065
SEC61A2	-0.243513	7.2389512	-3.581331	0.0059272	0.11235	-2.184279
VAV2	0.2800451	7.917526	3.5798738	0.0059407	0.11242	-2.186528
WDR46	0.3232763	9.6033844	3.5785157	0.0059533	0.11242	-2.188624
UQCR10	-0.270011	9.5392289	-3.578382	0.0059546	0.11242	-2.188831
TEFM	-0.360695	8.9335847	-3.576676	0.0059705	0.11242	-2.191465
GUCY2C	-0.321034	6.9228941	-3.576105	0.0059758	0.11242	-2.192346
CBX5	0.3078363	9.2676088	3.5759709	0.005977	0.11242	-2.192553
CD19	0.3740256	11.535958	3.5746778	0.0059891	0.11245	-2.19455
ACAD11	-0.408386	9.3800794	-3.573444	0.0060007	0.11245	-2.196456
MAPKAPK2	0.3103595	8.693637	3.5728736	0.006006	0.11245	-2.197336
POLR2A	0.4682813	10.243685	3.5724939	0.0060096	0.11245	-2.197923
HIVEP1	0.2750385	7.8924342	3.5714071	0.0060198	0.1125	-2.199601
MTA1	0.5049938	10.046034	3.5665797	0.0060655	0.1132	-2.207059
GRK6	0.3065916	7.9917429	3.5646529	0.0060838	0.1134	-2.210036
TCTN3	0.3338896	8.2309915	3.5618144	0.0061108	0.11376	-2.214423
CCNL1	-0.399347	8.1861429	-3.559058	0.0061373	0.11392	-2.218683
NGDN	-0.28962	8.8446726	-3.557996	0.0061475	0.11392	-2.220325
SNORD139	-0.243383	7.5159435	-3.557809	0.0061493	0.11392	-2.220615
NSMCE1	0.2736583	9.5818719	3.557342	0.0061538	0.11392	-2.221336
POLR3A	0.3892065	9.3319845	3.5568296	0.0061587	0.11392	-2.222128
SCNN1D	-0.372358	7.7944815	-3.553619	0.0061897	0.11418	-2.227093
SNORA70	-0.480906	8.3809181	-3.553244	0.0061934	0.11418	-2.227672
CCNB1	-0.340385	8.6210627	-3.553002	0.0061957	0.11418	-2.228048
CLK2	-0.30848	8.3512509	-3.548398	0.0062406	0.11486	-2.235168
TNRC6A	0.2509197	7.4248842	3.5457746	0.0062663	0.11518	-2.239227
FTL	0.3110712	13.651777	3.541233	0.006311	0.11548	-2.246254
SNORD74	-0.286612	7.3451434	-3.540367	0.0063196	0.11548	-2.247594
NDUFAF4	-0.294688	9.0749689	-3.539317	0.00633	0.11548	-2.24922
EFHD2	0.3803828	11.56179	3.5391944	0.0063312	0.11548	-2.24941
MRPS35	-0.252609	10.37663	-3.538891	0.0063342	0.11548	-2.24988
AMY1C	0.4419132	11.540102	3.5386795	0.0063363	0.11548	-2.250207
GPN1	0.2306694	10.983092	3.5383321	0.0063398	0.11548	-2.250745
SNORD22	-0.374456	7.3684624	-3.537761	0.0063455	0.11548	-2.251629
PPP1R9B	0.2926908	7.3000531	3.5359264	0.0063637	0.11566	-2.254469
SRP19	-0.380059	9.7701059	-3.534907	0.0063739	0.11571	-2.256047
AKNA	0.5715212	8.8802093	3.5313884	0.0064092	0.1162	-2.261496
SULT1A4	-0.295693	7.7635394	-3.529054	0.0064327	0.11648	-2.265112
UQCRC2	-0.360619	9.924475	-3.527014	0.0064533	0.11671	-2.268271
CHCHD3	-0.267197	9.9532377	-3.52463	0.0064775	0.11692	-2.271964
POLE2	-0.420421	9.4337671	-3.523415	0.0064899	0.11692	-2.273848
RPS7	-0.291007	11.766391	-3.522813	0.006496	0.11692	-2.274779
TXNDC9	-0.610161	8.4498462	-3.522726	0.0064969	0.11692	-2.274914

RPL23AP5	-0.661616	9.9893838	-3.521683	0.0065075	0.11696	-2.276531
RHEB	-0.271565	10.917068	-3.520258	0.0065221	0.11696	-2.27874
CCDC90B	-0.277204	9.044254	-3.520156	0.0065231	0.11696	-2.278896
UBE3D	-0.315649	7.7697873	-3.518851	0.0065365	0.117	-2.28092
MICU2	-0.349529	9.7623997	-3.518352	0.0065416	0.117	-2.281693
CENPA	-0.249696	8.4802698	-3.517388	0.0065515	0.11704	-2.283187
SLC25A1	0.3457076	8.9775701	3.5141185	0.0065853	0.11728	-2.288256
LONP2	0.2174902	8.1749889	3.5129782	0.0065971	0.11728	-2.290024
PRRG2	-0.311891	7.5130299	-3.512476	0.0066023	0.11728	-2.290802
CLHC1	-0.417727	7.8406001	-3.511841	0.0066089	0.11728	-2.291787
CHKA	0.2500734	8.5435702	3.5118224	0.0066091	0.11728	-2.291816
RPS6KA1	0.2389313	8.4926355	3.5097714	0.0066304	0.11728	-2.294997
P3H4	-0.25776	7.0905138	-3.509644	0.0066317	0.11728	-2.295195
SIPA1L1	0.3011813	7.289941	3.5090595	0.0066378	0.11728	-2.296101
BORCS7	-0.23026	8.2766942	-3.508855	0.0066399	0.11728	-2.296417
CRLS1	-0.23561	11.195591	-3.508209	0.0066467	0.11728	-2.297419
PIBF1	-0.376891	7.6620579	-3.506816	0.0066613	0.11728	-2.299581
GATAD2A	0.2821398	11.298731	3.5064879	0.0066647	0.11728	-2.300089
MED12	0.2484313	7.6972166	3.5054889	0.0066752	0.11728	-2.301639
DPP3	0.2875188	8.4526697	3.5052396	0.0066778	0.11728	-2.302025
PSORS1C1	-0.30959	7.7679312	-3.503253	0.0066987	0.11738	-2.305108
WDR12	-0.252957	10.618476	-3.503205	0.0066992	0.11738	-2.305181
TFEB	0.2812666	7.6932374	3.4995516	0.0067377	0.11791	-2.310851
C2orf15	-0.256121	7.8100959	-3.497488	0.0067596	0.11815	-2.314053
E2F5	-0.299755	10.821512	-3.493398	0.0068033	0.11877	-2.320402
SYNE3	0.2179606	6.9074276	3.4922632	0.0068154	0.11881	-2.322164
SDHB	-0.245912	12.981486	-3.491531	0.0068233	0.11881	-2.323301
MAN2B1	0.4578936	8.377288	3.4909363	0.0068297	0.11881	-2.324224
MCM2	0.4632317	9.616679	3.4896313	0.0068437	0.11889	-2.32625
CD74	0.6438544	11.527227	3.488832	0.0068523	0.11889	-2.327491
POLR1B	0.3130826	7.8173181	3.487558	0.0068661	0.11889	-2.32947
ANXA4	-0.317501	7.2470086	-3.487413	0.0068676	0.11889	-2.329695
CYFIP2	0.3132109	10.848772	3.4855761	0.0068875	0.11889	-2.332548
PARN	-0.321044	8.9482468	-3.48548	0.0068885	0.11889	-2.332697
MGST3	-0.269724	9.4689229	-3.484169	0.0069028	0.11889	-2.334733
XPO1	0.3293072	10.717594	3.4832602	0.0069127	0.11889	-2.336145
TRIM11	0.3257861	8.2246999	3.4831393	0.006914	0.11889	-2.336333
PFKL	0.2790871	7.7426105	3.4825536	0.0069203	0.11889	-2.337243
BRF1	0.2562592	7.3473909	3.4811921	0.0069352	0.11889	-2.339358
TARDBP	-0.306495	8.144899	-3.48119	0.0069352	0.11889	-2.339361
PPCS	-0.290546	9.3371552	-3.480708	0.0069405	0.11889	-2.34011
SETDB2	-0.284469	9.3932164	-3.476413	0.0069876	0.11956	-2.346784
CEP70	-0.254905	6.9370365	-3.474482	0.0070089	0.11978	-2.349785

PRRC2A	0.4767187	8.2700638	3.4721535	0.0070346	0.11984	-2.353404
SYNCRIP	0.3471092	10.584928	3.4711659	0.0070456	0.11984	-2.354939
CYB5R4	-0.301557	9.0298151	-3.47103	0.0070471	0.11984	-2.355151
GRN	0.2792802	10.016262	3.4710088	0.0070473	0.11984	-2.355183
CETN3	-0.3152	8.254255	-3.470457	0.0070534	0.11984	-2.356041
JADE3	0.2528781	8.4378179	3.4657691	0.0071057	0.12059	-2.36333
PFDN4	-0.539063	7.7225453	-3.463494	0.0071313	0.1207	-2.366868
SSRP1	0.2749089	9.1599063	3.4632102	0.0071345	0.1207	-2.36731
MYCBP	-0.23038	7.3923738	-3.46255	0.0071419	0.1207	-2.368337
NEO1	0.2400297	8.8753813	3.4622285	0.0071455	0.1207	-2.368836
NPHP1	-0.243338	7.0383052	-3.453537	0.0072441	0.12207	-2.382359
BICD2	0.3364545	8.7435336	3.4530206	0.00725	0.12207	-2.383162
TRIM28	0.6547032	9.0478149	3.4529214	0.0072512	0.12207	-2.383317
XAB2	0.4802606	9.2068254	3.4519373	0.0072624	0.12211	-2.384848
KIAA2013	0.4448994	9.7706015	3.4494975	0.0072904	0.12244	-2.388645
TXN	-0.260352	13.540817	-3.448585	0.0073009	0.12247	-2.390065
MAP7D1	0.250454	9.8261234	3.4479305	0.0073085	0.12247	-2.391085
ORC5	-0.208416	9.5956599	-3.445014	0.0073422	0.12277	-2.395626
YPEL2	-0.230061	7.2278933	-3.444804	0.0073446	0.12277	-2.395953
NOP58	-0.357887	10.373268	-3.443449	0.0073604	0.12277	-2.398061
TBC1D10B	0.3091549	7.8193541	3.4430093	0.0073655	0.12277	-2.398747
PSMD10	-0.264927	9.1419124	-3.44274	0.0073686	0.12277	-2.399166
PCIF1	0.2256526	7.0566987	3.4378752	0.0074254	0.12346	-2.406742
GLRX2	-0.215148	8.5267654	-3.437746	0.007427	0.12346	-2.406944
MRPL19	-0.519869	9.5855298	-3.436731	0.0074389	0.12352	-2.408525
PDCD7	0.3062521	11.478011	3.4331475	0.0074811	0.124	-2.414107
NBPF14	-0.285511	7.5658201	-3.432615	0.0074874	0.124	-2.414938
SH2B3	0.4727275	9.6843651	3.4312473	0.0075036	0.124	-2.417068
ACO1	0.2342203	10.530995	3.4294507	0.0075249	0.124	-2.419868
TRAPPC13	-0.322941	7.9475637	-3.428627	0.0075347	0.124	-2.421151
WIZ	0.2646841	6.9999827	3.4285521	0.0075356	0.124	-2.421268
BLMH	0.2374333	9.7723625	3.4282635	0.007539	0.124	-2.421718
RBM34	-0.408939	9.5001315	-3.427779	0.0075448	0.124	-2.422473
CANT1	0.3503975	8.4697793	3.4272851	0.0075507	0.124	-2.423243
LYPLA1	-0.293849	8.9502549	-3.427099	0.0075529	0.124	-2.423533
RAD51C	-0.226948	8.8650315	-3.424666	0.007582	0.12434	-2.427325
CBLB	0.4736885	8.7393288	3.4221387	0.0076124	0.12457	-2.431265
CLDN15	-0.300045	8.0509367	-3.422061	0.0076133	0.12457	-2.431387
CLK4	-0.347014	7.5442496	-3.419407	0.0076453	0.12459	-2.435524
PRB3	0.2329485	6.9833979	3.4192624	0.0076471	0.12459	-2.43575
ACTR10	-0.301651	9.8772111	-3.419185	0.007648	0.12459	-2.43587
FDX1L	0.2603848	8.7738208	3.4191548	0.0076484	0.12459	-2.435918
ICOSLG	0.3688345	7.9923485	3.4184232	0.0076572	0.12459	-2.437058

SIN3B	0.2233649	7.4469334	3.4161823	0.0076844	0.12465	-2.440553
NPEPPS	0.2766444	8.4552765	3.4161678	0.0076846	0.12465	-2.440575
SNORD109B	0.2365635	6.961419	3.4151099	0.0076975	0.12465	-2.442225
JUNB	0.4212197	7.8894094	3.414262	0.0077078	0.12465	-2.443548
GPLD1	0.238529	7.1132718	3.4134368	0.0077179	0.12465	-2.444835
EIF4G3	0.3285152	10.020629	3.4132722	0.0077199	0.12465	-2.445092
FAIM	-0.216204	7.8221215	-3.413181	0.007721	0.12465	-2.445235
UTS2	-0.216877	7.8561741	-3.412444	0.00773	0.12466	-2.446384
WDR75	-0.35233	10.914201	-3.40992	0.0077609	0.12502	-2.450321
HECTD1	0.3718253	9.99572	3.4075584	0.00779	0.12526	-2.454006
ZSCAN16	-0.242632	7.2625006	-3.407319	0.0077929	0.12526	-2.454379
ERC2	-0.251975	7.0047203	-3.406298	0.0078056	0.12533	-2.455973
TAOK2	0.2183255	7.0689274	3.4051544	0.0078197	0.12542	-2.457757
WBP11	0.2454705	9.1501793	3.4030325	0.007846	0.1257	-2.461068
PYCR2	0.3334491	9.9931675	3.3993451	0.0078919	0.1263	-2.466824
FBXO31	0.3655321	9.0486437	3.3976344	0.0079134	0.1265	-2.469494
RHBDD2	0.4115789	9.4715989	3.3964397	0.0079283	0.1266	-2.47136
STAT5A	0.2426669	7.4622923	3.3944904	0.0079529	0.1268	-2.474403
LINC02203	-0.234234	6.8550006	-3.394097	0.0079578	0.1268	-2.475017
AURKAPS1	-0.31635	7.0747921	-3.392887	0.0079731	0.12683	-2.476907
EIF1AY	-0.353054	10.221935	-3.391654	0.0079887	0.12683	-2.478832
SF3B2	0.4169023	10.36023	3.3915344	0.0079902	0.12683	-2.479019
KHNYN	0.2595687	7.7668031	3.391161	0.0079949	0.12683	-2.479602
TMEM9B	-0.376246	9.5265669	-3.390458	0.0080038	0.12684	-2.480701
RPL39	-0.401934	14.354097	-3.388967	0.0080228	0.127	-2.483028
GPI	0.3870977	10.858407	3.3866789	0.0080519	0.12718	-2.486603
NUCKS1	0.3742301	10.649057	3.3855869	0.0080659	0.12718	-2.488309
SMG7	0.247757	8.7443518	3.3847998	0.0080759	0.12718	-2.489538
IL17RA	0.252814	7.2111672	3.3843243	0.008082	0.12718	-2.490281
USPL1	-0.400509	8.4329931	-3.383706	0.00809	0.12718	-2.491248
BET1	-0.382911	8.2183073	-3.383399	0.0080939	0.12718	-2.491727
CPD	0.2046543	7.3991631	3.3833151	0.008095	0.12718	-2.491858
MRPL15	-0.600734	10.311734	-3.381847	0.0081138	0.12724	-2.494151
UBE2O	0.6863678	8.6323112	3.3809711	0.0081251	0.12724	-2.49552
WDR82	0.5183448	9.7043577	3.3803136	0.0081336	0.12724	-2.496548
ZNF692	-0.332665	7.6382647	-3.380296	0.0081338	0.12724	-2.496575
MAD1L1	0.2165528	7.257175	3.3770076	0.0081763	0.12775	-2.501714
MCL1	0.2608173	8.9587847	3.3764111	0.0081841	0.12775	-2.502647
SRSF5	-0.412385	10.752933	-3.375344	0.0081979	0.12783	-2.504314
RFC4	-0.213854	10.238858	-3.371753	0.0082448	0.12831	-2.509927
KPNA1	0.2091932	9.3089586	3.371536	0.0082476	0.12831	-2.510267
FAM222B	0.3974925	8.4547524	3.370979	0.0082549	0.12831	-2.511138
HSBP1	-0.349699	11.047614	-3.368827	0.0082831	0.12861	-2.514502

KANSL2	-0.366053	10.29715	-3.368046	0.0082934	0.12863	-2.515724
COX17	-0.294141	12.425462	-3.365782	0.0083233	0.1287	-2.519265
ZNF302	-0.375584	8.1222738	-3.365711	0.0083242	0.1287	-2.519376
IKZF1	0.429787	9.0603512	3.36565	0.008325	0.1287	-2.519471
MPC1	-0.240703	11.102211	-3.364229	0.0083438	0.1287	-2.521693
TIMM21	-0.280231	10.500261	-3.363758	0.00835	0.1287	-2.52243
SNORD46	-0.348091	7.3669427	-3.36371	0.0083507	0.1287	-2.522504
MAPK1IP1L	0.247029	8.0442486	3.3607243	0.0083904	0.12917	-2.527175
NCOA6	0.274843	9.2919115	3.3592892	0.0084095	0.12933	-2.52942
MNAT1	-0.581664	8.375189	-3.357923	0.0084278	0.12941	-2.531557
MED1	0.2156924	8.4456902	3.3575648	0.0084326	0.12941	-2.532117
UBXN1	0.2385867	11.148593	3.3559796	0.0084538	0.12954	-2.534598
COPS2	-0.310024	7.4884456	-3.355611	0.0084588	0.12954	-2.535174
CHCHD10	0.3629689	12.111039	3.3540008	0.0084804	0.12971	-2.537694
WASL	0.3290888	8.7265231	3.3534743	0.0084875	0.12971	-2.538518
ZNF282	0.3604776	8.0149103	3.3527116	0.0084978	0.12973	-2.539711
CTRL	-0.375042	7.4550955	-3.34994	0.0085353	0.13007	-2.544048
MRPL58	-0.26316	9.7286125	-3.349746	0.0085379	0.13007	-2.544352
PCNA	-0.28634	9.5904132	-3.347997	0.0085617	0.13013	-2.54709
MRPL22	-0.256397	10.992706	-3.347704	0.0085657	0.13013	-2.547549
PCID2	-0.238483	11.134574	-3.347509	0.0085683	0.13013	-2.547854
CCDC88C	0.3987329	8.2376241	3.3460551	0.0085882	0.13014	-2.55013
MRPL12	0.4106338	10.604272	3.3443526	0.0086114	0.13014	-2.552795
ALOX5AP	0.2242444	12.279009	3.3433238	0.0086255	0.13014	-2.554406
HELZ	0.3951648	8.10716	3.3424401	0.0086377	0.13014	-2.555789
NT5C2	-0.331697	9.9863636	-3.341185	0.0086549	0.13014	-2.557754
GPATCH3	0.2563504	8.3052918	3.3411493	0.0086554	0.13014	-2.55781
ELMOD2	-0.253414	7.2931827	-3.340896	0.0086589	0.13014	-2.558207
SSFA2	-0.252297	7.0868318	-3.34033	0.0086667	0.13014	-2.559094
CD99	0.3833446	8.6277423	3.340112	0.0086697	0.13014	-2.559435
RPS26P47	0.4002804	12.803371	3.3398893	0.0086728	0.13014	-2.559783
S100A4	-0.245289	7.4701432	-3.339261	0.0086814	0.13014	-2.560767
GSE1	0.2231596	7.899196	3.3389779	0.0086853	0.13014	-2.561211
ACTN4	0.5687081	8.774304	3.3375102	0.0087056	0.13014	-2.563509
LYN	0.6305838	11.217462	3.3372672	0.008709	0.13014	-2.56389
TNFRSF10A	0.2468475	7.8244251	3.337114	0.0087111	0.13014	-2.56413
MKL1	0.4459479	7.8540402	3.3370943	0.0087114	0.13014	-2.56416
UBAP2	0.4870467	8.4659554	3.3360841	0.0087254	0.13015	-2.565743
FTH1P7	0.2083282	10.043853	3.3357446	0.0087301	0.13015	-2.566274
ZNF767P	-0.429383	7.3846037	-3.334736	0.0087441	0.13022	-2.567854
SLC19A2	0.2276256	7.7253646	3.3287695	0.0088275	0.13133	-2.577201
C8orf33	0.2937893	9.8000801	3.3268838	0.008854	0.13147	-2.580156
DIRAS2	-0.227065	6.8915273	-3.326827	0.0088548	0.13147	-2.580245

KLRA1P	-0.306041	7.2618776	-3.326207	0.0088636	0.13147	-2.581216
HSPA14	-0.288852	9.5723548	-3.323651	0.0088997	0.13177	-2.585221
ZFPL1	0.245722	7.6267636	3.3230047	0.0089089	0.13177	-2.586234
MTERF3	-0.275431	10.30109	-3.322847	0.0089111	0.13177	-2.586482
AP3M2	-0.281747	8.3556771	-3.322147	0.008921	0.13178	-2.587579
PSPC1	-0.224386	8.4122611	-3.320161	0.0089493	0.13207	-2.590692
DNPEP	0.3596122	8.8762873	3.3185326	0.0089725	0.13217	-2.593244
TUBA1A	0.2732639	12.973117	3.318302	0.0089758	0.13217	-2.593605
GNB5	0.2509082	7.566339	3.3177487	0.0089837	0.13217	-2.594473
WNT10A	0.4960068	8.2968491	3.3152209	0.00902	0.13251	-2.598436
ADRM1	0.3747192	10.057058	3.3148778	0.0090249	0.13251	-2.598974
STXBP1	0.2494353	7.7194945	3.3137142	0.0090416	0.13253	-2.600798
RPL4	0.2536198	13.449971	3.3133534	0.0090468	0.13253	-2.601364
FAM234A	0.4148542	8.1971551	3.3129167	0.0090531	0.13253	-2.602049
NUDT16L1	0.3134085	8.6603275	3.3121337	0.0090644	0.13256	-2.603276
LARP1	0.3153491	9.5123508	3.3105068	0.0090879	0.13259	-2.605828
SETDB1	0.2927507	8.5861589	3.3102144	0.0090922	0.13259	-2.606286
AGAP6	-0.42311	8.5031102	-3.310118	0.0090936	0.13259	-2.606437
HCLS1	0.404766	11.821559	3.3085304	0.0091166	0.13272	-2.608927
ATP6V1E1	-0.259375	10.911557	-3.308236	0.0091209	0.13272	-2.609388
GRHPR	0.3117111	11.609193	3.3071483	0.0091367	0.13282	-2.611095
TFDP2	-0.232375	8.6917929	-3.303522	0.0091897	0.13323	-2.616783
TMEM156	-0.28322	8.2995773	-3.302819	0.0092	0.13323	-2.617886
ZBTB43	0.4627692	7.8758542	3.302546	0.009204	0.13323	-2.618314
LITAF	0.2609334	8.9077085	3.3018627	0.009214	0.13323	-2.619386
SNORD100	-0.411372	8.0841781	-3.30166	0.009217	0.13323	-2.619704
PIM2	-0.267513	11.231183	-3.301456	0.00922	0.13323	-2.620023
TGDS	-0.323566	8.724147	-3.298484	0.0092637	0.13373	-2.624686
PRCC	0.2301332	8.052938	3.2952612	0.0093115	0.13413	-2.629744
LOC553137	-0.257027	6.9198732	-3.294869	0.0093173	0.13413	-2.63036
RELB	0.3701602	8.9366016	3.2927376	0.009349	0.13413	-2.633704
PIGH	-0.297959	8.2930226	-3.292718	0.0093493	0.13413	-2.633735
DFFA	0.4941255	9.4332671	3.2920193	0.0093597	0.13413	-2.634832
AP1S2	-0.313797	9.2234498	-3.29164	0.0093654	0.13413	-2.635427
C1orf52	-0.271374	9.188958	-3.290945	0.0093758	0.13413	-2.636518
PPP1CA	0.4790147	9.791722	3.2902037	0.0093869	0.13413	-2.637682
ATG4A	-0.356457	8.4885588	-3.289609	0.0093958	0.13413	-2.638615
PDCD5	-0.353926	10.994936	-3.289411	0.0093988	0.13413	-2.638927
GNG10	-0.263172	8.2539082	-3.288732	0.009409	0.13413	-2.639992
DUSP18	0.2339035	7.2631534	3.2885446	0.0094118	0.13413	-2.640286
ECI2	-0.27477	10.477894	-3.287597	0.009426	0.13413	-2.641773
EIF4E2	0.3740356	10.509192	3.2873004	0.0094305	0.13413	-2.642239
SLF1	-0.322422	7.7601322	-3.286924	0.0094361	0.13413	-2.64283

TMEM222	0.3084688	8.2554012	3.2864589	0.0094431	0.13413	-2.64356
SDHAF4	-0.346736	8.3762305	-3.286185	0.0094473	0.13413	-2.643991
ZC3H18	0.2848661	7.8629343	3.2853489	0.0094599	0.13418	-2.645303
MTMR4	0.3039578	10.587685	3.2832839	0.0094911	0.13449	-2.648545
PPP1R18	0.5432242	9.7825479	3.2816044	0.0095166	0.13472	-2.651182
LY96	-0.556818	9.7094961	-3.280237	0.0095374	0.13488	-2.65333
TMEM138	-0.360464	8.9312698	-3.279457	0.0095492	0.13492	-2.654555
TMEM206	-0.278811	9.053713	-3.277774	0.0095749	0.13515	-2.657198
PGLS	0.3255254	9.6880194	3.2760564	0.0096012	0.13539	-2.659895
NUDT22	0.2314339	8.9944743	3.2754115	0.0096111	0.1354	-2.660908
SMARCC1	0.3535835	11.393592	3.2713697	0.0096733	0.13605	-2.667258
PTPN22	-0.338706	8.4075501	-3.271206	0.0096759	0.13605	-2.667515
SERF1A	-0.276245	7.4673044	-3.270278	0.0096902	0.13612	-2.668973
FANCL	-0.370713	8.6847488	-3.269336	0.0097048	0.13612	-2.670453
PPID	-0.285079	7.5478715	-3.269094	0.0097086	0.13612	-2.670833
SLIRP	-0.244996	13.524115	-3.265317	0.0097673	0.13681	-2.676768
HDAC8	-0.206703	7.3897333	-3.263322	0.0097985	0.13704	-2.679903
STAT3	0.2223445	8.0517162	3.2625577	0.0098105	0.13704	-2.681104
RBM48	0.2301706	7.1481384	3.2620165	0.009819	0.13704	-2.681955
GNB1	0.3299391	12.501245	3.2610775	0.0098337	0.13704	-2.68343
CUX1	0.2786458	7.8553654	3.2606302	0.0098407	0.13704	-2.684133
IPO9	0.4028256	8.8396361	3.2599864	0.0098509	0.13704	-2.685145
PPIB	-0.252293	8.0362903	-3.25996	0.0098513	0.13704	-2.685187
FXR2	0.414145	8.1986656	3.2590427	0.0098657	0.13704	-2.686629
WDFY4	0.2826615	8.6315064	3.2581622	0.0098796	0.13704	-2.688013
CBX6	0.3054356	10.775322	3.2576598	0.0098876	0.13704	-2.688802
MTMR6	-0.490537	8.6120869	-3.25739	0.0098918	0.13704	-2.689227
CEBPZ	-0.326141	10.365504	-3.256853	0.0099003	0.13704	-2.690071
DPY19L4	-0.349934	7.8220698	-3.25565	0.0099194	0.13704	-2.691962
TMEM179B	0.2362768	9.8982352	3.255429	0.0099229	0.13704	-2.692309
ZCCHC9	-0.202956	9.8697426	-3.255306	0.0099248	0.13704	-2.692502
AAMP	0.4356852	8.8951411	3.2532829	0.009957	0.13736	-2.695683
TMEM131	0.5058577	10.192969	3.2480841	0.0100401	0.13837	-2.703858
CKAP5	0.2281054	9.2712224	3.2473233	0.0100523	0.13841	-2.705054
CAPS2	-0.242289	7.6766577	-3.245614	0.0100799	0.13861	-2.707742
EGR2	0.3349023	7.1988103	3.2452466	0.0100858	0.13861	-2.70832
CHPF	0.310828	7.8089771	3.2435785	0.0101127	0.13871	-2.710944
DDX39B	0.2111372	8.7628529	3.2434192	0.0101153	0.13871	-2.711195
TOPBP1	-0.349738	8.7552515	-3.243021	0.0101218	0.13871	-2.711822
NAE1	-0.250475	9.5442743	-3.241633	0.0101443	0.13889	-2.714005
ZDHHC18	0.3519013	8.5593422	3.2395096	0.0101788	0.13923	-2.717345
GYG1	0.2596709	10.515636	3.2371733	0.0102169	0.1396	-2.72102
SNORA23	-0.428626	7.5891665	-3.236398	0.0102296	0.1396	-2.722241

ZNF275	0.4933568	9.2332236	3.2361224	0.0102341	0.1396	-2.722673
CDK7	-0.292566	9.7996604	-3.234479	0.0102611	0.13974	-2.72526
ENY2	-0.351222	11.423319	-3.234287	0.0102642	0.13974	-2.725561
ATN1	0.2548692	7.3428957	3.2332975	0.0102805	0.13984	-2.727118
DUSP2	0.5323807	9.363605	3.2325365	0.010293	0.13987	-2.728316
SYT11	0.2672654	9.826716	3.231686	0.010307	0.13987	-2.729654
CEP290	-0.315942	7.1327193	-3.231405	0.0103117	0.13987	-2.730096
MMGT1	0.3120788	9.800201	3.2293079	0.0103464	0.14021	-2.733397
USP7	0.2703078	8.1491845	3.228213	0.0103645	0.1403	-2.73512
C1orf131	-0.342683	10.016423	-3.22737	0.0103785	0.1403	-2.736447
NCAPH2	0.2369517	7.6561597	3.2267628	0.0103886	0.1403	-2.737403
MAN1B1	-0.242304	9.1676764	-3.225744	0.0104056	0.1403	-2.739005
SNORA32	-0.340155	7.6491613	-3.224835	0.0104207	0.1403	-2.740437
VNN2	-0.306002	9.1219207	-3.224454	0.0104271	0.1403	-2.741036
PKM	0.6782123	9.8711299	3.2243626	0.0104286	0.1403	-2.74118
OGT	-0.510731	9.5222898	-3.224101	0.010433	0.1403	-2.741592
SUPT16H	0.2303583	11.879224	3.2236946	0.0104398	0.1403	-2.742232
ZNF562	0.4431891	8.2223297	3.2216244	0.0104745	0.14053	-2.745491
NUMA1	0.3580781	7.9015685	3.2211113	0.0104831	0.14053	-2.746299
MRPL17	-0.404021	10.75789	-3.220967	0.0104855	0.14053	-2.746527
ATP5EP2	-0.21218	13.634355	-3.220312	0.0104965	0.14054	-2.747558
MGLL	0.2558727	7.5472716	3.2197619	0.0105058	0.14054	-2.748423
ADAM19	0.4580396	9.7561716	3.2183697	0.0105292	0.14064	-2.750615
FBXW9	-0.313987	8.3308667	-3.218166	0.0105327	0.14064	-2.750936
POLB	-0.394306	8.9414508	-3.217466	0.0105445	0.14067	-2.752037
SNORA59B	0.2444439	7.0564748	3.2167866	0.010556	0.14068	-2.753108
ZFAND2A	-0.440001	9.1794875	-3.215766	0.0105733	0.14068	-2.754716
TUBB	0.307027	12.302631	3.2154633	0.0105784	0.14068	-2.755192
DYRK2	0.3132153	8.5721715	3.2146496	0.0105922	0.14068	-2.756473
ANKRD46	-0.262269	9.570771	-3.214569	0.0105935	0.14068	-2.756599
RPL21P16	-1.693024	8.3967567	-3.213207	0.0106167	0.14086	-2.758745
SMNDC1	-0.355806	9.7725828	-3.211835	0.0106401	0.14094	-2.760905
TSC22D2	0.2931522	8.3273741	3.2117549	0.0106414	0.14094	-2.761032
IRF4	0.2488	8.1491595	3.2101971	0.010668	0.14116	-2.763485
SH3BGRL3	0.3313472	9.215141	3.2096508	0.0106774	0.14116	-2.764346
ELK1	0.3616617	9.5069149	3.2049365	0.0107584	0.142	-2.771771
PIAS4	0.4111936	9.7638167	3.2042526	0.0107702	0.142	-2.772849
MN1	-0.222922	6.9097934	-3.20373	0.0107792	0.142	-2.773673
NXT1	-0.284166	10.840547	-3.203671	0.0107803	0.142	-2.773766
PMAIP1	-0.416712	8.5100965	-3.201526	0.0108174	0.14232	-2.777144
EIF4E	-0.27238	7.5787482	-3.201157	0.0108238	0.14232	-2.777726
TRAPPC11	-0.252822	8.7137333	-3.199961	0.0108446	0.1424	-2.779611
FABP5	-0.261776	9.9563447	-3.199557	0.0108516	0.1424	-2.780247

SNORA65	-0.311165	7.9517934	-3.198696	0.0108666	0.1424	-2.781603
HEBP1	-0.285475	8.3053647	-3.198467	0.0108706	0.1424	-2.781964
UPF1	0.3318186	8.3844221	3.1971916	0.0108929	0.1424	-2.783974
XYLT2	0.3001848	9.1723325	3.1970165	0.0108959	0.1424	-2.78425
PA2G4	0.5537605	11.28377	3.196516	0.0109047	0.1424	-2.785038
YBX3	0.2119415	13.403717	3.1962175	0.0109099	0.1424	-2.785509
ORC1	0.2456488	7.9732794	3.1957829	0.0109175	0.1424	-2.786194
LOC400870	-0.228722	6.9510395	-3.193664	0.0109547	0.14275	-2.789532
METTL2A	0.3592115	8.0004329	3.1927497	0.0109708	0.14277	-2.790974
TTC5	0.3377086	9.4288915	3.1924879	0.0109754	0.14277	-2.791386
BMS1P5	0.497638	10.482045	3.1911891	0.0109983	0.14294	-2.793433
C19orf24	0.3823602	8.9080015	3.1893771	0.0110303	0.14323	-2.79629
TM2D1	-0.379463	8.7169035	-3.188762	0.0110412	0.14323	-2.797259
PPDPF	0.2242735	7.4525335	3.1882521	0.0110502	0.14323	-2.798063
TSEN15	-0.344675	8.558325	-3.186291	0.0110851	0.14342	-2.801155
ZDHHC13	-0.208934	7.7324809	-3.18586	0.0110928	0.14342	-2.801834
LTB	-0.273476	10.312111	-3.185761	0.0110945	0.14342	-2.80199
SYK	0.5870628	10.94081	3.1843351	0.0111199	0.14362	-2.804238
DBI	-0.248107	11.591069	-3.183263	0.0111391	0.14374	-2.805928
NSUN5P1	-0.241199	7.1783307	-3.182428	0.0111541	0.14381	-2.807245
DHX30	0.4117887	9.1365281	3.1791375	0.0112131	0.14441	-2.812433
GOLGA6L2	0.2468889	7.0745412	3.1787229	0.0112206	0.14441	-2.813086
LSM1	-0.308191	10.654307	-3.177717	0.0112387	0.14441	-2.814672
EPM2AIP1	0.2481741	8.7909606	3.1776498	0.01124	0.14441	-2.814778
THOC3	-0.215251	9.9529612	-3.174482	0.0112973	0.14473	-2.819774
TRAPPC9	0.2721113	7.247773	3.1743456	0.0112998	0.14473	-2.819989
APIP	-0.225616	9.8704443	-3.174242	0.0113017	0.14473	-2.820153
IPO4	0.4634475	9.1285249	3.1740793	0.0113046	0.14473	-2.820409
PSMD1	0.4147879	10.130512	3.173019	0.0113239	0.14474	-2.822081
HDDC3	-0.226015	9.3243016	-3.172918	0.0113257	0.14474	-2.82224
CCDC85B	0.3225429	8.2173456	3.1707193	0.0113658	0.14513	-2.825709
BEST4	0.3089469	6.9848443	3.1700376	0.0113782	0.14516	-2.826784
PURB	0.2834166	9.5558223	3.1692352	0.0113929	0.14522	-2.828049
CAB39L	-0.240959	7.8109223	-3.168482	0.0114067	0.14524	-2.829237
MRPL33	-0.23112	11.153869	-3.168057	0.0114145	0.14524	-2.829907
PSPH	-0.291983	8.9186497	-3.167067	0.0114327	0.14535	-2.83147
AHSA2	-0.415162	8.3749493	-3.165356	0.0114642	0.1455	-2.834169
GRM8	-0.237812	6.9184189	-3.165308	0.0114651	0.1455	-2.834245
GTF2H2B	-0.31386	10.045195	-3.16419	0.0114857	0.1455	-2.836008
TTLL4	0.2434097	7.92227	3.1639937	0.0114893	0.1455	-2.836318
ERCC1	0.2331393	8.6003775	3.1635939	0.0114967	0.1455	-2.836949
LAPTM5	0.2720615	10.111659	3.1628189	0.011511	0.1455	-2.838172
TTTY6	0.232863	6.9099171	3.1626191	0.0115147	0.1455	-2.838487

MINPP1	-0.339035	7.8671214	-3.161033	0.0115441	0.14575	-2.84099
PRRT3	0.2538554	7.8594953	3.158134	0.011598	0.14615	-2.845563
RDH10	0.2480669	8.2682985	3.1581328	0.0115981	0.14615	-2.845565
SECISBP2	-0.201333	9.4941519	-3.157701	0.0116061	0.14615	-2.846247
FAM32A	-0.254726	9.5885159	-3.156404	0.0116303	0.1462	-2.848294
LINC00294	0.2543905	8.5333627	3.1563752	0.0116309	0.1462	-2.848339
EEF2K	0.2850022	9.517072	3.1558985	0.0116398	0.1462	-2.849091
GPALPP1	-0.295375	7.2504052	-3.154918	0.0116582	0.14627	-2.850639
GCAT	0.2693266	8.9003638	3.1542319	0.011671	0.14627	-2.851721
CIR1	-0.303861	7.5759693	-3.153972	0.0116759	0.14627	-2.852131
ORAI1	0.2769275	7.738318	3.1526219	0.0117013	0.14647	-2.854262
FOXO3	0.2414302	7.9139665	3.1513921	0.0117245	0.14663	-2.856203
DEPDC1B	-0.234536	8.19102	-3.149195	0.011766	0.14682	-2.859671
BOLA3	-0.308256	12.065566	-3.149186	0.0117661	0.14682	-2.859686
MRPS34	0.3497229	8.6495849	3.1490028	0.0117696	0.14682	-2.859974
PSMD11	0.2587698	8.2884261	3.1478652	0.0117912	0.14691	-2.86177
C21orf91-OT	0.2102743	6.9817176	3.1475571	0.011797	0.14691	-2.862256
USP10	0.2741902	9.3733847	3.1427813	0.011888	0.14792	-2.869796
LIG1	0.2976126	8.8486823	3.1402831	0.0119359	0.14839	-2.87374
RBM15B	0.1996424	7.5140615	3.1394783	0.0119514	0.14845	-2.875011
DPY30	-0.250998	9.2249777	-3.138804	0.0119644	0.14847	-2.876076
PPP1R10	0.3453411	8.5494652	3.1383422	0.0119732	0.14847	-2.876805
C15orf39	0.3298773	8.1192042	3.1370829	0.0119975	0.14865	-2.878793
DERL3	-0.204386	6.9955783	-3.135755	0.0120232	0.14873	-2.88089
OXA1L	0.3393849	10.476019	3.1353152	0.0120317	0.14873	-2.881584
UQCRHL	-0.278868	13.058424	-3.13516	0.0120347	0.14873	-2.88183
SNX3	-0.23846	9.5519026	-3.130579	0.0121238	0.1497	-2.889065
ZNF610	0.1988131	6.8109027	3.129739	0.0121402	0.14978	-2.890391
MRPL32	-0.497573	11.165895	-3.128985	0.012155	0.14983	-2.891581
SNORD91A	0.3513799	7.7999481	3.1282109	0.0121701	0.14983	-2.892804
KATNA1	-0.232938	9.4022145	-3.127651	0.0121811	0.14983	-2.893689
PLXNB2	0.1909224	7.5046249	3.1266023	0.0122017	0.14983	-2.895345
LRP5L	-0.350114	7.6790557	-3.126022	0.0122131	0.14983	-2.896262
TNIP1	0.3998865	10.364427	3.1259146	0.0122152	0.14983	-2.896431
CSGALNACT	-0.242994	6.9788959	-3.125435	0.0122247	0.14983	-2.897189
CCL5	0.2916439	7.8707604	3.1253204	0.0122269	0.14983	-2.89737
SNORD78	-0.495895	7.084442	-3.123474	0.0122634	0.15008	-2.900286
UIMC1	-0.273036	10.72203	-3.122926	0.0122742	0.15008	-2.901153
DENND5B	0.2920155	7.3449655	3.1226422	0.0122798	0.15008	-2.901601
GEMIN6	-0.248403	10.107156	-3.121006	0.0123122	0.15008	-2.904185
C18orf32	-0.268565	7.5461082	-3.120786	0.0123166	0.15008	-2.904533
POLE3	-0.368836	12.314277	-3.120527	0.0123217	0.15008	-2.904942
RIDA	-0.350229	9.0603546	-3.120217	0.0123279	0.15008	-2.905431

HERC2	0.2957513	8.2623357	3.1201289	0.0123296	0.15008	-2.905571
SETD9	-0.202614	8.0108145	-3.118016	0.0123717	0.1504	-2.90891
CORO1A	0.4655618	11.222701	3.117712	0.0123777	0.1504	-2.90939
ZCWPW1	-0.264942	8.0765199	-3.117286	0.0123862	0.1504	-2.910062
ADGRE5	0.1932756	7.6659768	3.1162447	0.012407	0.15052	-2.911708
HMGN4	-0.217438	10.818912	-3.114768	0.0124366	0.15068	-2.914041
SNX25	-0.240875	8.2255917	-3.114578	0.0124404	0.15068	-2.914341
AMDHD2	0.2277877	7.586156	3.1134203	0.0124636	0.15083	-2.916171
GSDMD	-0.383479	8.6480477	-3.110313	0.0125262	0.15115	-2.921081
FCRL2	-0.260206	7.9018911	-3.109763	0.0125373	0.15115	-2.92195
RPL23	-0.34723	12.752774	-3.109378	0.0125451	0.15115	-2.922559
C8orf76	-0.279284	10.134872	-3.109005	0.0125527	0.15115	-2.923149
SERP1	-0.274801	9.7305896	-3.108236	0.0125682	0.15115	-2.924364
KIFC1	0.4029933	9.5138759	3.1081619	0.0125697	0.15115	-2.924481
RNY1	-0.643379	8.1609917	-3.107903	0.012575	0.15115	-2.924889
ZFPM1	0.2846978	8.0613177	3.1076494	0.0125801	0.15115	-2.925291
ARHGAP1	0.3837159	9.0654214	3.1075185	0.0125828	0.15115	-2.925498
ZNF12	0.2826421	7.4661649	3.105157	0.0126308	0.15155	-2.92923
CD247	-0.342818	8.3694054	-3.104685	0.0126404	0.15155	-2.929976
SNORA14B	-0.251027	7.2189102	-3.10389	0.0126566	0.15155	-2.931233
UBL7	0.2239235	7.8367616	3.103802	0.0126584	0.15155	-2.931372
RAB28	-0.20422	8.0806268	-3.103335	0.0126679	0.15155	-2.93211
PIK3CD	0.4210438	9.8501767	3.1012688	0.0127102	0.15184	-2.935376
ZNF746	0.2810591	9.0179085	3.1011328	0.012713	0.15184	-2.935591
MYO1C	0.3056324	7.5202425	3.1002637	0.0127308	0.15193	-2.936965
TRPV2	0.4042914	9.1408431	3.0981999	0.0127733	0.15231	-2.940227
FAM20B	0.2380827	9.6321409	3.0966181	0.0128059	0.15241	-2.942728
GET4	0.2381342	8.4037471	3.0954832	0.0128294	0.15241	-2.944522
POU2F1	0.2321678	7.9031773	3.0948227	0.0128431	0.15241	-2.945566
CHCHD7	-0.253593	9.4939162	-3.094632	0.012847	0.15241	-2.945867
QSOX2	-0.276463	8.8454865	-3.094423	0.0128514	0.15241	-2.946198
WDR78	0.2734812	6.994516	3.0932006	0.0128767	0.15241	-2.948131
MESDC1	0.2680221	7.4221573	3.0931004	0.0128788	0.15241	-2.948289
TCF4	0.3706589	8.4676107	3.092947	0.012882	0.15241	-2.948532
MGAT5	0.2889821	8.362254	3.0927259	0.0128866	0.15241	-2.948881
ARL4D	-0.242082	7.039525	-3.092229	0.0128969	0.15241	-2.949666
DGCR2	0.3331939	7.8118359	3.091999	0.0129017	0.15241	-2.950031
AXIN1	0.5027327	8.6122364	3.0917352	0.0129072	0.15241	-2.950448
FAM214A	-0.375861	8.4252922	-3.088762	0.0129693	0.15302	-2.955148
FSD2	0.258255	7.070717	3.084482	0.0130592	0.15384	-2.961917
FAM30A	0.2409431	7.9189485	3.0844514	0.0130598	0.15384	-2.961966
C1GALT1C1	-0.222796	8.1310537	-3.083057	0.0130893	0.15404	-2.964171
INHBB	-0.260531	7.0040334	-3.082327	0.0131047	0.15404	-2.965326

PIGS	0.2889771	8.7815442	3.0819872	0.0131119	0.15404	-2.965863
NRM	0.2170268	7.6657276	3.0816495	0.013119	0.15404	-2.966397
CNBP	-0.230419	9.3625419	-3.080638	0.0131405	0.15412	-2.967996
ZC3H4	0.3701798	9.7171695	3.0799823	0.0131544	0.15412	-2.969034
LINC02209	0.198489	7.0555062	3.0793178	0.0131685	0.15412	-2.970085
SUMO2	-0.252758	11.388798	-3.079283	0.0131693	0.15412	-2.97014
ZCCHC7	-0.345669	10.068396	-3.078854	0.0131784	0.15412	-2.970818
LAMTOR3	-0.221045	7.9200269	-3.078042	0.0131957	0.1542	-2.972102
UBXN4	-0.280678	10.394767	-3.077198	0.0132137	0.15428	-2.973437
ADCK1	0.2080285	8.1698441	3.0762722	0.0132334	0.15434	-2.974902
NOP14	0.2500714	8.972341	3.0757161	0.0132453	0.15434	-2.975781
RYBP	0.2627952	8.3904947	3.0750557	0.0132595	0.15434	-2.976826
ZNF573	0.2051833	7.7836532	3.0747315	0.0132664	0.15434	-2.977339
GNS	0.2830171	9.8895617	3.0744839	0.0132717	0.15434	-2.977731
ZNF160	0.1999626	7.521355	3.0737975	0.0132864	0.15439	-2.978816
TXNDC17	-0.391719	12.31742	-3.072946	0.0133047	0.15448	-2.980163
CD164	-0.223569	7.3509561	-3.071641	0.0133328	0.15468	-2.982228
P2RY11	-0.319106	9.0713228	-3.070056	0.013367	0.15485	-2.984735
USB1	0.3999447	8.9572171	3.0699952	0.0133683	0.15485	-2.984831
NPRL2	-0.338914	10.28103	-3.067756	0.0134167	0.1552	-2.988375
COL4A3	-0.268721	7.0716971	-3.066822	0.013437	0.1552	-2.989851
SPEN	0.3214916	9.6852715	3.0666363	0.013441	0.1552	-2.990145
MAP3K5	0.2991184	8.3535701	3.0664875	0.0134442	0.1552	-2.990381
MRRF	-0.196824	8.3522236	-3.065687	0.0134616	0.1552	-2.991648
JADE2	0.4910348	9.3348312	3.0656587	0.0134623	0.1552	-2.991692
SRP9	-0.39535	10.325924	-3.064213	0.0134937	0.15544	-2.993979
DRG2	0.295421	8.5810828	3.0628639	0.0135232	0.15551	-2.996114
ZNF304	0.2208522	7.2794509	3.0626915	0.013527	0.15551	-2.996387
KDM8	0.2703465	7.1317933	3.0624499	0.0135322	0.15551	-2.996769
TMEM68	-0.250792	7.0869132	-3.061381	0.0135556	0.15566	-2.998461
EIF3M	-0.354031	11.473869	-3.058655	0.0136155	0.15622	-3.002773
MISP	0.2408732	7.3607367	3.0578172	0.0136339	0.15622	-3.0041
VPREB1	-0.279275	7.11115	-3.05717	0.0136482	0.15622	-3.005124
PLLP	0.304732	7.1552771	3.0569959	0.0136521	0.15622	-3.0054
SSX2IP	-0.272189	7.3646213	-3.056476	0.0136635	0.15622	-3.006223
SMIM8	-0.262752	7.5995784	-3.056244	0.0136686	0.15622	-3.006589
EP400	0.3359792	8.7363805	3.0549687	0.0136969	0.15634	-3.008608
MGRN1	0.4073136	7.7068966	3.0547051	0.0137027	0.15634	-3.009025
NOC3L	-0.498483	10.220535	-3.054016	0.013718	0.15634	-3.010115
TOMM5	-0.314719	11.846246	-3.053522	0.0137289	0.15634	-3.010898
TMEM14A	-0.219234	9.6393139	-3.052942	0.0137418	0.15634	-3.011816
RPP38	-0.227417	7.5356131	-3.052869	0.0137434	0.15634	-3.01193
HARS	0.2672639	10.557441	3.0523572	0.0137548	0.15635	-3.012741

PTPN1	0.3804436	9.9699626	3.0512087	0.0137804	0.15652	-3.014558
CD86	0.228664	9.5184488	3.0489567	0.0138306	0.15697	-3.018123
MTRF1	-0.286447	7.5585707	-3.046129	0.013894	0.15756	-3.022599
CHCHD4	-0.305642	10.380122	-3.045019	0.013919	0.15757	-3.024356
C19orf53	-0.361363	10.53872	-3.044153	0.0139385	0.15757	-3.025727
OXCT1	-0.318925	8.6159133	-3.04339	0.0139557	0.15757	-3.026934
C14orf166	-0.225771	11.155495	-3.043235	0.0139592	0.15757	-3.02718
EIF4A3	0.2577308	11.945549	3.0430606	0.0139632	0.15757	-3.027456
EIF2B5	-0.231382	9.6998273	-3.042768	0.0139698	0.15757	-3.027919
COPS4	-0.331073	9.9080307	-3.042108	0.0139847	0.15757	-3.028963
GPS2	0.3417441	8.5643004	3.0412753	0.0140035	0.15757	-3.030282
LOC399900	0.5581411	11.621568	3.0411416	0.0140066	0.15757	-3.030493
CCDC97	0.274996	8.7021988	3.040842	0.0140134	0.15757	-3.030968
MRPS21	-0.268646	10.625575	-3.040687	0.0140169	0.15757	-3.031213
CAPZA1	-0.231848	8.8131923	-3.039182	0.0140511	0.15757	-3.033596
NUDCD2	-0.463262	8.9567091	-3.039129	0.0140522	0.15757	-3.033679
CYP2R1	-0.205554	8.038396	-3.038972	0.0140558	0.15757	-3.033929
PITRM1	0.2794118	8.9261728	3.0389543	0.0140562	0.15757	-3.033956
LUC7L3	-0.345928	8.1715879	-3.037605	0.0140869	0.15779	-3.036092
HLA-DRA	0.2299826	13.853088	3.0364052	0.0141143	0.1579	-3.037992
MED11	-0.21026	7.585673	-3.035724	0.0141299	0.1579	-3.039071
ARHGAP45	-0.267717	8.627435	-3.035184	0.0141422	0.1579	-3.039925
AKAP1	-0.245843	7.7932871	-3.034589	0.0141558	0.1579	-3.040867
PSMG3	-0.272134	8.4627742	-3.034359	0.0141611	0.1579	-3.041232
ASTL	-0.215066	6.9063509	-3.034314	0.0141622	0.1579	-3.041303
USP13	0.2947821	8.8249476	3.0337808	0.0141744	0.15792	-3.042147
AGFG2	0.2798088	7.2320723	3.0326681	0.0141999	0.15808	-3.043909
SDHD	-0.497109	10.520371	-3.030674	0.0142458	0.15836	-3.047066
USP9Y	-0.220255	7.0810075	-3.030647	0.0142465	0.15836	-3.047109
RPF1	-0.338167	8.8898563	-3.029483	0.0142733	0.15854	-3.048953
CDR2	-0.238185	8.9533798	-3.028982	0.0142849	0.15855	-3.049745
ARFGAP3	-0.223518	9.1236764	-3.02784	0.0143113	0.15871	-3.051554
TST	-0.516349	10.465682	-3.026608	0.0143399	0.15871	-3.053505
STAG3L4	-0.212895	7.7205408	-3.026267	0.0143478	0.15871	-3.054045
PHLDA1	0.1996568	7.1344445	3.0261213	0.0143512	0.15871	-3.054275
SNRPG	-0.268824	13.146568	-3.025489	0.0143659	0.15871	-3.055276
AQP12B	-0.432426	7.9156961	-3.025006	0.0143771	0.15871	-3.056041
HLA-DPA1	0.206054	12.65229	3.0245894	0.0143868	0.15871	-3.056701
SOX15	0.2004917	6.9014156	3.0242337	0.0143951	0.15871	-3.057264
DYNC1H1	0.4021092	9.9075336	3.0241351	0.0143974	0.15871	-3.05742
LIN7B	-0.198741	7.1232441	-3.022956	0.0144249	0.15875	-3.059288
VPS36	-0.385758	8.7028623	-3.022684	0.0144313	0.15875	-3.059718
OGFOD3	0.2136158	7.8851423	3.0220505	0.0144461	0.15875	-3.060722

PDE4B	-0.195195	7.8720522	-3.021593	0.0144568	0.15875	-3.061446
NOP10	-0.236566	12.610503	-3.019824	0.0144983	0.15875	-3.064248
CCDC92	-0.338556	8.4840115	-3.019405	0.0145081	0.15875	-3.064911
TUBAL3	0.2079324	7.037056	3.0191665	0.0145137	0.15875	-3.065289
FUZ	0.2789636	7.4243815	3.0181642	0.0145373	0.15875	-3.066876
ATP5G3	-0.273996	8.5646994	-3.018027	0.0145405	0.15875	-3.067094
CSNK2A2	0.3353029	9.669448	3.0176821	0.0145486	0.15875	-3.06764
EIF3F	0.3259715	12.310658	3.0174168	0.0145549	0.15875	-3.06806
OGFOD1	0.2717706	8.9062584	3.0163177	0.0145808	0.15875	-3.069801
TMEM161B	-0.244037	7.1962002	-3.01631	0.014581	0.15875	-3.069813
MPI	0.2234842	8.032804	3.0160544	0.014587	0.15875	-3.070218
TUBA3D	0.2297126	8.9443082	3.0159618	0.0145892	0.15875	-3.070365
SSB	-0.231257	9.0387657	-3.015534	0.0145993	0.15875	-3.071042
RGMA	0.2436186	7.2638432	3.0143953	0.0146263	0.15875	-3.072846
HID1	0.2181059	7.0259189	3.0134539	0.0146486	0.15875	-3.074337
SCARB1	0.5578608	9.5696967	3.0131265	0.0146564	0.15875	-3.074855
RFX1	0.3265727	7.8569525	3.0127007	0.0146665	0.15875	-3.07553
ADH5	-0.207036	7.960171	-3.012514	0.0146709	0.15875	-3.075825
WASF2	0.4147649	8.4926175	3.0124007	0.0146736	0.15875	-3.076005
DMWD	0.3425592	7.9727588	3.012229	0.0146777	0.15875	-3.076277
SURF6	0.3308204	10.449124	3.0117072	0.0146901	0.15875	-3.077103
CCDC171	-0.246291	7.0600439	-3.010776	0.0147123	0.15875	-3.078578
SCYL1	0.1983585	10.034279	3.0106952	0.0147142	0.15875	-3.078707
ZNF473	0.2074713	8.3501159	3.0102887	0.0147239	0.15875	-3.07935
SETD1A	0.3523011	8.8800198	3.0100263	0.0147302	0.15875	-3.079766
CTSA	0.310996	7.8719754	3.0096301	0.0147396	0.15875	-3.080394
CD2BP2	0.2405043	10.563642	3.0092715	0.0147482	0.15875	-3.080962
B2M	-0.201782	13.280604	-3.008878	0.0147576	0.15875	-3.081585
FCAR	0.404475	8.3903421	3.0083635	0.0147699	0.15875	-3.0824
GGH	-0.318089	9.2578867	-3.008362	0.01477	0.15875	-3.082403
MFGE8	-0.282999	8.8870851	-3.007857	0.014782	0.15875	-3.083202
P4HB	0.3985516	11.206866	3.0077729	0.014784	0.15875	-3.083336
KDM2A	0.361409	8.9550001	3.007165	0.0147986	0.15875	-3.084298
CARM1	0.3600053	12.146221	3.006945	0.0148039	0.15875	-3.084647
RFC5	-0.20064	10.513304	-3.00533	0.0148427	0.15905	-3.087205
GOLGA3	0.3029963	9.8031454	3.0043163	0.0148671	0.1592	-3.088811
PRPSAP2	-0.277615	10.483126	-3.003494	0.0148869	0.15929	-3.090114
SNX30	-0.203459	7.7651909	-3.002793	0.0149038	0.15936	-3.091225
MST1	-0.31018	7.2091546	-3.000417	0.0149613	0.15985	-3.094989
SIGMAR1	0.3405749	8.9814493	2.9988114	0.0150003	0.16007	-3.097532
NUBP1	-0.206332	8.876332	-2.998672	0.0150037	0.16007	-3.097754
CTRB2	0.226432	6.947702	2.9981919	0.0150154	0.16008	-3.098514
NSA2	-0.325755	12.207768	-2.996826	0.0150487	0.16032	-3.100677

TPRG1L	-0.253533	9.6851263	-2.996361	0.01506	0.16032	-3.101415
CHD8	0.7036886	10.235849	2.9940543	0.0151164	0.1608	-3.105069
WDR13	0.2181999	8.8782299	2.9930774	0.0151404	0.16094	-3.106617
GSC	0.205694	6.9290512	2.991964	0.0151677	0.16094	-3.108381
PRMT7	0.1968204	7.6061998	2.9916115	0.0151764	0.16094	-3.10894
WBP2	0.5165881	11.196072	2.9915645	0.0151776	0.16094	-3.109014
EYA1	-0.284274	6.8555794	-2.990988	0.0151918	0.16094	-3.109927
GPR137	0.2397734	10.853736	2.9908497	0.0151952	0.16094	-3.110147
EDC3	0.2630344	7.7880739	2.987823	0.0152699	0.16161	-3.114943
CHMP1A	0.3703434	8.8513472	2.9858737	0.0153183	0.16193	-3.118032
CHURC1	-0.405704	9.9192475	-2.985248	0.0153338	0.16193	-3.119023
TRMT10C	-0.47409	8.6428125	-2.984875	0.0153431	0.16193	-3.119614
FAM53B	0.2453117	8.1471722	2.9848157	0.0153446	0.16193	-3.119708
RABGGTB	-0.292279	9.9626156	-2.983876	0.015368	0.16206	-3.121198
SQSTM1	0.2242909	11.502749	2.9824609	0.0154033	0.16232	-3.12344
COTL1	0.3297004	8.9907733	2.9806518	0.0154486	0.16268	-3.126307
NOL9	0.2911038	7.4005025	2.979606	0.0154748	0.16278	-3.127964
SRC	0.2180922	7.0589767	2.9793864	0.0154803	0.16278	-3.128312
LOC728903	0.2492401	9.4862785	2.9783751	0.0155057	0.16293	-3.129915
TRIM39	-0.198099	7.9936488	-2.977294	0.015533	0.16299	-3.131629
KDELR1	0.2733902	10.408635	2.9772516	0.015534	0.16299	-3.131695
CENPH	-0.266923	7.5968962	-2.97645	0.0155542	0.16308	-3.132965
EEF1D	0.2157017	9.5117863	2.9745878	0.0156013	0.16333	-3.135917
COX6B1	0.310815	12.743071	2.9745336	0.0156027	0.16333	-3.136003
AURKB	0.3365477	10.000635	2.9742033	0.0156111	0.16333	-3.136527
SNTB2	0.3777289	8.3192805	2.9730176	0.0156411	0.16353	-3.138406
LEAP2	-0.230043	7.1451568	-2.97174	0.0156736	0.16375	-3.140431
HCST	0.243388	8.5647486	2.970823	0.0156969	0.16385	-3.141884
SAFB2	0.3999857	9.6216245	2.9703435	0.0157091	0.16385	-3.142644
ATXN7L3	0.3974739	8.5375808	2.9700136	0.0157176	0.16385	-3.143167
NDUFB9	-0.411492	11.024003	-2.969597	0.0157282	0.16385	-3.143827
TSR1	0.2458516	8.2790979	2.9684723	0.0157569	0.16403	-3.14561
CATSPER3	-0.18715	6.796646	-2.967086	0.0157924	0.16428	-3.147807
TDRD6	-0.210768	7.0879117	-2.966222	0.0158146	0.16431	-3.149177
FOSL2	0.1988943	7.1494427	2.9661047	0.0158176	0.16431	-3.149363
USP15	-0.183568	7.5317306	-2.965673	0.0158287	0.16431	-3.150047
TSC22D1	-0.181492	7.71049	-2.964756	0.0158522	0.16444	-3.1515
C11orf68	0.2480985	7.4637383	2.9638863	0.0158747	0.16447	-3.152879
NDUFA6	-0.247064	9.5596008	-2.96376	0.0158779	0.16447	-3.15308
IL4I1	0.3599776	7.4883508	2.9623043	0.0159155	0.16453	-3.155387
KPNA6	0.3422239	9.571767	2.9618725	0.0159266	0.16453	-3.156071
ERVK13-1	-0.196036	6.9526811	-2.961298	0.0159415	0.16453	-3.156981
AHI1	-0.26448	7.4299404	-2.960967	0.0159501	0.16453	-3.157507

JKAMP	-0.211707	8.7116284	-2.960821	0.0159538	0.16453	-3.157738
PNISR	-0.397455	9.3285849	-2.960588	0.0159599	0.16453	-3.158107
SSH2	0.211325	8.9753362	2.9602085	0.0159697	0.16453	-3.158709
PNPLA8	-0.39702	7.5745758	-2.959805	0.0159802	0.16453	-3.159349
ODC1	0.2152986	13.075794	2.9596313	0.0159847	0.16453	-3.159624
SNX16	-0.408433	7.9915205	-2.958443	0.0160156	0.16473	-3.161508
DHRS1	-0.307926	9.0963197	-2.957253	0.0160465	0.16493	-3.163394
RHOF	0.3228906	7.87525	2.9564909	0.0160664	0.16493	-3.164602
DUSP27	-0.192184	7.1390559	-2.955835	0.0160835	0.16493	-3.165641
ZNF526	0.2388014	7.7737841	2.9557106	0.0160868	0.16493	-3.165839
IGF2BP3	0.2811721	10.040457	2.9555129	0.0160919	0.16493	-3.166153
GUCA2A	-0.211343	6.9008664	-2.954685	0.0161136	0.16498	-3.167466
ZNF252P	-0.310643	9.3343743	-2.954481	0.0161189	0.16498	-3.167789
TMSB15B	-0.188205	7.5367489	-2.952682	0.0161661	0.16534	-3.17064
SLC29A3	0.2236666	7.282379	2.9517842	0.0161897	0.16544	-3.172064
GIMAP8	-0.193603	6.9322689	-2.951287	0.0162028	0.16544	-3.172852
TRAPPC3	-0.428494	10.203484	-2.95104	0.0162093	0.16544	-3.173243
MRPS33	-0.225365	10.227504	-2.94953	0.0162491	0.16573	-3.175637
PPP1R16B	0.3139224	9.5293605	2.9487778	0.0162689	0.16581	-3.17683
AGPS	0.1836163	8.6237358	2.9479445	0.016291	0.16592	-3.178151
HECTD4	0.2502791	7.9274985	2.9473882	0.0163057	0.16596	-3.179033
AP2S1	0.2284238	11.943989	2.9466164	0.0163262	0.16605	-3.180257
SLC5A6	0.3328178	9.6037192	2.9457095	0.0163502	0.16618	-3.181694
RNF115	0.3956495	9.56871	2.9446696	0.0163779	0.1663	-3.183343
RALY	0.3333083	9.4358911	2.9441258	0.0163924	0.1663	-3.184205
TAF10	0.3029539	10.122584	2.9437876	0.0164014	0.1663	-3.184742
GPR143	0.2436686	7.0303463	2.9433456	0.0164131	0.1663	-3.185442
TTC13	-0.243571	8.4055084	-2.942684	0.0164308	0.1663	-3.186492
DRAM2	-0.195396	8.6083563	-2.942678	0.016431	0.1663	-3.186501
GCLM	0.1973642	8.4623895	2.9419554	0.0164503	0.1663	-3.187646
RNFT1	-0.251184	7.6729585	-2.941457	0.0164636	0.1663	-3.188437
DMRTA2	0.1922888	6.8018274	2.9405766	0.0164872	0.1663	-3.189832
HLA-C	0.194675	7.7482068	2.9404707	0.01649	0.1663	-3.19
ATM	-0.283924	8.5574844	-2.940247	0.016496	0.1663	-3.190355
MBD5	0.2469308	6.9547373	2.9399939	0.0165028	0.1663	-3.190756
RPS24	-0.267474	12.873264	-2.939519	0.0165155	0.1663	-3.191509
DNM2	0.2601117	7.7368475	2.9392853	0.0165218	0.1663	-3.19188
ARID1A	0.2239289	10.121765	2.9381464	0.0165524	0.16649	-3.193686
C3orf33	-0.215797	6.9687188	-2.937534	0.0165689	0.16651	-3.194657
EEF1B2	-0.244026	11.409625	-2.937239	0.0165768	0.16651	-3.195125
COQ8B	0.2668144	7.8172107	2.9364288	0.0165987	0.16661	-3.196409
FOXK1	0.3126443	9.217852	2.934745	0.0166441	0.16696	-3.199079
POLRMT	0.3336687	9.0631682	2.9341335	0.0166607	0.16701	-3.200048

UQCRB	-0.275089	8.8296178	-2.932943	0.016693	0.16701	-3.201935
VPS29	-0.224459	10.831515	-2.93266	0.0167007	0.16701	-3.202385
TESK1	0.3387117	8.4359024	2.9323517	0.016709	0.16701	-3.202874
TNS3	0.2573667	10.095586	2.9321259	0.0167152	0.16701	-3.203232
RIC8A	0.2586286	9.9286384	2.9320096	0.0167183	0.16701	-3.203416
ANKRA2	-0.298215	8.0793989	-2.927367	0.016845	0.16803	-3.210777
ATXN7L2	0.2291188	8.0018316	2.9272452	0.0168483	0.16803	-3.210971
RNASEH1	0.2490356	10.538587	2.9270252	0.0168543	0.16803	-3.21132
SLBP	-0.245876	9.87154	-2.926143	0.0168785	0.16804	-3.212719
USMG5	-0.223918	8.3014338	-2.926125	0.016879	0.16804	-3.212747
TIMP1	0.2940234	8.1378372	2.925122	0.0169066	0.16814	-3.214338
SPHK2	0.2225527	10.40777	2.924942	0.0169115	0.16814	-3.214623
CLPP	0.2247538	9.9629058	2.9236202	0.0169479	0.16838	-3.216719
PNPLA2	0.3498823	7.7915345	2.9220211	0.016992	0.16865	-3.219255
HK1	0.2463834	9.1310057	2.9218157	0.0169977	0.16865	-3.219581
C9orf16	0.3066237	8.0801598	2.919993	0.0170482	0.16903	-3.222471
B4GALT4	-0.264746	7.671801	-2.919425	0.0170639	0.16908	-3.223372
SLC7A5	0.2775563	11.95206	2.9186347	0.0170859	0.16918	-3.224625
PHF20	0.2442196	7.7923183	2.9163209	0.0171503	0.16949	-3.228294
DVL3	0.2528627	8.0614997	2.9161474	0.0171551	0.16949	-3.228569
HNRNPAB	0.2187088	11.113679	2.9155896	0.0171707	0.16949	-3.229454
SNORD6	-0.34359	7.8518876	-2.914997	0.0171873	0.16949	-3.230394
UGT1A6	0.262688	7.1089788	2.914799	0.0171928	0.16949	-3.230707
CBLN1	0.2701583	6.8796921	2.9147577	0.0171939	0.16949	-3.230773
GON4L	0.2072428	8.2418707	2.9145367	0.0172001	0.16949	-3.231123
TMEM250	0.2926645	9.236486	2.9141802	0.0172101	0.16949	-3.231689
SEPHS1	-0.239603	9.6260016	-2.913011	0.0172429	0.1697	-3.233543
UBC	0.1955383	11.717642	2.9112365	0.0172927	0.17	-3.236357
ESYT1	0.384095	10.216373	2.9110972	0.0172966	0.17	-3.236578
NIPSNAP1	0.4009127	10.379291	2.9094732	0.0173424	0.17033	-3.239153
SNORD87	-0.397767	7.3904518	-2.907457	0.0173994	0.17059	-3.242351
SCAF4	0.3882956	8.7841923	2.9071646	0.0174077	0.17059	-3.242815
XPO6	0.3777247	9.3073169	2.9069358	0.0174141	0.17059	-3.243178
ZBED5	-0.226555	9.3813148	-2.906888	0.0174155	0.17059	-3.243254
VRK1	-0.48629	9.3832525	-2.90582	0.0174458	0.17075	-3.244947
SUGP1	0.2364362	9.2534308	2.9054759	0.0174556	0.17075	-3.245493
SEC22A	-0.261432	9.0433938	-2.903437	0.0175136	0.17116	-3.248726
SYNGR3	0.2149338	7.4268351	2.9032052	0.0175202	0.17116	-3.249094
NLRP11	-0.280997	8.3752177	-2.902069	0.0175526	0.17131	-3.250896
LSM3	-0.289224	11.346077	-2.901826	0.0175595	0.17131	-3.251281
GLOD4	-0.433225	10.003248	-2.90095	0.0175846	0.17138	-3.25267
ACAP1	0.3197674	8.631038	2.9007619	0.01759	0.17138	-3.252969
KLHDC2	-0.436451	9.829614	-2.900214	0.0176057	0.17141	-3.253838

ARMCX6	-0.178383	8.1352705	-2.899833	0.0176166	0.17141	-3.254442
GOLT1B	-0.376417	9.0058656	-2.898447	0.0176564	0.17157	-3.25664
CDK14	-0.284853	8.7083157	-2.897432	0.0176856	0.17157	-3.25825
ZC3HAV1	0.2029002	8.3161019	2.8974031	0.0176864	0.17157	-3.258296
FRG1	-0.403197	9.7560074	-2.897315	0.0176889	0.17157	-3.258435
ACY3	-0.198695	6.9643898	-2.897217	0.0176918	0.17157	-3.258591
RSPH4A	-0.246051	7.1199268	-2.896659	0.0177078	0.17161	-3.259475
C1orf53	-0.225894	8.6412597	-2.895651	0.0177369	0.17172	-3.261074
SLCO3A1	0.3092352	7.9801948	2.8954633	0.0177423	0.17172	-3.261372
GPATCH8	0.2112648	7.2113567	2.8948659	0.0177596	0.17177	-3.26232
VN2R17P	0.2010397	7.1715557	2.8938428	0.0177892	0.17187	-3.263942
NDUFV1	0.3363227	11.437643	2.8936069	0.017796	0.17187	-3.264316
CCDC6	0.2715907	10.681586	2.8932893	0.0178052	0.17187	-3.26482
VPS18	0.2787225	8.0785937	2.8926934	0.0178225	0.17187	-3.265765
CREBZF	-0.206365	7.9978078	-2.892463	0.0178292	0.17187	-3.26613
MCUR1	0.2844733	9.6661347	2.8919426	0.0178443	0.17191	-3.266956
KCNN3	0.3138681	8.3032542	2.8914402	0.0178589	0.17193	-3.267753
MMP11	-0.206659	6.8195966	-2.891016	0.0178712	0.17194	-3.268426
UBL4A	0.248521	8.7158379	2.8896118	0.0179121	0.17222	-3.270653
TOGARAM1	-0.464662	7.8643468	-2.888269	0.0179514	0.17248	-3.272783
ZCCHC3	0.1858071	7.7405797	2.8877318	0.0179671	0.17248	-3.273634
SNORD69	-0.280751	7.8771732	-2.887479	0.0179745	0.17248	-3.274036
TMEM260	-0.202019	7.0965618	-2.884152	0.0180721	0.17325	-3.279312
ARV1	-0.25736	8.4689137	-2.883924	0.0180788	0.17325	-3.279674
DHX16	0.3890421	9.7099461	2.8830612	0.0181042	0.17338	-3.281042
ADPRM	-0.211334	7.8532703	-2.88205	0.0181341	0.17355	-3.282645
CREM	-0.240891	7.0160856	-2.881277	0.0181569	0.17356	-3.283872
CLASP1	0.2262341	8.4962512	2.880645	0.0181756	0.17356	-3.284874
REEP6	0.2098424	7.5907434	2.8800445	0.0181934	0.17356	-3.285827
RRN3	-0.282538	8.883117	-2.879933	0.0181967	0.17356	-3.286003
CDC42EP5	0.2095363	6.8952677	2.8794247	0.0182118	0.17356	-3.28681
KLHL8	0.2236456	8.7574756	2.8792295	0.0182176	0.17356	-3.287119
UBE2H	0.2283257	7.6557293	2.8792099	0.0182181	0.17356	-3.28715
PPP3R1	0.3245198	9.9757312	2.8783941	0.0182424	0.17368	-3.288444
DGCR6L	0.2081258	8.7807088	2.8772198	0.0182773	0.17372	-3.290307
CCDC112	-0.231586	7.5707697	-2.877205	0.0182777	0.17372	-3.29033
LOC1000085	0.4920559	12.161455	2.8770287	0.018283	0.17372	-3.29061
N6AMT1	-0.186892	7.119662	-2.875417	0.0183311	0.17407	-3.293166
GCNA	-0.233144	7.1627673	-2.873696	0.0183825	0.17442	-3.295895
TMEM14EP	0.2120865	7.0121795	2.8730653	0.0184014	0.17442	-3.296896
ZFP62	-0.230743	7.2504238	-2.872885	0.0184068	0.17442	-3.297182
IKBIP	-0.229959	7.5079258	-2.872574	0.0184161	0.17442	-3.297675
ETV5	0.2052472	7.2212861	2.8721254	0.0184296	0.17444	-3.298387

GRIK5	-0.232555	6.9049492	-2.871404	0.0184513	0.17453	-3.299531
SCYL3	-0.182678	7.7443722	-2.870304	0.0184844	0.17473	-3.301275
MVD	0.304057	8.3390073	2.8688092	0.0185295	0.17494	-3.303647
TMEM108	-0.274472	7.2777212	-2.868761	0.0185309	0.17494	-3.303722
FBXO4	-0.242543	7.6604031	-2.867763	0.0185611	0.17505	-3.305305
SLC20A1	0.2901308	10.893512	2.8675973	0.0185661	0.17505	-3.305569
ALG14	-0.184876	7.8857282	-2.867116	0.0185806	0.17507	-3.306332
ZNF609	0.1983974	7.5639518	2.8665105	0.018599	0.17513	-3.307292
UBR4	0.4282574	9.6555928	2.8660488	0.018613	0.17515	-3.308025
THAP1	-0.228472	7.5967586	-2.864973	0.0186457	0.17527	-3.309732
ACACB	-0.227274	7.7768045	-2.864852	0.0186493	0.17527	-3.309922
RELA	0.2527057	7.5756187	2.8636171	0.0186869	0.1755	-3.311882
CEP295	-0.215038	7.7231041	-2.862993	0.0187059	0.1755	-3.312872
CHMP2B	-0.311456	8.9438429	-2.862853	0.0187102	0.1755	-3.313094
PABPC3	0.2333923	8.6158411	2.8622852	0.0187275	0.17555	-3.313994
PLOD3	0.2252419	8.3325852	2.8617788	0.018743	0.17558	-3.314797
PRKCSH	0.2570193	8.4651285	2.8599481	0.018799	0.1759	-3.317701
FKBP3	-0.28242	8.5935391	-2.859864	0.0188015	0.1759	-3.317835
PLEKHO2	0.1973556	7.5668538	2.8578574	0.0188631	0.17633	-3.321017
ST13P7	0.2191356	7.9268066	2.8573118	0.0188799	0.17633	-3.321882
ZNF691	0.1870098	7.1521087	2.857175	0.0188841	0.17633	-3.322099
ZBTB8OS	-0.215099	7.94646	-2.856812	0.0188953	0.17633	-3.322675
CD52	-0.215185	11.368317	-2.85431	0.0189725	0.17694	-3.326643
C1D	-0.222715	7.2651618	-2.8526	0.0190255	0.1773	-3.329355
TTC8	-0.244692	7.4135371	-2.852104	0.0190409	0.1773	-3.330141
TMEM101	0.2644926	9.4059478	2.851475	0.0190604	0.1773	-3.33114
PRIM2	-0.284091	7.4538804	-2.851314	0.0190654	0.1773	-3.331396
SNORD50B	-0.244248	6.9058061	-2.850821	0.0190807	0.1773	-3.332176
C22orf46	0.1902616	7.5465159	2.8507081	0.0190843	0.1773	-3.332356
CCDC58	-0.425172	9.1955504	-2.849087	0.0191348	0.17747	-3.334928
SLC25A6	0.3125948	12.364599	2.8490243	0.0191367	0.17747	-3.335026
DNAJC8	-0.273619	12.796949	-2.848943	0.0191393	0.17747	-3.335156
CHAMP1	0.2815691	9.9970765	2.8484758	0.0191538	0.17748	-3.335896
NVL	-0.202497	8.782833	-2.847966	0.0191698	0.17748	-3.336704
TRMT2B	0.2121253	7.4052032	2.8477305	0.0191771	0.17748	-3.337079
ELP4	-0.210378	8.0318323	-2.846706	0.0192092	0.17748	-3.338703
SLC22A10	0.2390717	6.9377695	2.8464569	0.019217	0.17748	-3.339099
LDHB	-0.294651	12.783962	-2.846205	0.0192249	0.17748	-3.339499
GALNT2	0.2058093	7.2410029	2.8461865	0.0192255	0.17748	-3.339527
ZNF181	-0.288124	7.0552679	-2.845647	0.0192424	0.17752	-3.340383
KCTD6	-0.202685	8.4535648	-2.843595	0.0193069	0.17801	-3.343638
TMEM14B	-0.452609	11.283763	-2.842785	0.0193324	0.17813	-3.344923
CXXC5	0.4727307	11.110171	2.8419606	0.0193584	0.17816	-3.34623

KIZ	-0.262575	7.0633929	-2.841814	0.0193631	0.17816	-3.346462
LASP1	0.282691	11.807246	2.8412406	0.0193812	0.17816	-3.347372
ZNF383	-0.331464	7.199876	-2.841071	0.0193865	0.17816	-3.347641
RBL2	-0.18533	9.4468977	-2.84074	0.019397	0.17816	-3.348165
ACIN1	0.3726565	9.3788939	2.8402259	0.0194133	0.1782	-3.348981
MSN	0.3680754	11.188312	2.8392508	0.0194442	0.17826	-3.350527
GPNMB	-0.219424	7.7036137	-2.839107	0.0194487	0.17826	-3.350756
COMMD2	-0.293565	8.520501	-2.838731	0.0194607	0.17826	-3.351351
IL11RA	-0.224535	7.2478981	-2.838294	0.0194745	0.17826	-3.352044
MRPL21	-0.208303	10.399489	-2.838085	0.0194812	0.17826	-3.352376
RPL5	-0.223964	13.282386	-2.837711	0.0194931	0.17826	-3.352969
TUBE1	-0.296763	7.3906578	-2.83637	0.0195357	0.17847	-3.355096
CLEC4A	-0.228517	7.7305693	-2.836115	0.0195439	0.17847	-3.355501
RSPRY1	0.3096058	9.3025819	2.8352221	0.0195724	0.17847	-3.356917
TRAK2	0.2161959	8.3130174	2.8351284	0.0195754	0.17847	-3.357066
C19orf71	0.2802891	7.0876111	2.8350621	0.0195775	0.17847	-3.357171
IGLL3P	-0.263415	8.7647211	-2.834054	0.0196097	0.17855	-3.358769
SLC3A2	0.2832249	8.5012138	2.8340332	0.0196104	0.17855	-3.358802
HACL1	-0.298036	10.411912	-2.832609	0.019656	0.17883	-3.361061
BTG1	0.2498843	11.182485	2.8323019	0.0196658	0.17883	-3.361548
AKAP13	0.1912025	8.2953114	2.8311827	0.0197018	0.17905	-3.363323
RPSA	-0.29784	11.277202	-2.830765	0.0197152	0.17906	-3.363986
ALG5	-0.181388	9.9234148	-2.830101	0.0197366	0.1791	-3.365039
TRANK1	0.2940426	8.3979701	2.8298048	0.0197461	0.1791	-3.365508
G3BP1	-0.21496	9.0898983	-2.82946	0.0197572	0.1791	-3.366055
GIGYF2	0.1717344	7.5998622	2.8288764	0.019776	0.17916	-3.366981
KRTAP22-1	0.1980833	6.8708175	2.8284144	0.0197909	0.17919	-3.367713
SCARNA9	-0.242334	9.2624132	-2.826946	0.0198384	0.1795	-3.370042
SPI1	0.3465803	8.6962427	2.826414	0.0198556	0.17955	-3.370886
NDRG3	0.2006844	9.0963033	2.823216	0.0199595	0.1803	-3.375957
ELOVL3	0.2148729	7.0023716	2.8231143	0.0199628	0.1803	-3.376119
TIMMDC1	-0.27092	7.6026188	-2.822555	0.0199811	0.18035	-3.377006
STARD7	0.235167	9.8535075	2.8210632	0.0200298	0.18057	-3.379371
NRK	-0.23372	7.2757279	-2.820878	0.0200358	0.18057	-3.379666
ZNF674-AS1	0.2308189	7.1734929	2.8200213	0.0200639	0.18057	-3.381024
DDIT4	0.2366136	10.180106	2.8198045	0.020071	0.18057	-3.381368
FARSA	0.3287215	8.8363373	2.8197158	0.0200739	0.18057	-3.381508
MFHAS1	0.204854	7.2026539	2.8195238	0.0200802	0.18057	-3.381813
NDUFS8	0.3380006	12.622935	2.8186583	0.0201085	0.18063	-3.383185
SRPRA	0.1924928	8.998389	2.8183812	0.0201176	0.18063	-3.383625
ESCO1	-0.33121	7.6286281	-2.818193	0.0201238	0.18063	-3.383923
C10orf88	-0.285605	7.8531412	-2.815726	0.020205	0.18125	-3.387836
LRRC28	0.2579933	8.4539162	2.815016	0.0202284	0.18127	-3.388961

AGPAT2	0.1986273	7.7886668	2.8149098	0.0202319	0.18127	-3.38913
CYB5R3	0.2382459	10.572263	2.813706	0.0202717	0.18148	-3.391039
HNRNPM	0.3354293	10.673015	2.8132439	0.020287	0.18148	-3.391771
COA6	-0.186673	7.843438	-2.812843	0.0203003	0.18148	-3.392407
RRS1	0.1961558	9.9357966	2.8123839	0.0203155	0.18148	-3.393135
ISCA2	-0.25395	8.3189673	-2.81137	0.0203492	0.18148	-3.394742
ANGEL1	0.3060525	8.1142857	2.8111319	0.0203571	0.18148	-3.395121
CUTC	-0.250529	9.8187303	-2.811063	0.0203594	0.18148	-3.39523
LOC1001282	0.4093275	9.6699198	2.810963	0.0203627	0.18148	-3.395388
INTS5	0.2855682	8.2110544	2.810574	0.0203756	0.18148	-3.396005
FARS2	-0.195894	9.0864723	-2.810457	0.0203795	0.18148	-3.396191
ICAM3	0.2420891	9.575471	2.8096306	0.020407	0.18151	-3.397501
H1FX	0.1795613	7.2283824	2.8096107	0.0204077	0.18151	-3.397533
ZMIZ2	0.2070197	8.5039875	2.8087903	0.0204351	0.18164	-3.398834
HIBADH	-0.199704	9.8085408	-2.806562	0.0205095	0.18204	-3.402367
HDGF	0.2531712	10.027673	2.8063025	0.0205182	0.18204	-3.402778
FAM49B	-0.275274	8.8939643	-2.80598	0.020529	0.18204	-3.403289
SMG8	-0.212813	8.803465	-2.805895	0.0205319	0.18204	-3.403424
CD83	0.2401849	11.522014	2.8052843	0.0205524	0.18204	-3.404393
COQ10A	-0.196498	8.3674988	-2.805195	0.0205553	0.18204	-3.404534
ESPL1	0.2806284	8.3219115	2.8044823	0.0205793	0.18214	-3.405665
GABRE	0.279925	7.1719245	2.8031757	0.0206232	0.18233	-3.407736
MCTS1	-0.521805	8.9871116	-2.80311	0.0206255	0.18233	-3.407841
TRIM26	0.4015005	8.8616182	2.8020696	0.0206605	0.18252	-3.40949
1-Sep	0.2551767	7.6347369	2.8017491	0.0206713	0.18252	-3.409999
PTBP3	0.3039585	10.595343	2.8009298	0.020699	0.18265	-3.411298
DCAF15	0.2757902	7.4031752	2.8000772	0.0207279	0.18279	-3.41265
CENPX	-0.292677	11.399237	-2.796405	0.0208525	0.18377	-3.418471
USP42	0.2254074	8.4169608	2.7960859	0.0208634	0.18377	-3.418978
SERPINH1	-0.303173	7.0712084	-2.795357	0.0208882	0.18387	-3.420134
DGUOK	-0.205493	9.5095217	-2.791143	0.0210325	0.18503	-3.426815
ANKRD17	0.2284449	8.4297438	2.7901519	0.0210666	0.18522	-3.428386
SNORA40	-0.173395	6.8656746	-2.789539	0.0210877	0.18524	-3.429359
YIPF5	-0.244114	7.2898357	-2.789355	0.021094	0.18524	-3.42965
PITPNC1	0.229892	7.9134095	2.7887403	0.0211152	0.18531	-3.430624
CSRP1	0.3739259	9.8806869	2.7869061	0.0211786	0.18551	-3.433532
TNKS1BP1	0.2411384	7.1893505	2.7868547	0.0211804	0.18551	-3.433614
HIKESHI	-0.235682	8.8139749	-2.786483	0.0211932	0.18551	-3.434202
ACTG1	0.4687879	13.231541	2.7862612	0.0212009	0.18551	-3.434555
COX7C	-0.292386	13.866821	-2.785599	0.0212239	0.18551	-3.435605
SCARNA16	-0.222181	7.8198803	-2.785522	0.0212265	0.18551	-3.435726
SNORA6	-0.313441	8.3342789	-2.785518	0.0212267	0.18551	-3.435734
RAC2	0.3826059	12.734888	2.78439	0.0212658	0.18574	-3.437521

TRPC4	-0.203505	6.9505378	-2.783997	0.0212795	0.18575	-3.438145
NAF1	0.2790248	8.2364048	2.7824118	0.0213347	0.18596	-3.440657
EIF4EBP2	0.2113382	8.7810248	2.7808345	0.0213897	0.18596	-3.443158
TAF7	-0.28656	9.7928514	-2.780831	0.0213898	0.18596	-3.443163
OAZ2	0.3567294	8.5260088	2.7808043	0.0213908	0.18596	-3.443206
SLC38A1	0.401581	9.0354566	2.7804224	0.0214041	0.18596	-3.443811
NDUFA11	0.3031713	12.038046	2.7803973	0.021405	0.18596	-3.443851
SNORA62	-0.250102	8.453759	-2.780117	0.0214148	0.18596	-3.444296
HIST1H4C	0.5073981	13.931074	2.7795581	0.0214344	0.18596	-3.445181
CSTF3	-0.197353	9.2451642	-2.779412	0.0214395	0.18596	-3.445412
SMIM14	0.202018	10.717411	2.778642	0.0214665	0.18596	-3.446633
JUND	0.36813	11.942372	2.7785378	0.0214701	0.18596	-3.446799
PSMD7	0.2292126	10.927845	2.778469	0.0214725	0.18596	-3.446908
ATP5G2	0.1812943	10.049154	2.7779406	0.0214911	0.18596	-3.447745
L3MBTL2	0.2069024	9.1676679	2.7777102	0.0214992	0.18596	-3.44811
SIRT4	-0.220542	7.2607137	-2.777611	0.0215027	0.18596	-3.448268
ANKRD39	0.284174	8.8376372	2.7774899	0.0215069	0.18596	-3.44846
MFSD6	0.2101222	8.5772965	2.7768311	0.0215301	0.18603	-3.449504
CLDND1	-0.226706	9.7882173	-2.776525	0.0215408	0.18603	-3.449989
IL21R	0.1713795	7.8813857	2.7752182	0.0215869	0.18632	-3.452061
ZNF559	-0.233342	7.7166351	-2.774359	0.0216172	0.18647	-3.453423
CALM1	0.2111109	10.803626	2.7731269	0.0216608	0.18651	-3.455376
METTL5	-0.357515	10.859283	-2.772713	0.0216755	0.18651	-3.456032
APBB1IP	0.5435949	9.9919491	2.7725258	0.0216821	0.18651	-3.456329
CDKN2AIP	-0.374096	8.9122126	-2.772524	0.0216822	0.18651	-3.456332
HEXDC	-0.334168	7.6566569	-2.772407	0.0216863	0.18651	-3.456517
ADORA2A	0.367409	8.812765	2.7708957	0.0217399	0.1868	-3.458912
FIZ1	0.1895897	7.8568573	2.7707376	0.0217455	0.1868	-3.459163
SNRPA1	0.1977615	11.797311	2.76973	0.0217814	0.187	-3.46076
TTC7A	0.1837689	7.3443484	2.76836	0.0218302	0.18731	-3.462932
MRPL13	-0.318271	10.947018	-2.767738	0.0218524	0.18739	-3.463917
AGAP4	-0.185074	6.9974506	-2.76687	0.0218834	0.18746	-3.465293
SNORA28	-0.339776	7.6107465	-2.766785	0.0218865	0.18746	-3.465428
ACOT13	-0.368135	9.623842	-2.766025	0.0219137	0.18758	-3.466632
VEGFA	-0.22125	7.254093	-2.76524	0.0219418	0.18771	-3.467876
CIPC	-0.172526	9.3458673	-2.763847	0.0219918	0.18796	-3.470084
ABCF1	0.2135912	10.47576	2.7632381	0.0220137	0.18796	-3.47105
C1orf109	-0.199049	8.448847	-2.763044	0.0220207	0.18796	-3.471357
GPS1	0.1973095	8.8438609	2.762999	0.0220223	0.18796	-3.471429
ZNF581	0.463133	10.85853	2.7624789	0.0220411	0.18801	-3.472253
ZNF679	-0.263269	7.6012684	-2.760762	0.022103	0.18841	-3.474974
INO80D	0.2684255	7.9861404	2.7604767	0.0221133	0.18841	-3.475426
PCMTD1	-0.294778	8.5371743	-2.759091	0.0221635	0.18873	-3.477622

MIS12	-0.316611	10.142223	-2.758493	0.0221851	0.1888	-3.478569
CCT7	0.1845972	11.594837	2.7575283	0.0222202	0.18899	-3.480099
POC1B	-0.278437	8.4060365	-2.756868	0.0222442	0.18908	-3.481145
HNRNPDL	-0.408495	9.177736	-2.755492	0.0222943	0.18937	-3.483326
SNRNP70	0.3127872	9.3339159	2.7549643	0.0223135	0.18937	-3.484162
CPT2	0.3027369	9.2847506	2.7548713	0.0223169	0.18937	-3.484309
FBXO38	-0.22757	7.9305033	-2.753944	0.0223508	0.18946	-3.485779
STYK1	0.247337	7.1441327	2.7538644	0.0223537	0.18946	-3.485905
ICK	0.199761	7.8133451	2.752898	0.022389	0.18956	-3.487436
ZNF263	0.2314925	9.3933201	2.7524998	0.0224036	0.18956	-3.488067
MED25	0.4619814	8.5224933	2.7524833	0.0224042	0.18956	-3.488094
NFKBIB	0.221293	8.0849456	2.7505811	0.022474	0.19001	-3.491108
NR2C1	-0.202146	8.1815784	-2.750328	0.0224833	0.19001	-3.49151
KIDINS220	0.2882297	8.9463705	2.7488713	0.0225369	0.19021	-3.493817
VPS50	-0.248895	7.3544643	-2.748721	0.0225425	0.19021	-3.494056
NDUFB3	-0.269542	12.08725	-2.748629	0.0225458	0.19021	-3.4942
WNK1	0.2494305	8.0234449	2.7482173	0.022561	0.19022	-3.494853
OMA1	-0.193988	7.9387849	-2.745403	0.0226651	0.19099	-3.499313
ARMC6	0.2353602	8.3754797	2.7429698	0.0227555	0.19164	-3.503168
CARD9	-0.299157	7.142247	-2.742216	0.0227835	0.19177	-3.504362
OXSM	-0.19696	7.6206651	-2.741674	0.0228037	0.1918	-3.505221
MUM1	0.1864068	9.3242224	2.7411545	0.0228231	0.1918	-3.506044
FIBCD1	0.1883039	7.0466312	2.7410516	0.022827	0.1918	-3.506207
WNT8A	-0.221819	6.942515	-2.739793	0.022874	0.19209	-3.5082
BCL2	0.2308396	8.2268186	2.7383651	0.0229275	0.19235	-3.510463
NCALD	-0.269991	8.8839177	-2.738242	0.0229321	0.19235	-3.510659
SNRPE	-0.270654	7.5532877	-2.737826	0.0229477	0.19237	-3.511318
RBM4B	-0.199498	8.8009785	-2.736827	0.0229853	0.19241	-3.512901
RBM42	0.4560166	9.2012173	2.7366651	0.0229913	0.19241	-3.513156
AMFR	0.2730546	9.3083318	2.7365586	0.0229954	0.19241	-3.513325
RNF111	0.1736096	7.0144283	2.7362938	0.0230053	0.19241	-3.513745
TPP1	0.4850963	9.145476	2.7353195	0.023042	0.19261	-3.515288
SNORA5A	-0.277455	7.345003	-2.73498	0.0230548	0.19261	-3.515827
URGCP	0.2376164	8.4322594	2.7341897	0.0230846	0.19275	-3.517078
TKT	0.3700464	12.508921	2.7334057	0.0231142	0.19282	-3.51832
INO80B	0.2412945	8.1508937	2.733258	0.0231198	0.19282	-3.518554
H3F3B	0.2066517	9.6577078	2.7326982	0.023141	0.19282	-3.519441
UBA1	0.5033966	9.6617554	2.7325619	0.0231462	0.19282	-3.519657
OTUD3	0.1962689	7.2036348	2.7310716	0.0232027	0.19301	-3.522017
FAM50A	-0.312229	11.572524	-2.731021	0.0232046	0.19301	-3.522097
ETFA	-0.222794	11.467658	-2.730895	0.0232094	0.19301	-3.522297
SULT1A2	-0.209464	7.2748396	-2.730503	0.0232243	0.19303	-3.522918
ZBTB14	-0.214894	8.5157443	-2.729642	0.023257	0.19317	-3.524282

CCNE2	-0.35073	9.2446377	-2.728836	0.0232877	0.19317	-3.525559
L2HGDH	0.2471823	8.4820354	2.7288295	0.0232879	0.19317	-3.525569
SNORA2C	-0.207792	7.2620434	-2.728378	0.0233052	0.19317	-3.526284
SLC30A6	-0.205472	7.0864792	-2.72814	0.0233142	0.19317	-3.526661
EIF3K	0.3106477	12.483704	2.7279581	0.0233212	0.19317	-3.526949
PPP3CB	0.172581	9.7317458	2.7265368	0.0233755	0.19351	-3.5292
MYH3	-0.442611	7.5469943	-2.725525	0.0234142	0.19367	-3.530803
MED7	-0.237965	7.9876511	-2.724995	0.0234345	0.19367	-3.531643
SRGN	0.2037827	11.713113	2.7249642	0.0234357	0.19367	-3.531691
SLC31A1	0.2966166	8.7731194	2.7246017	0.0234496	0.19367	-3.532265
C17orf53	0.194071	8.6638686	2.7243244	0.0234602	0.19367	-3.532705
UCP2	0.4779027	10.560342	2.72339	0.0234961	0.19385	-3.534185
LPGAT1	0.1927643	7.4466659	2.7227823	0.0235195	0.19386	-3.535147
INCENP	0.1691183	7.7101332	2.7226785	0.0235235	0.19386	-3.535311
TP53INP1	-0.207521	7.3700212	-2.721452	0.0235707	0.19414	-3.537253
COLGALT1	0.25059	10.238786	2.7209754	0.0235891	0.19415	-3.538009
GOLPH3L	0.2733116	8.2584987	2.7203816	0.0236121	0.19415	-3.538949
TPI1	0.2627865	13.190565	2.7201155	0.0236223	0.19415	-3.53937
DSTN	-0.170605	9.4418202	-2.720042	0.0236252	0.19415	-3.539487
PTCD2	0.1796655	8.2378918	2.7185148	0.0236843	0.19453	-3.541906
JMJD7-PLA2	-0.393758	8.246519	-2.716938	0.0237455	0.19492	-3.544403
CDKN2B	0.1956177	6.9651363	2.7156438	0.0237958	0.19511	-3.546452
C1orf50	-0.21134	9.409205	-2.715467	0.0238027	0.19511	-3.546732
SBNO2	0.2919523	7.2094177	2.7153064	0.023809	0.19511	-3.546986
CACTIN	0.2394567	7.4723752	2.71478	0.0238295	0.19517	-3.54782
SLC25A27	-0.329366	7.7053392	-2.712866	0.0239042	0.1954	-3.55085
ITGA3	-0.174509	6.8708947	-2.712739	0.0239092	0.1954	-3.551052
PEX2	-0.264854	9.3569505	-2.712531	0.0239174	0.1954	-3.551381
SLC25A42	-0.176746	8.0954743	-2.71253	0.0239174	0.1954	-3.551383
NDUFB4	-0.274204	7.1634637	-2.712042	0.0239365	0.1954	-3.552156
TIMM17B	0.1813642	9.0679291	2.7119917	0.0239385	0.1954	-3.552235
PLA2G2C	-0.313356	7.2028359	-2.711368	0.0239629	0.19544	-3.553222
RIMBP3	-0.369112	6.9863166	-2.711201	0.0239695	0.19544	-3.553487
ICE1	-0.229552	7.8895373	-2.709506	0.024036	0.19587	-3.55617
ATG9A	0.2642714	8.0754241	2.7080882	0.0240919	0.19614	-3.558416
BCAR3	0.2487939	8.5954799	2.7079895	0.0240958	0.19614	-3.558572
CD37	0.4720141	9.7389738	2.7071993	0.024127	0.19617	-3.559823
LRRC37B	-0.316371	8.6110134	-2.706663	0.0241482	0.19617	-3.560672
KIAA1522	0.251744	7.0398	2.7063396	0.024161	0.19617	-3.561184
ZNF496	-0.183036	6.9618534	-2.705727	0.0241852	0.19617	-3.562155
ARMT1	-0.263391	7.6682492	-2.705696	0.0241864	0.19617	-3.562204
STRN	0.1665766	7.4412204	2.7044438	0.024236	0.19617	-3.564186
LRRIQ3	-0.181102	6.9145798	-2.704382	0.0242385	0.19617	-3.564283

AASDH	-0.409105	8.1893203	-2.704148	0.0242478	0.19617	-3.564653
C1orf228	-0.22555	6.9878625	-2.704115	0.0242491	0.19617	-3.564706
RBM12B	0.2429917	7.8813484	2.7033588	0.0242791	0.19617	-3.565903
KIF21B	0.2303349	7.7015584	2.7033312	0.0242802	0.19617	-3.565947
SUV39H1	0.2351122	9.8792691	2.7026323	0.024308	0.19617	-3.567054
LIN54	0.1988605	8.0945567	2.7026228	0.0243084	0.19617	-3.567069
CLYBL	-0.181803	7.6118458	-2.70248	0.0243141	0.19617	-3.567294
ACTR5	-0.212689	8.3315601	-2.702258	0.0243229	0.19617	-3.567646
ZSWIM7	-0.31115	9.1134746	-2.701948	0.0243353	0.19617	-3.568137
CDCA5	0.380639	10.616449	2.7018159	0.0243405	0.19617	-3.568346
EPS15L1	0.1926221	7.5543667	2.7017715	0.0243423	0.19617	-3.568416
EMC2	-0.211967	7.5765895	-2.701446	0.0243553	0.19617	-3.568932
LINC00636	0.1795108	7.1932185	2.7008949	0.0243772	0.19624	-3.569804
SF3B3	0.2773842	9.9787371	2.7005241	0.024392	0.19625	-3.570391
SCAMP3	0.2061609	8.9351258	2.7001375	0.0244075	0.19627	-3.571003
PKHD1L1	-0.281048	7.5112749	-2.697864	0.0244985	0.19676	-3.574602
FLVCR2	0.1936968	7.8107262	2.6970841	0.0245298	0.19676	-3.575836
MYH10	0.3178525	9.8721838	2.6969877	0.0245337	0.19676	-3.575989
ZDHHC21	-0.233414	6.833616	-2.696895	0.0245374	0.19676	-3.576135
PPM1G	0.250353	7.2841009	2.6966152	0.0245486	0.19676	-3.576578
GTF2F1	0.3860903	8.9656123	2.6965945	0.0245495	0.19676	-3.576611
SNORD34	-0.253179	7.5360171	-2.696096	0.0245695	0.1968	-3.577401
C6orf183	0.2346611	7.4810196	2.695799	0.0245815	0.1968	-3.57787
UNC93B1	0.2775129	8.3877906	2.6953852	0.0245981	0.19683	-3.578525
TBC1D13	0.191812	7.8883715	2.6940042	0.0246538	0.19716	-3.580711
TGM3	0.2015591	7.076122	2.6927152	0.0247059	0.19747	-3.582751
QKI	0.2513061	7.2544455	2.692313	0.0247222	0.19749	-3.583388
GTF3C5	0.343073	8.662098	2.6911997	0.0247673	0.19766	-3.58515
TK1	0.3640994	8.7855685	2.6911147	0.0247707	0.19766	-3.585284
SLC45A3	0.3252314	8.6689914	2.6906495	0.0247896	0.19771	-3.586021
CCDC106	-0.397073	10.447304	-2.689691	0.0248285	0.19789	-3.587537
DNAJC19	-0.17821	7.8454329	-2.689406	0.0248401	0.19789	-3.587988
CARD19	-0.246433	7.7927012	-2.6877	0.0249096	0.1981	-3.590688
MCFD2	-0.228822	8.162842	-2.686792	0.0249467	0.1981	-3.592126
PRKDC	0.221322	8.8297474	2.6867736	0.0249474	0.1981	-3.592154
NSUN6	-0.200753	7.7270854	-2.686404	0.0249625	0.1981	-3.592739
TEX33	0.1877779	7.0526026	2.6863989	0.0249627	0.1981	-3.592747
PATL1	0.188952	10.255439	2.6860312	0.0249777	0.1981	-3.593329
IDH1	-0.2389	9.3425173	-2.685869	0.0249844	0.1981	-3.593586
KRBOX4	-0.196326	7.0089091	-2.685824	0.0249862	0.1981	-3.593657
CKAP4	0.2564912	8.5890127	2.6857761	0.0249882	0.1981	-3.593733
RPS26	0.2290183	10.47543	2.6831988	0.0250939	0.19875	-3.597811
PRMT3	-0.374431	11.077236	-2.683103	0.0250978	0.19875	-3.597963

SLC16A2	0.1846642	7.0922655	2.6821122	0.0251386	0.19875	-3.599531
TTLL11	-0.211162	7.0918455	-2.681612	0.0251592	0.19875	-3.600322
DDN	0.2996708	8.4304179	2.6815771	0.0251606	0.19875	-3.600377
SLC4A11	-0.177453	6.8078031	-2.681493	0.0251641	0.19875	-3.60051
FNBP4	-0.368085	10.052239	-2.681046	0.0251825	0.19875	-3.601218
NAA15	0.2779268	8.8063549	2.6807327	0.0251954	0.19875	-3.601713
HGH1	0.1675554	6.9505998	2.6804844	0.0252056	0.19875	-3.602106
MED20	-0.285007	10.187718	-2.680455	0.0252069	0.19875	-3.602153
SNORA64	-0.362285	8.0494045	-2.678373	0.0252929	0.19933	-3.605446
DCAF11	0.1656015	7.6590466	2.6775764	0.025326	0.19948	-3.606707
IRF2BP1	0.256515	7.477424	2.6769088	0.0253537	0.1995	-3.607763
BRIP1	-0.18049	6.963285	-2.676623	0.0253655	0.1995	-3.608215
CLPTM1	0.5513406	9.4717548	2.6765175	0.0253699	0.1995	-3.608382
GALT	-0.19059	8.1048335	-2.675629	0.0254069	0.19957	-3.609787
GTF2H3	0.2787422	8.6769526	2.6753767	0.0254174	0.19957	-3.610187
MRPL2	0.3733776	9.4754769	2.6751607	0.0254264	0.19957	-3.610529
MBTPS2	0.1842796	7.6020504	2.6749918	0.0254334	0.19957	-3.610796
PRPF31	0.2109298	10.180413	2.6743315	0.0254609	0.19968	-3.61184
LMAN2	0.2068584	7.5778209	2.6737295	0.025486	0.19976	-3.612793
C16orf91	-0.230713	8.4700979	-2.673441	0.0254981	0.19976	-3.613249
N4BP2L1	-0.207883	7.1331248	-2.672381	0.0255424	0.2	-3.614926
TNPO3	0.387559	8.9566277	2.6719221	0.0255616	0.20004	-3.615652
CD79A	0.2337042	10.129439	2.6701427	0.0256362	0.20051	-3.618466
TRIAP1	-0.29612	9.7249445	-2.669611	0.0256586	0.20058	-3.619308
CAAP1	-0.441998	8.5886904	-2.669035	0.0256828	0.20066	-3.620219
MTM1	-0.178088	7.2462867	-2.668594	0.0257013	0.2007	-3.620916
CFAP206	-0.19671	6.9472557	-2.66791	0.0257301	0.20081	-3.621999
BBX	0.6407902	9.4089983	2.6676235	0.0257422	0.20081	-3.622451
ABCF2	0.247874	8.9161526	2.6668231	0.025776	0.20096	-3.623717
TRMT1	-0.229726	9.7076079	-2.666268	0.0257994	0.20104	-3.624595
NUP155	0.2365685	8.4494925	2.6653247	0.0258393	0.20122	-3.626087
BTK	-0.299302	10.855741	-2.66506	0.0258505	0.20122	-3.626505
NUTM2A-AS	-0.196823	7.0360647	-2.664535	0.0258728	0.20129	-3.627336
PSMA3	-0.249949	10.797069	-2.663942	0.0258979	0.20137	-3.628273
NRROS	0.4244377	8.3893366	2.6619236	0.0259837	0.20183	-3.631465
LRRFIP1	0.4370086	9.5731101	2.6618362	0.0259874	0.20183	-3.631604
ZNF512	-0.241386	9.322706	-2.66158	0.0259983	0.20183	-3.632009
CERS5	-0.193024	7.9915148	-2.660534	0.0260429	0.20192	-3.633663
TP63	0.2589217	9.098204	2.6603457	0.0260509	0.20192	-3.633961
ZNF232	-0.270041	8.9493008	-2.660342	0.0260511	0.20192	-3.633967
ZNF394	0.2502724	8.7377279	2.6594449	0.0260894	0.20211	-3.635385
PMP22	0.2044323	6.7732465	2.6590292	0.0261072	0.20214	-3.636042
IFI30	0.3563838	10.751912	2.6585546	0.0261275	0.20219	-3.636793

GTF2F2	-0.187595	10.179225	-2.657198	0.0261856	0.20253	-3.638938
LOC155060	-0.498749	7.9812052	-2.656833	0.0262013	0.20255	-3.639515
COPG2	0.3357844	9.0871989	2.6561995	0.0262285	0.20257	-3.640517
ZNF860	0.1952123	7.6723409	2.6558763	0.0262424	0.20257	-3.641028
RNF38	0.2057976	7.9498085	2.6557927	0.026246	0.20257	-3.64116
ACSL1	-0.38538	9.2616759	-2.654141	0.0263171	0.20292	-3.643771
NRIP1	-0.168018	7.008447	-2.654097	0.026319	0.20292	-3.64384
MAP4K1	0.4125042	10.550927	2.6530292	0.0263651	0.20317	-3.645529
AUH	-0.261599	8.0257416	-2.652658	0.0263811	0.20318	-3.646115
YBX1	0.2222482	13.084733	2.6517306	0.0264212	0.20335	-3.647582
DNA2	-0.164623	7.8124831	-2.651396	0.0264357	0.20335	-3.64811
STK11	0.1711742	7.759676	2.6510573	0.0264504	0.20335	-3.648646
ZBED4	0.2678077	8.9749206	2.6508746	0.0264583	0.20335	-3.648935
ZSCAN32	-0.18551	8.9796584	-2.649659	0.0265111	0.20365	-3.650857
FANCI	-0.381084	8.8592025	-2.648304	0.02657	0.20395	-3.652998
MTDH	0.2349282	10.695774	2.6481079	0.0265785	0.20395	-3.653309
SHISA3	0.1652665	6.9290981	2.6461307	0.0266647	0.2045	-3.656434
U2AF1	-0.240733	9.0485642	-2.644794	0.0267232	0.20476	-3.658546
SNHG6	-0.325826	12.634097	-2.64474	0.0267256	0.20476	-3.658633
DOLK	0.2914609	7.7287706	2.643593	0.0267759	0.20487	-3.660445
HOMEZ	-0.202679	6.9905187	-2.643126	0.0267963	0.20487	-3.661182
ERC1	0.310417	7.8836964	2.6430812	0.0267983	0.20487	-3.661254
SNX17	0.2218324	10.163699	2.6423764	0.0268293	0.20487	-3.662367
NELFB	0.3128483	8.5919777	2.6422562	0.0268346	0.20487	-3.662557
RWDD3	-0.209398	7.167293	-2.642214	0.0268364	0.20487	-3.662624
OSGEP	-0.342342	8.8230034	-2.642147	0.0268394	0.20487	-3.66273
USP53	-0.224863	7.0012666	-2.640072	0.0269308	0.20547	-3.66601
AP5S1	0.2097848	8.0377613	2.6397381	0.0269455	0.20547	-3.666537
ZNF836	0.213238	7.0013579	2.6388876	0.0269831	0.20555	-3.667881
FCRL3	-0.165476	9.1190084	-2.638615	0.0269951	0.20555	-3.668311
NOL12	-0.333689	9.8342151	-2.638532	0.0269988	0.20555	-3.668443
ERMAP	-0.178638	7.0933056	-2.637993	0.0270227	0.20563	-3.669294
KLRC1	-0.177856	6.9136219	-2.636499	0.0270889	0.20577	-3.671655
RRP1B	0.3499142	9.0041718	2.6363973	0.0270934	0.20577	-3.671816
PCNX1	0.1998595	8.602372	2.6362067	0.0271019	0.20577	-3.672117
FABP5P3	-0.318952	7.8966057	-2.636014	0.0271105	0.20577	-3.672421
SNORA11D	-0.209288	7.1505273	-2.635352	0.0271399	0.20577	-3.673467
TARBP1	-0.259713	8.1722869	-2.634933	0.0271585	0.20577	-3.674129
FRS3	-0.216722	8.1938755	-2.634775	0.0271656	0.20577	-3.67438
SDCBP2	0.1808228	6.9033692	2.6347714	0.0271657	0.20577	-3.674385
SNORD14B	-0.29825	7.3430826	-2.634203	0.0271911	0.20577	-3.675284
ATIC	0.3006513	12.354265	2.6340991	0.0271957	0.20577	-3.675447
CRYGS	-0.213065	7.0781816	-2.633863	0.0272062	0.20577	-3.675821

FAM219B	-0.191269	8.0128937	-2.633765	0.0272106	0.20577	-3.675975
NPL	-0.177564	7.8273485	-2.631497	0.0273119	0.20643	-3.679558
LONP1	0.3055776	10.310839	2.6306531	0.0273497	0.20661	-3.680891
NT5M	0.207579	7.6259754	2.6290418	0.027422	0.20705	-3.683437
PARP10	-0.326086	8.6167183	-2.627244	0.0275029	0.20755	-3.686277
PRMT6	0.1864558	9.330742	2.6268526	0.0275206	0.20758	-3.686895
STK40	0.3341813	8.6414447	2.6250738	0.0276009	0.20798	-3.689704
FOXK2	0.1836332	7.4681221	2.6250097	0.0276038	0.20798	-3.689806
PGAM1	0.3482733	11.296069	2.6247315	0.0276164	0.20798	-3.690245
C9orf106	0.171705	6.9876612	2.6243785	0.0276324	0.20799	-3.690803
RPL14	-0.433059	10.441181	-2.622429	0.0277208	0.20844	-3.693881
SFT2D1	-0.230153	12.24519	-2.622423	0.0277211	0.20844	-3.693891
MRPS16	0.2220715	10.182911	2.6217835	0.0277502	0.20856	-3.694901
ARHGAP21	0.2776495	9.2508002	2.6208359	0.0277933	0.20877	-3.696397
EMC8	-0.171448	9.0195405	-2.619321	0.0278624	0.20917	-3.69879
SIX5	-0.173186	7.2303796	-2.618931	0.0278802	0.20917	-3.699406
TOMM22	-0.171816	11.445167	-2.61873	0.0278894	0.20917	-3.699723
PSMD2	0.2911883	10.305178	2.618017	0.027922	0.20931	-3.700849
ZNF521	-0.196972	7.0112651	-2.617567	0.0279426	0.20935	-3.70156
MRPS18C	-0.168296	11.647437	-2.616233	0.0280038	0.20963	-3.703666
SSBP3	0.2927799	7.3097994	2.6155616	0.0280346	0.20963	-3.704726
ESRRA	0.250208	9.2538251	2.6145466	0.0280813	0.20963	-3.706328
RAD23B	0.2597034	9.5981948	2.6144597	0.0280853	0.20963	-3.706466
RBFOX2	0.4106085	8.5894146	2.6144371	0.0280864	0.20963	-3.706501
FAM46A	0.2189282	7.9018325	2.6140909	0.0281023	0.20963	-3.707048
ACTR2	0.3702458	11.554775	2.614073	0.0281031	0.20963	-3.707076
C1orf189	-0.159362	6.9489637	-2.613779	0.0281167	0.20963	-3.707541
SWT1	-0.205467	7.0594088	-2.613732	0.0281189	0.20963	-3.707615
JMJD4	0.2983481	7.9860739	2.613654	0.0281224	0.20963	-3.707738
KCNN4	0.1648101	7.5427122	2.6129905	0.028153	0.20972	-3.708785
TP53INP2	0.1795313	7.5416408	2.6127608	0.0281636	0.20972	-3.709148
PGAP3	0.1780789	7.5743623	2.611292	0.0282315	0.21012	-3.711467
GKN2	0.1703678	7.0597371	2.609934	0.0282944	0.21048	-3.71361
THOP1	0.3796027	9.9397082	2.6095096	0.0283141	0.21052	-3.71428
PFKP	0.1899588	8.5479037	2.608011	0.0283838	0.21093	-3.716646
HSD17B10	0.2364664	9.5656692	2.6075981	0.028403	0.21096	-3.717297
SLC25A45	0.1620141	7.1264003	2.6069347	0.0284339	0.21108	-3.718345
GRWD1	0.3518142	9.7741706	2.604883	0.0285297	0.21169	-3.721583
SERPINB9	0.2536202	7.3335588	2.6041818	0.0285625	0.21182	-3.72269
ANAPC15	0.2807535	8.6253514	2.6031247	0.0286121	0.21188	-3.724358
CEP83	-0.255108	7.7555294	-2.60312	0.0286123	0.21188	-3.724365
TSPYL2	0.1916753	7.515541	2.6030836	0.028614	0.21188	-3.724423
PSMC4	0.3274616	9.504592	2.6025199	0.0286404	0.21188	-3.725312

BCKDHB	-0.182007	8.487675	-2.602106	0.0286599	0.21188	-3.725966
MAN2C1	-0.211896	7.2546934	-2.602087	0.0286608	0.21188	-3.725996
TMCO1	-0.221328	10.662409	-2.601848	0.028672	0.21188	-3.726372
MAMDC4	-0.174493	7.0795969	-2.601462	0.0286902	0.21191	-3.726982
B4GALT2	0.1857637	7.5079073	2.6007745	0.0287225	0.21197	-3.728067
CDC20B	0.2108247	6.9388733	2.6006769	0.0287271	0.21197	-3.728221
BASP1	0.2372107	12.132979	2.6002618	0.0287467	0.212	-3.728876
GRPEL2	-0.335332	9.0104553	-2.599303	0.0287919	0.21223	-3.730389
FBXO5	-0.237995	8.8490116	-2.598471	0.0288312	0.21231	-3.731701
ZNF148	0.5275252	8.9991541	2.5977495	0.0288653	0.21231	-3.73284
PAFAH1B1	0.2301558	9.8411011	2.5974768	0.0288782	0.21231	-3.73327
AMMECR1	0.1979853	8.0188535	2.5974617	0.0288789	0.21231	-3.733294
ENO1	0.1795377	14.137301	2.5972666	0.0288882	0.21231	-3.733602
NT5DC3	0.1795505	7.9959366	2.5972449	0.0288892	0.21231	-3.733636
BAP1	0.2611085	7.9484036	2.5956472	0.028965	0.21275	-3.736157
IFT57	-0.469374	9.0398805	-2.594817	0.0290044	0.21291	-3.737466
TRPC4AP	0.2576262	8.9834102	2.5945802	0.0290157	0.21291	-3.73784
ARHGAP15	-0.22233	9.9449823	-2.5942	0.0290338	0.21294	-3.738439
TMBIM6	0.3803093	11.03383	2.5937162	0.0290568	0.213	-3.739203
LRRC61	0.2413095	7.1599388	2.5930312	0.0290895	0.21313	-3.740284
VKORC1L1	-0.260782	8.7719475	-2.592249	0.0291268	0.2133	-3.741517
TADA3	0.2384219	8.3385241	2.5909146	0.0291906	0.21343	-3.743622
ERO1A	0.2406559	8.472208	2.590823	0.029195	0.21343	-3.743767
RPS21	0.2103835	12.778209	2.5907498	0.0291985	0.21343	-3.743882
GTSF1	0.2003225	6.9100162	2.5906393	0.0292038	0.21343	-3.744057
JSRP1	-0.31085	7.9415199	-2.589742	0.0292468	0.21356	-3.745472
FABP6	-0.172603	7.0000342	-2.589457	0.0292604	0.21356	-3.745921
TPGS1	0.2065987	7.2645659	2.5893528	0.0292654	0.21356	-3.746086
SPOP	0.2697198	10.82621	2.5889659	0.029284	0.21359	-3.746696
SHC1	0.205017	8.1421501	2.5886576	0.0292988	0.21359	-3.747182
THOC2	0.2695103	8.3334206	2.5881171	0.0293248	0.21362	-3.748035
HADHA	-0.29202	9.044623	-2.587893	0.0293356	0.21362	-3.748389
HSP90AB1	0.4097389	12.343825	2.5876803	0.0293458	0.21362	-3.748724
PPP2R5A	0.2507392	8.4778699	2.5869656	0.0293802	0.21376	-3.749851
CCDC126	-0.213719	7.464496	-2.586633	0.0293962	0.21377	-3.750375
NUDT2	-0.220982	8.9335793	-2.584396	0.0295042	0.21431	-3.753903
PLIN5	0.3652052	8.2028331	2.5842276	0.0295124	0.21431	-3.754169
VTI1B	-0.247606	8.6877951	-2.584077	0.0295197	0.21431	-3.754406
URB2	0.2145242	8.4820867	2.5838748	0.0295295	0.21431	-3.754725
DGAT2	0.1839767	7.3718622	2.5834233	0.0295514	0.21436	-3.755437
UBE2M	0.1877558	11.996853	2.5831332	0.0295654	0.21436	-3.755894
NRIP3	0.1903989	7.425751	2.5824454	0.0295988	0.2145	-3.756979
BBS2	-0.242252	7.977336	-2.581995	0.0296207	0.21455	-3.75769

MED19	0.2696397	9.1817608	2.581299	0.0296545	0.21469	-3.758786
LAMTOR1	0.3173725	10.678968	2.5808784	0.0296749	0.21469	-3.75945
AP5Z1	0.2349618	7.223516	2.5803627	0.0297	0.21469	-3.760263
ZDHHC7	0.1736778	9.590762	2.5800788	0.0297139	0.21469	-3.76071
AP2B1	0.194396	7.8347435	2.5800689	0.0297143	0.21469	-3.760726
MASTL	-0.196291	8.0193977	-2.579513	0.0297414	0.21478	-3.761602
COX14	-0.361707	9.0311717	-2.578917	0.0297705	0.21484	-3.762542
TUFM	0.3253649	10.817821	2.5787547	0.0297784	0.21484	-3.762798
ARL6	-0.198345	7.0876321	-2.57824	0.0298036	0.21491	-3.763609
NDUFB6	-0.245089	10.127343	-2.577335	0.0298478	0.21513	-3.765035
MAP7D2	-0.264202	10.092118	-2.57631	0.0298981	0.21538	-3.766652
KIAA0907	-0.425998	9.7546637	-2.575615	0.0299322	0.21542	-3.767748
PTDSS2	0.2250053	8.7094395	2.5756024	0.0299328	0.21542	-3.767767
ZNF14	0.2311505	9.3916808	2.5751901	0.029953	0.21546	-3.768417
FICD	0.3263085	7.7750492	2.5742585	0.0299988	0.21565	-3.769886
TRIM33	0.2370514	8.9206287	2.5734694	0.0300377	0.21565	-3.771129
ZC3H12C	0.219793	7.2983223	2.5734482	0.0300387	0.21565	-3.771163
PPFIBP2	-0.235143	9.242839	-2.573275	0.0300472	0.21565	-3.771435
SNORA17A	-0.181857	7.0491349	-2.573152	0.0300533	0.21565	-3.77163
GAPDH	0.1994185	13.613399	2.5716872	0.0301256	0.21597	-3.773938
TALDO1	0.2785244	12.507899	2.5712931	0.030145	0.21597	-3.774559
RBX1	-0.291251	11.8649	-2.571166	0.0301513	0.21597	-3.77476
NUP133	0.198889	9.8245078	2.5710329	0.0301579	0.21597	-3.774969
CXCR4	-0.216268	8.6360464	-2.569712	0.0302233	0.21623	-3.777051
HEATR5B	0.198209	8.6479133	2.5694326	0.0302371	0.21623	-3.777491
CHD7	0.2669365	9.2551411	2.5692505	0.0302462	0.21623	-3.777778
POLD2	0.3326381	9.5097814	2.5691058	0.0302534	0.21623	-3.778006
TATDN1	-0.249486	8.5151685	-2.568286	0.0302941	0.21642	-3.779298
PRR13	0.169337	10.229498	2.5673196	0.0303421	0.21656	-3.780821
SLC25A12	-0.219561	8.2515246	-2.567289	0.0303436	0.21656	-3.780869
NBAS	0.2197788	7.6621641	2.5655065	0.0304325	0.21709	-3.783678
URB1-AS1	-0.192399	7.1557046	-2.564732	0.0304711	0.21723	-3.784899
MAU2	0.1822226	8.0875969	2.5644953	0.030483	0.21723	-3.785271
SON	0.2308713	8.5341904	2.564188	0.0304983	0.21723	-3.785755
COX20	-0.265828	8.8605869	-2.563928	0.0305113	0.21723	-3.786165
CCDC51	0.2039208	9.2742036	2.5634331	0.0305361	0.2173	-3.786945
SETD2	0.2343796	9.2811635	2.5631168	0.0305519	0.2173	-3.787443
FUK	-0.238378	8.0848819	-2.562399	0.0305879	0.21745	-3.788573
TEX261	0.1799868	8.2243787	2.5619309	0.0306114	0.21751	-3.789311
PPP1R21	-0.25844	8.7423618	-2.561294	0.0306434	0.21764	-3.790315
CAMKMT	-0.186351	8.545016	-2.560842	0.0306661	0.21769	-3.791026
NTM	-0.199756	6.9933017	-2.559947	0.0307112	0.21772	-3.792437
YPEL5	-0.252132	8.7471453	-2.559912	0.0307129	0.21772	-3.792491

CDK10	-0.221902	8.1403306	-2.559877	0.0307147	0.21772	-3.792546
CHM	-0.173424	7.5308027	-2.559295	0.030744	0.21778	-3.793463
TTC23	0.1761884	7.3255135	2.5591134	0.0307532	0.21778	-3.793749
SNORA74A	-0.167151	7.1223908	-2.55811	0.0308039	0.218	-3.79533
LILRA5	0.202501	7.1111198	2.5572549	0.0308471	0.218	-3.796677
PDLIM1	0.2000621	8.0380546	2.5571855	0.0308506	0.218	-3.796786
MYO9A	0.2173933	7.9109307	2.5568658	0.0308668	0.218	-3.797289
MAP4	0.297211	7.6725057	2.5568411	0.030868	0.218	-3.797328
CREBBP	0.1702646	7.72269	2.5567187	0.0308742	0.218	-3.797521
SRF	0.2170189	10.58487	2.5550924	0.0309567	0.21848	-3.800082
SMAP2	0.175661	10.055271	2.5545328	0.0309851	0.21857	-3.800964
PGM1	0.1812978	11.439314	2.5531184	0.031057	0.21886	-3.803191
MVP	0.3190409	8.0882282	2.5530931	0.0310583	0.21886	-3.803231
TOP2B	0.330032	10.482735	2.5528548	0.0310705	0.21886	-3.803606
BANF1	0.2853603	9.9528279	2.5498395	0.0312245	0.21984	-3.808354
TGFBR2	0.1705046	8.7207503	2.5495363	0.03124	0.21984	-3.808831
MCM3AP-AS	0.267745	7.7362861	2.5488812	0.0312736	0.21996	-3.809862
ERN1	-0.197518	8.0007096	-2.548624	0.0312868	0.21996	-3.810268
EIF4B	0.1699148	12.655407	2.5474796	0.0313456	0.22019	-3.812069
SRP14	-0.210803	11.489994	-2.547125	0.0313638	0.22019	-3.812627
COQ3	-0.267584	9.6955319	-2.547099	0.0313652	0.22019	-3.812668
RNASET2	-0.336614	10.722421	-2.546547	0.0313936	0.22028	-3.813537
DNAH1	-0.229492	7.194797	-2.545333	0.0314561	0.22054	-3.815447
TNKS2	0.2291455	6.9595759	2.5452562	0.0314601	0.22054	-3.815569
PARP8	-0.230862	9.0377258	-2.544659	0.0314909	0.22063	-3.816508
RRP7A	0.2753688	10.937497	2.5444255	0.031503	0.22063	-3.816876
SHARPIN	0.2477326	7.7155289	2.5437957	0.0315355	0.22073	-3.817868
SNORA73B	-0.417166	8.740088	-2.543549	0.0315483	0.22073	-3.818256
CUL4A	-0.215764	10.018176	-2.54241	0.0316073	0.22095	-3.820049
C12orf73	-0.161169	7.1673326	-2.54237	0.0316093	0.22095	-3.820111
ZNF439	-0.196644	7.6925878	-2.542006	0.0316282	0.22095	-3.820685
NCR3LG1	0.3766033	9.1165678	2.5417843	0.0316397	0.22095	-3.821033
NAB2	0.2428166	7.6158708	2.540881	0.0316866	0.22117	-3.822455
FDPSP2	0.2178899	6.9627446	2.5399884	0.0317331	0.22139	-3.82386
MLLT10	-0.221809	8.0199694	-2.539589	0.0317539	0.22143	-3.824488
VHL	0.2744673	9.0587114	2.5390176	0.0317836	0.22146	-3.825387
HMGB1	-0.249091	8.133411	-2.538907	0.0317894	0.22146	-3.825562
HKR1	-0.256033	6.9683058	-2.537574	0.031859	0.22184	-3.827658
PRKRIP1	-0.336909	8.5926758	-2.536574	0.0319113	0.22196	-3.829232
S100A10	0.2217863	8.6961535	2.5362007	0.0319308	0.22196	-3.82982
NEFH	-0.192795	7.0355673	-2.535774	0.0319532	0.22196	-3.830491
WBP11P1	0.1638498	7.0283627	2.5355961	0.0319625	0.22196	-3.830771
SNX5	-0.24705	9.6088482	-2.535493	0.0319679	0.22196	-3.830933

VPS4A	0.2134086	8.190771	2.5352752	0.0319793	0.22196	-3.831276
AUNIP	-0.236519	8.9772387	-2.534852	0.0320015	0.22196	-3.831942
KLHL28	0.1953334	7.8891109	2.5346864	0.0320102	0.22196	-3.832202
UNC119	-0.190725	8.6929118	-2.534643	0.0320125	0.22196	-3.832271
MAP3K3	0.1779204	7.4144567	2.5340541	0.0320434	0.22207	-3.833197
SNORD24	-0.203452	6.8910465	-2.533735	0.0320602	0.22208	-3.833699
TSR3	0.2254429	8.0572432	2.5328501	0.0321068	0.2223	-3.835091
ZNF468	0.219843	7.6468043	2.5324972	0.0321254	0.2223	-3.835646
AAGAB	-0.227342	9.2255847	-2.532248	0.0321385	0.2223	-3.836038
GOT2	0.3838873	12.324125	2.5312805	0.0321895	0.22238	-3.83756
GOLGA2P10	-0.414511	8.4962111	-2.531235	0.0321919	0.22238	-3.837631
SMAD9	-0.259085	7.3925236	-2.531185	0.0321946	0.22238	-3.83771
PALMD	0.2424518	7.0351977	2.5296555	0.0322754	0.22263	-3.840116
PRKCA	0.2006069	7.7061607	2.5296279	0.0322769	0.22263	-3.840159
ISG15	0.2097915	9.9337273	2.5295465	0.0322812	0.22263	-3.840287
EFCAB14	0.2556691	8.9419212	2.5293309	0.0322926	0.22263	-3.840626
SMARCC2	0.3427491	7.816001	2.5284361	0.0323401	0.22285	-3.842034
SH3BP1	0.3829607	8.015557	2.5270468	0.0324138	0.22326	-3.844218
PTP4A2	0.432152	12.51184	2.5256528	0.032488	0.22359	-3.84641
TTLL5	-0.175116	8.173729	-2.525343	0.0325045	0.22359	-3.846898
INPP1	-0.235316	7.0110518	-2.524887	0.0325289	0.22359	-3.847615
GRIN2C	-0.182096	6.9948328	-2.524505	0.0325492	0.22359	-3.848215
MEF2D	0.1659326	9.3676216	2.52438	0.0325559	0.22359	-3.848412
PKN1	0.272394	7.9449804	2.5240324	0.0325745	0.22359	-3.848958
PIGT	0.3306301	9.1695976	2.5237738	0.0325883	0.22359	-3.849365
POMGNT2	0.2022879	7.2068843	2.5236297	0.032596	0.22359	-3.849592
ARHGAP25	0.2085733	8.032835	2.5235544	0.0326	0.22359	-3.84971
YEATS4	-0.269387	9.759029	-2.522903	0.0326349	0.22372	-3.850733
COPB1	-0.238423	10.440916	-2.522367	0.0326636	0.22381	-3.851577
PNPLA6	0.3495832	9.2777983	2.5216252	0.0327033	0.22394	-3.852743
DBR1	-0.172931	7.6414454	-2.521447	0.0327129	0.22394	-3.853023
DFFB	-0.188207	8.292517	-2.520993	0.0327373	0.224	-3.853737
ANKEF1	-0.207206	6.8897625	-2.520043	0.0327883	0.22425	-3.855231
SYMPK	0.2029315	7.936176	2.5196254	0.0328108	0.2243	-3.855887
TKFC	0.2088633	7.6488465	2.5187063	0.0328603	0.22453	-3.857332
PSMG1	-0.18937	11.371538	-2.517241	0.0329393	0.22488	-3.859635
TTTY4B	0.1869811	6.9192829	2.517188	0.0329422	0.22488	-3.859718
GNG3	-0.1567	6.8124589	-2.516699	0.0329686	0.22495	-3.860486
CDKN3	-0.212861	9.9501644	-2.515207	0.0330495	0.2254	-3.862832
CD80	0.1729899	8.7968214	2.5146674	0.0330787	0.22549	-3.86368
ZNF552	0.1801028	6.9395694	2.5131982	0.0331585	0.22585	-3.865988
N4BP1	0.2132476	7.2361357	2.5131331	0.033162	0.22585	-3.866091
RNF31	0.2248009	8.2736283	2.5124068	0.0332016	0.22602	-3.867232

ZC3H3	0.1740896	8.8098681	2.5117378	0.033238	0.22608	-3.868283
ALDH16A1	0.1831089	7.7513494	2.5116657	0.0332419	0.22608	-3.868396
GPR137B	0.2067459	7.443955	2.510617	0.0332992	0.22629	-3.870044
TPCN1	-0.200931	7.144184	-2.510533	0.0333037	0.22629	-3.870176
CAPZB	0.2728608	10.226657	2.5097388	0.0333472	0.2263	-3.871424
DUOXA1	-0.159459	6.804349	-2.50956	0.033357	0.2263	-3.871705
PCCA	-0.173052	7.7680977	-2.50939	0.0333662	0.2263	-3.871972
BSG	0.5312175	10.06159	2.5093045	0.0333709	0.2263	-3.872106
TNS4	-0.16481	7.1038632	-2.509087	0.0333829	0.2263	-3.872448
DYNLL1	-0.224543	12.145615	-2.508602	0.0334094	0.22637	-3.873211
TRIP4	0.2374188	8.6094308	2.5080695	0.0334386	0.22644	-3.874046
ALKBH7	0.3606734	9.4907146	2.5078568	0.0334503	0.22644	-3.874381
PLPP5	0.1524153	6.9027616	2.5073877	0.033476	0.22651	-3.875118
EFTUD2	0.3607494	10.620875	2.5070271	0.0334958	0.22654	-3.875684
KCTD20	0.4718748	9.5842214	2.5067519	0.0335109	0.22654	-3.876116
7-Sep	-0.379111	7.9072939	-2.50603	0.0335507	0.22655	-3.877251
NELFA	0.2020596	7.879679	2.5051894	0.0335969	0.22655	-3.878571
STK26	-0.26783	9.9560523	-2.505096	0.0336021	0.22655	-3.878718
HLA-DOA	0.2280237	9.7693495	2.5049512	0.0336101	0.22655	-3.878945
TSLP	0.2179506	7.0445967	2.5049355	0.0336109	0.22655	-3.878969
CIC	0.1785422	7.4863057	2.5047948	0.0336187	0.22655	-3.87919
FLNB	0.299258	9.7302485	2.5047308	0.0336222	0.22655	-3.879291
RAB9A	-0.186992	10.144884	-2.503752	0.0336762	0.22681	-3.880828
HES6	-0.308745	7.8400631	-2.502651	0.0337371	0.22705	-3.882557
GMPPB	0.2440912	8.5712515	2.5025529	0.0337425	0.22705	-3.882711
ABHD4	0.244848	7.113667	2.5021124	0.0337669	0.22708	-3.883403
PTGES2	0.2266529	10.371394	2.5016239	0.033794	0.22708	-3.88417
DZIP1	0.1785765	6.8286096	2.5013384	0.0338098	0.22708	-3.884619
CCDC74A	-0.192937	8.7907342	-2.501305	0.0338116	0.22708	-3.88467
MORF4L1	-0.333627	11.370694	-2.50106	0.0338252	0.22708	-3.885056
MED30	-0.181894	9.6177874	-2.500266	0.0338693	0.22727	-3.886303
TMUB1	0.3588133	9.1345742	2.499153	0.0339312	0.22749	-3.88805
PPP1R15A	0.2192327	9.0460121	2.4986911	0.0339569	0.22749	-3.888776
INPP5D	0.2372448	9.3596175	2.4984183	0.0339721	0.22749	-3.889204
STPG1	0.2368396	7.1346684	2.4979883	0.0339961	0.22749	-3.889879
NSMF	-0.298708	9.8502509	-2.497961	0.0339976	0.22749	-3.889921
GPR162	-0.177871	6.8013889	-2.497908	0.0340006	0.22749	-3.890004
TMEM41A	0.2340649	7.9528885	2.4977286	0.0340106	0.22749	-3.890287
SNHG11	-0.211893	7.9444259	-2.497091	0.0340461	0.22762	-3.891287
SAMD13	-0.24955	7.1503669	-2.496762	0.0340645	0.22764	-3.891804
ARHGAP30	0.2369109	8.862682	2.4949852	0.034164	0.2282	-3.894593
CYP39A1	-0.195338	7.2689318	-2.494674	0.0341814	0.22821	-3.895081
AP3S1	-0.236594	9.6438669	-2.493692	0.0342365	0.22848	-3.896623

TP53RK	0.164762	8.9479249	2.4930566	0.0342722	0.22861	-3.897621
RPL30	-0.225861	14.247725	-2.492355	0.0343117	0.22868	-3.898722
UBE4B	0.1835636	9.739375	2.4923272	0.0343132	0.22868	-3.898766
FAM175A	0.209175	8.264503	2.4920062	0.0343313	0.22869	-3.899269
RARS2	-0.197661	8.9292602	-2.491743	0.0343461	0.22869	-3.899683
EWSR1	0.1956444	10.273177	2.4909995	0.034388	0.2287	-3.900849
TSC2	0.21074	7.1786061	2.4906621	0.0344071	0.2287	-3.901379
FITM1	0.161115	6.9505487	2.4904054	0.0344215	0.2287	-3.901782
OGDH	0.2108213	7.5956965	2.4897612	0.0344579	0.2287	-3.902793
DIAPH2	-0.182378	7.8725652	-2.489718	0.0344604	0.2287	-3.90286
PHF8	0.2784271	7.1205298	2.489346	0.0344814	0.2287	-3.903444
DAPP1	-0.236653	9.5831779	-2.489267	0.0344859	0.2287	-3.903568
STXBP3	-0.306478	8.061919	-2.488868	0.0345085	0.2287	-3.904195
FAM104A	-0.269791	9.6271137	-2.488742	0.0345156	0.2287	-3.904392
PRSS8	-0.172828	6.9788039	-2.488675	0.0345194	0.2287	-3.904497
FLJ41455	-0.242018	7.2438738	-2.488655	0.0345205	0.2287	-3.904529
HSPE1	-0.289936	11.404216	-2.486774	0.0346272	0.22922	-3.907481
MTG1	-0.226956	7.7098427	-2.486323	0.0346528	0.22922	-3.908187
COX8A	0.2999687	12.878968	2.4863165	0.0346532	0.22922	-3.908198
CBX8	0.1777628	7.2422722	2.4861705	0.0346615	0.22922	-3.908427
CTDSP2	0.191269	10.20489	2.4853884	0.034706	0.22941	-3.909654
NACAP1	-0.368647	8.9542857	-2.484723	0.0347439	0.22955	-3.910698
TMEM109	0.3614519	10.035938	2.4833973	0.0348195	0.22992	-3.912777
STAU1	0.1848175	9.5493865	2.4832003	0.0348307	0.22992	-3.913086
TUBGCP5	-0.195512	8.7084581	-2.482061	0.0348959	0.23009	-3.914873
OGFRL1	-0.206773	8.3389099	-2.48205	0.0348965	0.23009	-3.914891
RBMX	0.1934973	10.357924	2.4819264	0.0349036	0.23009	-3.915085
ZNF606	-0.172262	6.8221614	-2.481008	0.0349562	0.23015	-3.916526
CAMLG	-0.20318	11.520382	-2.480733	0.0349719	0.23015	-3.916956
PRTN3	-0.163558	6.8838611	-2.480717	0.0349729	0.23015	-3.916982
ASF1B	0.3302098	9.4464092	2.4806706	0.0349755	0.23015	-3.917054
MTA2	0.2184061	9.0150481	2.4798795	0.0350209	0.23028	-3.918295
RBM33	-0.248906	7.7557233	-2.479593	0.0350374	0.23028	-3.918745
MTF2	-0.239297	8.3603246	-2.479398	0.0350486	0.23028	-3.91905
RBFA	-0.201714	8.4362267	-2.478754	0.0350856	0.23028	-3.92006
OTUD7B	-0.211474	7.1152214	-2.478681	0.0350898	0.23028	-3.920174
NONO	0.2763991	10.587393	2.4786761	0.0350901	0.23028	-3.920182
MIB1	0.2048755	7.3690679	2.4781787	0.0351188	0.23033	-3.920962
LRRC8A	0.1834426	7.5544609	2.4779919	0.0351295	0.23033	-3.921255
ZFP69	-0.24365	7.1404334	-2.4776	0.0351521	0.23038	-3.92187
UGT2B17	-0.214767	7.207465	-2.476768	0.0352001	0.23059	-3.923175
SEL1L3	-0.208174	10.675526	-2.47566	0.0352641	0.23081	-3.924911
IFFO2	0.2093808	6.9555236	2.4755993	0.0352677	0.23081	-3.925007

MCM3AP	0.2901408	9.6007319	2.4753667	0.0352811	0.23081	-3.925372
CLDN23	-0.238315	6.8904718	-2.474244	0.0353461	0.23113	-3.927132
EPX	0.2127677	7.0148633	2.4724169	0.0354522	0.23172	-3.929996
ZNF589	-0.22114	8.0172687	-2.471722	0.0354926	0.23188	-3.931085
SAT2	-0.252542	7.9686523	-2.470691	0.0355527	0.23211	-3.932701
RIPOR2	0.2386436	9.687273	2.4704203	0.0355685	0.23211	-3.933126
IL7R	0.2675082	7.8941271	2.4698803	0.0356	0.23211	-3.933972
ZNF696	0.2066999	8.7647646	2.4697771	0.035606	0.23211	-3.934134
LGALSL	-0.252915	7.7291653	-2.469691	0.035611	0.23211	-3.934268
ANKHD1	0.210838	7.6293862	2.4694689	0.035624	0.23211	-3.934617
ZPBP2	-0.172663	7.5917449	-2.469	0.0356514	0.23219	-3.935351
KDM5A	0.1675661	8.0539988	2.4677446	0.0357249	0.23243	-3.937319
C19orf44	-0.240348	7.4310406	-2.467625	0.0357319	0.23243	-3.937506
TUBB2A	0.2174535	7.8206579	2.4675416	0.0357368	0.23243	-3.937637
LRRC14	-0.336709	8.8766925	-2.466254	0.0358123	0.23282	-3.939654
RNH1	0.3094843	8.7109865	2.4658978	0.0358333	0.23285	-3.940213
FAF1	0.1992835	9.419936	2.4641397	0.0359367	0.23342	-3.942968
NDC80	-0.294639	8.6180082	-2.463175	0.0359937	0.23363	-3.94448
ZNF426	0.2122087	7.1916868	2.4629104	0.0360093	0.23363	-3.944894
RNPEPL1	0.1819623	7.2067607	2.4627742	0.0360173	0.23363	-3.945107
CNOT3	0.3408278	7.793457	2.4622966	0.0360455	0.23367	-3.945855
SNRPN	-0.169115	8.4293954	-2.462072	0.0360588	0.23367	-3.946207
HIST1H4K	0.2636362	9.1873466	2.4618533	0.0360717	0.23367	-3.94655
RPPH1	0.2197805	8.3427204	2.4609995	0.0361223	0.23389	-3.947887
USP36	-0.273398	8.1947246	-2.460736	0.0361379	0.23389	-3.948301
CCNC	-0.273658	9.9683086	-2.459816	0.0361924	0.23402	-3.949741
TSC22D4	0.1826199	7.5520109	2.459649	0.0362024	0.23402	-3.950003
FCGBP	-0.30439	9.2635505	-2.458993	0.0362413	0.23402	-3.95103
ALKBH6	-0.188343	8.3787533	-2.458703	0.0362585	0.23402	-3.951484
SETD4	-0.153402	7.4850423	-2.458548	0.0362678	0.23402	-3.951728
HSD17B11	-0.214797	7.7780244	-2.458522	0.0362693	0.23402	-3.951768
PPP2R5D	0.1502543	7.609176	2.4585032	0.0362705	0.23402	-3.951797
LINC00272	0.164518	6.9690283	2.4582551	0.0362852	0.23402	-3.952186
DUSP14	-0.188485	9.3242308	-2.456519	0.0363886	0.23455	-3.954904
SNHG10	-0.246411	7.1545098	-2.455969	0.0364215	0.23455	-3.955767
DNAJC30	0.2092013	7.1775961	2.4556973	0.0364377	0.23455	-3.956191
ZUFSP	-0.185114	8.3617542	-2.45556	0.0364459	0.23455	-3.956406
NIPSNAP3A	-0.226869	7.6583768	-2.45552	0.0364483	0.23455	-3.956469
SAMD15	0.1972159	7.6995851	2.4552324	0.0364655	0.23456	-3.956919
RARA	0.2503547	8.1421623	2.4523734	0.0366369	0.23556	-3.961396
MFSD1	-0.205615	10.418996	-2.452054	0.0366561	0.23558	-3.961895
PRSS36	0.1745535	7.2201547	2.451576	0.0366848	0.23566	-3.962644
CCZ1B	-0.181148	8.7472171	-2.450071	0.0367755	0.23614	-3.965

JAGN1	0.1905452	8.034932	2.4495113	0.0368092	0.23625	-3.965876
CHST7	0.1968337	7.3507406	2.4489719	0.0368418	0.23635	-3.96672
NEU1	0.1683212	8.2322338	2.4485069	0.0368699	0.23643	-3.967448
GRINA	0.2575118	8.355383	2.4475136	0.03693	0.23671	-3.969003
CXADRP3	0.2040949	7.0073499	2.4471852	0.0369499	0.23674	-3.969516
BTF3L4	-0.229416	9.32276	-2.446399	0.0369976	0.23694	-3.970747
SNX4	-0.399727	8.9569017	-2.444823	0.0370933	0.23745	-3.973213
NUP107	-0.307359	9.9970466	-2.444225	0.0371297	0.23757	-3.974149
GGCT	-0.16417	9.726679	-2.44372	0.0371605	0.23767	-3.974939
ANKRD13B	0.1751406	7.0675622	2.4425781	0.0372301	0.23793	-3.976725
CHAF1B	-0.269823	8.1952285	-2.442504	0.0372346	0.23793	-3.976841
RGS2	-0.290135	8.6258439	-2.442124	0.0372578	0.23793	-3.977436
PRPF18	-0.262203	7.5395941	-2.441449	0.0372991	0.23793	-3.978492
ARHGEF10	-0.181812	6.8195551	-2.441272	0.0373099	0.23793	-3.978768
NUBPL	0.3290765	9.68746	2.4412343	0.0373122	0.23793	-3.978828
VPS35	-0.313806	10.990466	-2.441168	0.0373163	0.23793	-3.978931
CERK	-0.152865	8.1364809	-2.440613	0.0373503	0.238	-3.9798
PLAU	0.1867789	7.3208833	2.4400777	0.0373831	0.238	-3.980637
STK4	0.208817	11.683984	2.4399825	0.0373889	0.238	-3.980786
RPL23AP64	-0.34092	11.949142	-2.439574	0.0374139	0.238	-3.981424
RNF19B	0.6320909	8.7220836	2.4394595	0.037421	0.238	-3.981604
TMPRSS11B	-0.169136	6.9914616	-2.439281	0.0374319	0.238	-3.981884
C12orf77	-0.210929	7.6341675	-2.439128	0.0374413	0.238	-3.982122
CFB	0.1760476	6.9740665	2.4378137	0.0375221	0.23841	-3.984178
LAS1L	0.1787347	9.8131374	2.4373731	0.0375492	0.23848	-3.984867
RAB33B	-0.375736	7.8161666	-2.435948	0.0376371	0.23894	-3.987096
DHDDS	0.1831749	8.36222	2.434783	0.037709	0.23929	-3.988917
PPP1R27	0.151147	6.8780229	2.4336018	0.0377821	0.23965	-3.990764
GALNT10	0.1552729	7.4937009	2.4328847	0.0378266	0.23982	-3.991885
FLII	0.3205662	8.2642574	2.43234	0.0378604	0.23982	-3.992737
TBC1D5	0.2186543	7.2748082	2.4319278	0.037886	0.23982	-3.993381
ADIPOR2	0.1754635	9.9821892	2.4310361	0.0379414	0.23982	-3.994775
SPIRE2	-0.166203	6.9499907	-2.430855	0.0379527	0.23982	-3.995058
CCNY	0.3043933	9.1248369	2.4308102	0.0379554	0.23982	-3.995128
AKR7A3	0.2380849	9.1221597	2.4308028	0.0379559	0.23982	-3.99514
OR1D4	0.1690011	6.9479393	2.4307963	0.0379563	0.23982	-3.99515
CHMP4B	0.1872669	9.4891267	2.4306033	0.0379683	0.23982	-3.995452
DDX51	0.2261664	9.1154431	2.4303182	0.0379861	0.23982	-3.995898
MT2A	0.412266	10.507812	2.4302429	0.0379908	0.23982	-3.996015
CTSV	-0.179777	7.1652309	-2.4296	0.0380308	0.23997	-3.997019
ZFP30	-0.158597	7.1391339	-2.4281	0.0381245	0.24041	-3.999364
CDKN2AIPNI	0.4017206	11.785646	2.42756	0.0381582	0.24041	-4.000209
EARS2	0.2301781	8.8516035	2.4274493	0.0381652	0.24041	-4.000382

ABCA8	-0.183224	6.8824842	-2.427078	0.0381884	0.24041	-4.000961
PTK2	-0.211129	7.7386961	-2.426969	0.0381952	0.24041	-4.001132
VPS26B	0.1889403	7.6417396	2.4266677	0.0382141	0.24041	-4.001603
XPNPEP3	0.2669688	9.9497594	2.4263371	0.0382348	0.24041	-4.00212
IGF2-AS	0.3011683	7.0877036	2.42623	0.0382415	0.24041	-4.002287
VOPP1	0.2132371	9.7689196	2.4261221	0.0382483	0.24041	-4.002456
SERPINB6	-0.306418	8.8761299	-2.425642	0.0382784	0.24049	-4.003205
EIF4G1	0.3937034	10.293861	2.4253291	0.0382981	0.24049	-4.003695
LARS	0.1979325	10.640402	2.4250698	0.0383143	0.24049	-4.0041
NUP35	-0.206036	8.5873223	-2.424872	0.0383268	0.24049	-4.004409
IGFLR1	0.1723952	8.0525347	2.4243073	0.0383623	0.24061	-4.005291
FCRLA	-0.319871	12.476082	-2.424006	0.0383812	0.24062	-4.005763
PHF23	-0.256489	9.4626393	-2.422668	0.0384655	0.24105	-4.007852
NCKAP1L	0.2459571	10.368046	2.4220605	0.0385038	0.24119	-4.008802
NSFL1C	0.1772307	8.9463896	2.4214295	0.0385437	0.24133	-4.009787
RPLP0	0.257982	13.455769	2.42074	0.0385873	0.24141	-4.010864
RBM23	0.2120878	10.200937	2.4207084	0.0385893	0.24141	-4.010914
PID1	-0.164323	6.8951913	-2.420018	0.0386329	0.24158	-4.011991
CHORDC1	-0.19984	8.0363235	-2.419553	0.0386624	0.24166	-4.012718
ARG2	-0.276197	7.8828606	-2.417731	0.0387781	0.24218	-4.015565
ATP5SL	0.208872	9.7089454	2.4177115	0.0387793	0.24218	-4.015594
PPP1R12B	0.168104	7.4448005	2.4168479	0.0388343	0.24242	-4.016943
STX3	-0.227409	8.1760694	-2.415595	0.0389141	0.24282	-4.0189
HTT	0.1900037	7.2994549	2.4148987	0.0389586	0.24299	-4.019987
SELL	0.1832452	7.7365298	2.414097	0.0390098	0.24312	-4.021238
DNAJC9	-0.203858	10.601864	-2.414055	0.0390125	0.24312	-4.021304
ZCCHC8	-0.162656	7.9187292	-2.413681	0.0390364	0.24317	-4.021888
PSMA6	-0.173208	12.19596	-2.412983	0.0390811	0.24334	-4.022978
UPRT	-0.265732	8.2648504	-2.412328	0.0391231	0.2435	-4.024
EXOC8	-0.186286	6.8945563	-2.412041	0.0391415	0.24351	-4.024449
SUPT5H	0.304036	9.2363543	2.411725	0.0391618	0.24353	-4.024941
LANCL2	-0.190809	8.3321115	-2.410687	0.0392284	0.24384	-4.026561
ZNF815P	0.1571522	7.0093589	2.4095484	0.0393017	0.24395	-4.028339
CD46	-0.177495	8.0268869	-2.409363	0.0393137	0.24395	-4.028629
PGM2	-0.326771	8.9303281	-2.409215	0.0393232	0.24395	-4.028859
FEM1C	0.2249681	8.5150542	2.4089938	0.0393375	0.24395	-4.029204
GPX1	-0.193071	8.2118382	-2.408762	0.0393525	0.24395	-4.029567
MKRN1	0.2400456	10.60166	2.4086857	0.0393574	0.24395	-4.029685
NUP43	0.2059904	9.0727219	2.4086013	0.0393628	0.24395	-4.029817
TBCD	0.1540836	7.7966093	2.4082047	0.0393884	0.24398	-4.030436
AKT1	0.1923093	9.5325682	2.407786	0.0394154	0.24398	-4.031089
ZNF585A	-0.203288	7.5727671	-2.407745	0.0394181	0.24398	-4.031153
LSM4	0.1653432	10.803656	2.4074988	0.039434	0.24398	-4.031538

KRCC1	-0.226044	7.8585907	-2.407157	0.0394561	0.24399	-4.032071
RPL26P30	-0.247169	10.998888	-2.406955	0.0394692	0.24399	-4.032387
DCUN1D4	-0.195835	8.0199478	-2.406489	0.0394993	0.24407	-4.033114
QRFPR	0.3035548	9.7479826	2.4055381	0.0395609	0.24435	-4.034597
RINL	0.364137	8.3532823	2.4046061	0.0396214	0.24454	-4.036051
WNT9B	-0.203602	6.9679481	-2.403618	0.0396856	0.24454	-4.037593
PCGF3	0.1993976	7.0503127	2.4033192	0.0397051	0.24454	-4.038059
ZNF627	-0.155704	8.1709238	-2.403266	0.0397086	0.24454	-4.038142
WEE1	0.2567898	9.7623427	2.4031941	0.0397132	0.24454	-4.038254
RUBCNL	-0.188635	9.5004875	-2.403168	0.0397149	0.24454	-4.038294
WASHC1	-0.255937	9.312214	-2.403034	0.0397236	0.24454	-4.038503
RNF114	-0.155573	10.163565	-2.403003	0.0397256	0.24454	-4.038551
SLC25A22	-0.32559	9.2465686	-2.402749	0.0397422	0.24454	-4.038948
EMC6	-0.238614	9.5761113	-2.402439	0.0397624	0.24456	-4.039431
ARHGEF19	-0.166582	8.0252323	-2.402007	0.0397906	0.24459	-4.040105
GPER1	-0.199431	7.8904788	-2.401487	0.0398245	0.24459	-4.040917
SLAMF1	0.1803396	9.9986072	2.4011295	0.0398478	0.24459	-4.041474
PMVK	0.3092654	9.3415424	2.4011146	0.0398488	0.24459	-4.041498
SESN1	-0.232553	8.6309931	-2.400909	0.0398622	0.24459	-4.041818
RPL9	-0.227088	12.650522	-2.400816	0.0398683	0.24459	-4.041964
NFKBIZ	-0.245764	8.2930288	-2.399759	0.0399375	0.24491	-4.043612
DDX28	0.1763753	8.8458821	2.3988363	0.0399979	0.24518	-4.045051
SVBP	-0.160294	9.4737451	-2.397185	0.0401063	0.24571	-4.047626
ITPKA	0.1615181	6.8863143	2.396996	0.0401187	0.24571	-4.04792
SENP7	-0.20279	7.2939735	-2.396511	0.0401506	0.2458	-4.048676
RAB21	0.169345	9.4677392	2.3958501	0.0401941	0.24597	-4.049707
JUP	0.1915472	7.3426068	2.3951671	0.0402391	0.24597	-4.050772
KATNB1	0.1732053	9.444149	2.3950742	0.0402453	0.24597	-4.050917
KAT14	-0.187016	8.5040119	-2.395072	0.0402454	0.24597	-4.05092
CLIP2	0.2133815	7.3669198	2.3946915	0.0402705	0.24602	-4.051513
TLN1	0.1924436	9.0185672	2.393959	0.0403189	0.24622	-4.052655
CDCA8	0.1972081	9.4501632	2.3935823	0.0403438	0.24625	-4.053242
RC3H1	0.2291188	6.9431909	2.3933649	0.0403582	0.24625	-4.053581
DPP6	-0.199049	6.8900874	-2.39225	0.040432	0.24654	-4.05532
POP7	-0.158257	9.1575945	-2.392105	0.0404416	0.24654	-4.055545
CNDP2	-0.165637	12.093636	-2.391886	0.0404561	0.24654	-4.055887
RRM2	0.2656729	8.7272303	2.3914403	0.0404856	0.24661	-4.056581
DPP9	0.3298202	8.5661139	2.3908527	0.0405247	0.24675	-4.057497
POLR2J	-0.175836	7.8058401	-2.390079	0.0405761	0.24692	-4.058703
IL10RA	0.1951124	7.8437982	2.3899321	0.0405858	0.24692	-4.058931
C1orf137	0.1979329	6.9202505	2.3896373	0.0406054	0.24693	-4.059391
LINC01000	-0.154544	6.8512264	-2.389215	0.0406335	0.247	-4.060048
PRSS53	-0.294964	7.3326613	-2.38835	0.0406912	0.24725	-4.061397

MLF2	0.4606655	10.060406	2.3869899	0.040782	0.2474	-4.063516
AVPR1B	-0.222918	6.8895321	-2.386627	0.0408062	0.2474	-4.064081
CCBE1	0.3184112	9.7533838	2.3866231	0.0408065	0.2474	-4.064087
SAR1A	-0.410449	8.9664832	-2.386544	0.0408118	0.2474	-4.06421
LRBA	0.1692548	8.4259976	2.386515	0.0408137	0.2474	-4.064256
MRPL28	0.2310778	8.0045458	2.3863299	0.0408261	0.2474	-4.064544
VAMP4	-0.207432	7.3651897	-2.386122	0.04084	0.2474	-4.064868
CHAF1A	-0.204568	7.8547396	-2.385953	0.0408513	0.2474	-4.065131
LINC01881	-0.184891	6.9482615	-2.385579	0.0408764	0.24745	-4.065714
NBR2	-0.203814	7.6088257	-2.385139	0.0409059	0.24752	-4.066399
C19orf47	0.2683484	7.2192305	2.3847697	0.0409306	0.24757	-4.066975
PGBD3	-0.180314	7.1278234	-2.383896	0.0409893	0.24782	-4.068336
MIDN	0.2763463	9.0441291	2.3833058	0.0410289	0.24796	-4.069255
CHRNA5	0.2126786	8.5976856	2.3817739	0.041132	0.24839	-4.07164
CFAP70	-0.171488	6.8432278	-2.38139	0.0411579	0.24839	-4.072238
TTC33	-0.32449	7.923222	-2.381176	0.0411723	0.24839	-4.072571
TTC27	-0.346503	10.089852	-2.381095	0.0411778	0.24839	-4.072698
TNFRSF13B	0.2361374	9.3761904	2.3809632	0.0411867	0.24839	-4.072903
CKLF	-0.19818	9.9419608	-2.380643	0.0412083	0.24839	-4.073401
SNORD56	-0.354004	7.9290816	-2.380317	0.0412303	0.24839	-4.073909
HACD3	0.1729184	9.6997974	2.3802148	0.0412373	0.24839	-4.074068
PIN4	-0.202233	7.1844491	-2.379449	0.041289	0.24854	-4.07526
KIRREL3-AS2	-0.163543	7.0331798	-2.379228	0.041304	0.24854	-4.075605
TAMM41	-0.189941	9.9428202	-2.379098	0.0413128	0.24854	-4.075807
CTNNAL1	-0.212829	9.3083948	-2.377907	0.0413935	0.24885	-4.077661
UBQLN1	0.164383	9.3084411	2.3778459	0.0413976	0.24885	-4.077757
SAMD4B	0.3267914	7.4399623	2.3767617	0.0414712	0.24919	-4.079444
CTSW	-0.151255	6.861134	-2.375567	0.0415525	0.24957	-4.081304
TAF6	0.1918416	7.2630813	2.3750085	0.0415905	0.24961	-4.082173
ADRA1A	0.1805265	6.9140361	2.374963	0.0415936	0.24961	-4.082244
MAGEA2	0.1800603	6.9110248	2.3740597	0.0416552	0.24988	-4.08365
SNRNP48	-0.207111	7.513646	-2.373213	0.041713	0.25012	-4.084967
AGAP3	0.2029687	7.8374367	2.3728119	0.0417405	0.25019	-4.085592
HIST1H2BO	-0.165528	6.9341966	-2.371626	0.0418216	0.25048	-4.087438
MZF1	-0.18671	7.7289549	-2.3716	0.0418234	0.25048	-4.087477
CRIPT	-0.240064	8.6653646	-2.370507	0.0418984	0.25082	-4.089178
ALDH2	-0.156821	6.9165434	-2.369588	0.0419615	0.2511	-4.090608
B9D2	-0.176585	8.0648414	-2.368997	0.0420022	0.25113	-4.091528
USH1G	0.2191387	7.7383107	2.3688608	0.0420115	0.25113	-4.091739
ATL3	0.2320353	10.070601	2.3684111	0.0420425	0.25113	-4.092439
ELMO3	-0.217749	7.3866808	-2.368314	0.0420492	0.25113	-4.092591
SYN1	-0.183644	7.0303631	-2.368249	0.0420537	0.25113	-4.092692
PPARGC1B	0.4671689	7.9773523	2.3672928	0.0421196	0.25113	-4.094178

DRD4	0.181733	7.3783483	2.3671415	0.04213	0.25113	-4.094414
TMEM55A	-0.253995	7.6831266	-2.367123	0.0421313	0.25113	-4.094442
C6orf203	-0.173103	7.7765186	-2.366827	0.0421517	0.25113	-4.094903
NDUFS5	-0.191846	12.729636	-2.366577	0.042169	0.25113	-4.095292
PCDHB3	0.1687852	6.8704988	2.366458	0.0421772	0.25113	-4.095477
CEP89	0.1918121	7.1987993	2.3664473	0.0421779	0.25113	-4.095494
CRTAP	0.1526949	7.7690875	2.3660986	0.042202	0.25113	-4.096036
LIX1L	-0.194466	8.2854751	-2.365991	0.0422095	0.25113	-4.096203
TMEM53	-0.16807	7.2496038	-2.36577	0.0422248	0.25113	-4.096547
DHCR24	0.2842392	9.039209	2.3651676	0.0422665	0.25123	-4.097484
STK36	-0.327691	9.439049	-2.364942	0.0422821	0.25123	-4.097835
RPS28	-0.159028	13.311387	-2.364769	0.042294	0.25123	-4.098103
ARHGEF16	0.1654333	6.8491592	2.3642281	0.0423316	0.25135	-4.098945
FBRS	0.3269982	8.2597012	2.3634226	0.0423874	0.25143	-4.100197
GSTA3	0.157516	7.0380466	2.3633586	0.0423919	0.25143	-4.100297
PARVB	0.2547435	8.0004947	2.3632949	0.0423963	0.25143	-4.100396
GMDS	-0.25512	9.9620755	-2.361861	0.042496	0.25191	-4.102625
SPDYA	-0.189197	6.8281618	-2.361646	0.042511	0.25191	-4.10296
HIGD1A	-0.163387	10.920043	-2.361393	0.0425286	0.25191	-4.103353
SASH3	0.2314831	9.7005432	2.3610872	0.0425499	0.25193	-4.103828
ADNP	0.154013	8.1806759	2.3597715	0.0426417	0.25237	-4.105874
TRIP10	0.1718869	7.1473885	2.3593749	0.0426694	0.25244	-4.10649
DYRK3	-0.204364	7.6746921	-2.358923	0.042701	0.25244	-4.107193
ISCU	-0.159478	9.6118198	-2.358548	0.0427272	0.25244	-4.107775
EPOP	0.3061009	9.0311079	2.3583118	0.0427438	0.25244	-4.108142
SLC25A28	-0.279286	10.034901	-2.358266	0.042747	0.25244	-4.108214
FAM76B	-0.268844	8.0708626	-2.357914	0.0427716	0.25244	-4.10876
LINC00167	0.1770025	6.9178014	2.3578729	0.0427745	0.25244	-4.108825
NUP160	0.1907611	9.6776038	2.3564651	0.0428732	0.25292	-4.111012
FAM76A	-0.184739	7.2226767	-2.356032	0.0429037	0.253	-4.111685
LINC01300	-0.174625	7.7160683	-2.355014	0.0429753	0.25332	-4.113267
MSH2	-0.213264	7.4637214	-2.354145	0.0430364	0.25358	-4.114617
NOL8	-0.170753	8.8433795	-2.353479	0.0430835	0.25375	-4.115653
RNF8	-0.157782	7.7564547	-2.35143	0.0432282	0.2545	-4.118835
RHOQ	0.2388226	8.8149166	2.3509344	0.0432633	0.25461	-4.119605
FBXO28	-0.211326	8.8023465	-2.350296	0.0433086	0.2547	-4.120596
SELENOO	0.2024429	7.8781287	2.3502273	0.0433135	0.2547	-4.120703
TUBB4B	0.4005763	11.019041	2.3496864	0.0433519	0.25481	-4.121543
PAIP2B	0.166279	6.9811495	2.3494588	0.043368	0.25481	-4.121897
AAMDC	-0.165792	7.759523	-2.349214	0.0433854	0.25481	-4.122276
HYPK	0.2286969	8.7791785	2.3484135	0.0434423	0.25504	-4.12352
COG7	0.2068374	7.2974082	2.348148	0.0434612	0.25505	-4.123932
ADGRG3	0.1592625	6.9692401	2.3477169	0.0434919	0.25513	-4.124602

STUB1	0.278838	9.1095751	2.3472439	0.0435256	0.25522	-4.125336
SMN2	-0.228182	7.1536293	-2.346918	0.0435489	0.25522	-4.125843
TXNL4A	0.2100015	7.543592	2.3467772	0.0435589	0.25522	-4.126061
ACOX3	0.1830808	8.2456897	2.3462543	0.0435962	0.25522	-4.126873
SNORD32B	-0.204327	6.9648717	-2.346173	0.043602	0.25522	-4.126998
TCTEX1D2	-0.196591	8.3534606	-2.346026	0.0436125	0.25522	-4.127227
MRS2	-0.175864	8.8245133	-2.345143	0.0436756	0.2554	-4.128598
FOXM1	0.2297643	8.4915693	2.3451114	0.0436779	0.2554	-4.128647
DEGS1	-0.25454	9.8146492	-2.344647	0.0437111	0.25549	-4.129367
MAGED2	-0.149203	7.1689748	-2.343716	0.0437778	0.2556	-4.130814
CLN6	0.2238425	7.5681886	2.3435731	0.043788	0.2556	-4.131035
ZNF773	0.1660208	7.623515	2.3435063	0.0437928	0.2556	-4.131139
ZNF83	-0.239975	7.9131704	-2.343191	0.0438154	0.2556	-4.131627
PRDM14	-0.142074	6.7954517	-2.343176	0.0438165	0.2556	-4.131652
ARRDC1-AS1	-0.309034	8.0197304	-2.341887	0.0439091	0.25603	-4.133652
CNST	0.360201	9.6822849	2.3414626	0.0439396	0.25611	-4.134311
SNORD13	-0.252719	7.6968181	-2.340658	0.0439975	0.25631	-4.135559
AFG1L	-0.199023	6.8563297	-2.339652	0.0440701	0.25631	-4.13712
ARCN1	0.1899796	10.179091	2.3393739	0.0440901	0.25631	-4.137552
DPH3	-0.166654	8.5227528	-2.339103	0.0441097	0.25631	-4.137972
TMEM38A	0.2818542	7.7547612	2.3390496	0.0441135	0.25631	-4.138055
MFSD10	-0.208785	10.268022	-2.338883	0.0441256	0.25631	-4.138314
CXCL13	-0.174243	6.9287592	-2.338868	0.0441267	0.25631	-4.138337
AP2A1	0.2014498	7.4177688	2.3386962	0.0441391	0.25631	-4.138603
RAB5B	0.2464286	10.295071	2.3386655	0.0441413	0.25631	-4.138651
HIF1AN	0.2113884	7.9767824	2.3385594	0.0441489	0.25631	-4.138815
COL16A1	0.1905671	6.9115095	2.3376107	0.0442176	0.25649	-4.140287
ACOX1	0.1502612	7.3450729	2.337518	0.0442243	0.25649	-4.140431
CNPPD1	0.181266	8.5824841	2.3373709	0.0442349	0.25649	-4.140659
FH	-0.310609	11.408287	-2.3371	0.0442546	0.25649	-4.14108
DNAJB6	-0.185583	9.7851445	-2.33692	0.0442676	0.25649	-4.141359
LPCAT4	0.1507741	7.5606607	2.3356946	0.0443565	0.2569	-4.14326
NOMO1	0.1880676	8.0434199	2.3353676	0.0443803	0.25693	-4.143767
PLEKHF2	-0.153597	7.9274578	-2.333626	0.044507	0.25755	-4.146468
MIS18A	-0.201121	8.4107107	-2.333234	0.0445355	0.25755	-4.147075
IFNGR1	-0.252062	9.893669	-2.333173	0.04454	0.25755	-4.147171
FAAP100	-0.294052	10.5165	-2.332068	0.0446206	0.25782	-4.148883
DNMT1	-0.193962	12.697483	-2.332064	0.0446209	0.25782	-4.14889
HEPACAM	0.1929623	6.9728413	2.3316031	0.0446546	0.25791	-4.149605
DOHH	0.1995922	7.8734684	2.331107	0.0446909	0.25802	-4.150374
CAPRIN1	0.1478618	8.883862	2.330446	0.0447393	0.25819	-4.151399
ZNF217	0.1848805	8.9156527	2.3299553	0.0447752	0.25825	-4.152159
IBSP	-0.168371	6.9978549	-2.329262	0.0448261	0.25825	-4.153235

EAPP	-0.239815	7.7506289	-2.32913	0.0448357	0.25825	-4.153439
NISCH	0.2643306	8.6251992	2.3287283	0.0448652	0.25825	-4.154061
CENPF	0.4208022	8.5777133	2.3287112	0.0448665	0.25825	-4.154088
HMGA1	0.2201279	8.3563434	2.3285572	0.0448778	0.25825	-4.154327
ZC2HC1C	-0.17804	7.0271645	-2.328483	0.0448832	0.25825	-4.154441
MTF1	0.2168032	8.2276617	2.328387	0.0448903	0.25825	-4.15459
HNRNPU	0.2263261	8.824729	2.3273657	0.0449654	0.25854	-4.156173
CIB1	-0.284585	12.105685	-2.327209	0.0449769	0.25854	-4.156416
NR1H2	0.2694731	7.8829294	2.3264182	0.0450352	0.25877	-4.157642
IER2	0.1643545	7.7662552	2.3260361	0.0450634	0.25877	-4.158234
DANCR	-0.205162	10.680761	-2.325954	0.0450694	0.25877	-4.158362
SLC35B3	-0.172776	7.869732	-2.325171	0.0451272	0.259	-4.159574
CHD5	-0.155226	6.8397445	-2.324378	0.0451859	0.25923	-4.160804
MT1E	0.1493769	7.0682003	2.3237872	0.0452295	0.25938	-4.161719
RBM6	-0.263289	8.9730714	-2.323258	0.0452688	0.2595	-4.162539
EML4	0.2572786	9.6882416	2.3228312	0.0453004	0.25958	-4.1632
LPIN1	-0.167045	8.6933217	-2.321948	0.0453659	0.25983	-4.164569
CEP68	0.2412952	7.2934103	2.3216028	0.0453915	0.25983	-4.165103
TMEM209	0.2135624	9.6980991	2.3212557	0.0454173	0.25983	-4.16564
CTSH	0.2373738	10.769147	2.3212318	0.0454191	0.25983	-4.165678
IMPDH2	0.2877146	12.687554	2.3210551	0.0454322	0.25983	-4.165951
ISOC2	0.3800196	9.8772191	2.320527	0.0454715	0.25995	-4.166769
GMIP	0.1966211	7.9724192	2.3197706	0.0455278	0.25997	-4.167941
BAX	0.1841034	7.8252658	2.3195715	0.0455427	0.25997	-4.168249
EML5	-0.149789	6.9537675	-2.319333	0.0455604	0.25997	-4.168618
ALKBH4	-0.190989	7.4780328	-2.319159	0.0455734	0.25997	-4.168888
NNAT	0.1814924	7.0315332	2.3189885	0.0455862	0.25997	-4.169152
UBIAD1	0.1656492	10.093963	2.3186016	0.045615	0.25997	-4.169751
TNFRSF10C	0.1680185	7.0844177	2.3185395	0.0456197	0.25997	-4.169847
ACAT2	-0.1621	9.418977	-2.318446	0.0456267	0.25997	-4.169993
RNF167	0.2373833	9.2460639	2.3183275	0.0456355	0.25997	-4.170176
SCLT1	-0.177726	7.1965013	-2.317538	0.0456945	0.26011	-4.171398
MACROD1	0.2176755	7.6678241	2.3175345	0.0456947	0.26011	-4.171404
OSGEPL1	-0.172844	7.6054169	-2.317081	0.0457287	0.26014	-4.172106
FAM177B	-0.197158	6.881784	-2.316857	0.0457454	0.26014	-4.172453
RC3H2	0.2099359	8.3124656	2.3166196	0.0457632	0.26014	-4.17282
RNF26	0.2397144	8.1518144	2.3164573	0.0457754	0.26014	-4.173072
POLR2D	0.1942919	9.9413752	2.3155939	0.0458401	0.26014	-4.174408
PLEK	0.2054906	13.421149	2.3154015	0.0458545	0.26014	-4.174706
RASGRP2	-0.188002	7.6862958	-2.315218	0.0458683	0.26014	-4.17499
TUBD1	-0.317371	7.28463	-2.315133	0.0458747	0.26014	-4.175122
MBD2	0.1448783	7.5443445	2.3148092	0.045899	0.26014	-4.175623
STX19	0.1547673	6.8165728	2.314591	0.0459154	0.26014	-4.175961

NDUFA3	-0.176964	12.653083	-2.314512	0.0459213	0.26014	-4.176083
RPAP3	-0.23486	8.9214114	-2.314405	0.0459294	0.26014	-4.176249
SDF2L1	-0.200521	11.770899	-2.314363	0.0459325	0.26014	-4.176313
CAPN7	-0.22784	8.0851504	-2.313216	0.0460188	0.26053	-4.17809
NCAPD2	0.4019682	10.186754	2.312614	0.0460642	0.26061	-4.179021
ADK	-0.173293	8.894102	-2.312101	0.0461029	0.26061	-4.179816
C17orf80	-0.172146	8.0087688	-2.312083	0.0461042	0.26061	-4.179843
VAT1L	-0.168908	6.9532551	-2.312083	0.0461042	0.26061	-4.179843
APOBEC3H	-0.151208	6.9926122	-2.311477	0.0461499	0.26073	-4.180781
MPC2	-0.232261	10.443239	-2.311333	0.0461608	0.26073	-4.181004
GSS	0.2681205	8.234281	2.310018	0.0462602	0.26108	-4.183038
EIF5B	0.3465603	9.348689	2.3096407	0.0462888	0.26108	-4.183622
IFI27L1	-0.218163	8.2756559	-2.309618	0.0462905	0.26108	-4.183657
ANKRD26	-0.243565	7.5070023	-2.309549	0.0462958	0.26108	-4.183764
MFSD5	0.2945791	8.6583979	2.3087877	0.0463534	0.26116	-4.184942
AGK	-0.166937	9.6988348	-2.308685	0.0463613	0.26116	-4.185102
ITPRIP	0.1820801	8.6155512	2.308655	0.0463635	0.26116	-4.185147
DNAJC10	-0.266896	8.6692883	-2.307605	0.0464432	0.26129	-4.186772
MOB1A	-0.204727	8.564228	-2.307485	0.0464523	0.26129	-4.186957
LIME1	-0.309017	9.2345129	-2.307477	0.0464529	0.26129	-4.186969
CNOT10	-0.167285	8.9409914	-2.307202	0.0464738	0.26129	-4.187395
IKBKE	0.2473355	8.377367	2.307185	0.0464751	0.26129	-4.187421
ERCC8	-0.147583	8.2562426	-2.30615	0.0465539	0.26155	-4.189022
MIR1204	-0.242387	7.3239272	-2.306097	0.0465579	0.26155	-4.189103
FHOD1	0.2544538	8.7991443	2.3048452	0.0466534	0.26177	-4.19104
TAGLN2	0.3609825	10.849819	2.3048396	0.0466538	0.26177	-4.191049
IGFL3	-0.173781	7.2770505	-2.304553	0.0466757	0.26177	-4.191493
EIF1AD	-0.28294	7.0016285	-2.304417	0.046686	0.26177	-4.191702
HUS1	-0.168119	6.9681576	-2.304235	0.0467	0.26177	-4.191983
URM1	0.3445318	10.841869	2.3041897	0.0467034	0.26177	-4.192054
EOGT	-0.161915	7.0291065	-2.303699	0.0467409	0.26178	-4.192813
SPOCK2	0.1510085	8.6579716	2.3036821	0.0467422	0.26178	-4.192839
SLC25A15	0.1704793	8.9008064	2.3034126	0.0467628	0.2618	-4.193256
SMTN	0.1909868	7.3359773	2.3016674	0.0468965	0.26239	-4.195954
PLEK2	-0.218834	6.8558348	-2.301564	0.0469045	0.26239	-4.196115
METAP1D	-0.167069	6.9494871	-2.301114	0.046939	0.26248	-4.19681
SMYD5	0.2145734	7.1850093	2.3003795	0.0469954	0.2626	-4.197945
MAP3K7CL	-0.146212	9.8438851	-2.300134	0.0470143	0.2626	-4.198324
PCK2	0.2291451	8.4212778	2.3001227	0.0470152	0.2626	-4.198342
VIM	0.2867045	10.496985	2.2998264	0.047038	0.26263	-4.1988
PIGY	-0.224827	9.7479632	-2.299408	0.0470702	0.26271	-4.199446
ALPPL2	0.1703678	6.9107487	2.2991365	0.0470911	0.26273	-4.199866
BRE	0.1795891	8.4200315	2.2987696	0.0471194	0.26273	-4.200433

EIF1	0.2492228	12.457986	2.2986729	0.0471268	0.26273	-4.200583
GCSAM	-0.165929	8.3501647	-2.297657	0.0472052	0.26287	-4.202154
SMAD3	0.2181553	7.7221614	2.2971757	0.0472424	0.26287	-4.202897
SCARNA21	-0.177341	7.0008899	-2.29716	0.0472436	0.26287	-4.202921
TRIM44	0.1854517	9.5542464	2.2969988	0.047256	0.26287	-4.20317
MAP1S	0.333477	8.2278217	2.2968728	0.0472658	0.26287	-4.203365
YLPM1	0.2259296	7.0958158	2.2967508	0.0472752	0.26287	-4.203554
SCLY	0.1897264	7.4261246	2.2966966	0.0472794	0.26287	-4.203637
SLC19A1	0.2955781	8.4577755	2.295839	0.0473458	0.26311	-4.204962
UBE2K	0.1631265	8.3784337	2.295672	0.0473587	0.26311	-4.20522
GAGE2B	-0.162693	7.2538235	-2.293377	0.0475368	0.26391	-4.208766
RPA4	-0.157952	7.0300072	-2.293355	0.0475385	0.26391	-4.208799
FRG1HP	-0.211326	7.3256993	-2.292496	0.0476053	0.2641	-4.210127
CHRAC1	0.1771946	8.1631156	2.292287	0.0476216	0.2641	-4.21045
GLIPR1	-0.201203	7.7321859	-2.292232	0.0476259	0.2641	-4.210534
MLST8	0.2738764	8.6435261	2.2919078	0.0476511	0.26412	-4.211035
DVL2	0.2252767	8.1897645	2.2917194	0.0476658	0.26412	-4.211326
APC2	0.1807234	7.1961613	2.291469	0.0476853	0.26412	-4.211713
APBA3	0.220251	8.7893018	2.2910368	0.0477191	0.26421	-4.212381
PXK	-0.167052	7.9889859	-2.290096	0.0477925	0.26446	-4.213834
SNORD25	-0.221446	7.6840991	-2.289991	0.0478008	0.26446	-4.213996
PLAA	0.2006763	7.6572469	2.2893066	0.0478543	0.26456	-4.215052
MAP4K5	-0.170874	7.5545122	-2.289291	0.0478555	0.26456	-4.215076
IGBP1P1	-0.197229	7.2606735	-2.288551	0.0479134	0.26478	-4.216219
MTX2	-0.166157	9.8796043	-2.288007	0.047956	0.26485	-4.217059
POLR3E	0.1657396	9.6316026	2.28734	0.0480084	0.26485	-4.218089
PAPD7	-0.158061	8.8198632	-2.28724	0.0480162	0.26485	-4.218243
CCDC50	0.1398684	7.9684981	2.2870915	0.0480279	0.26485	-4.218473
TNFAIP3	0.2194595	9.4452889	2.2869305	0.0480406	0.26485	-4.218721
SELENOS	-0.196858	8.9409011	-2.286919	0.0480415	0.26485	-4.218739
FGFR1OP2	-0.344997	7.8222907	-2.286777	0.0480526	0.26485	-4.218958
ZNF557	0.2011195	7.870199	2.2854443	0.0481574	0.26531	-4.221015
PRMT5	0.1968278	10.383936	2.2852553	0.0481723	0.26531	-4.221307
EDEM2	-0.147508	8.4756036	-2.285018	0.048191	0.26531	-4.221673
PUM2	0.1908887	9.142827	2.2848036	0.0482079	0.26531	-4.222004
RAB8A	0.1892847	10.68898	2.2831029	0.0483421	0.26594	-4.224629
CABIN1	0.2557178	7.6873032	2.2828833	0.0483595	0.26594	-4.224967
PVRIG	0.2114933	9.7428038	2.282193	0.0484141	0.26614	-4.226033
ATP6V0E2	0.2130362	10.464286	2.281868	0.0484398	0.26618	-4.226534
MIR101-1	-0.169162	6.8585569	-2.280753	0.0485282	0.26657	-4.228255
MAGED1	0.1788455	9.3226419	2.2801986	0.0485722	0.2667	-4.22911
HIST1H2BD	-0.188181	7.9119675	-2.27982	0.0486023	0.2667	-4.229694
FANCB	-0.205323	7.5665931	-2.279756	0.0486074	0.2667	-4.229793

ABTB2	0.1563794	7.1337111	2.2795373	0.0486248	0.2667	-4.23013
TMEM41B	-0.403595	9.0817009	-2.279296	0.048644	0.2667	-4.230502
INTS10	-0.180662	9.5503707	-2.278738	0.0486883	0.26684	-4.231362
BTBD11	0.1599743	6.9215274	2.2783155	0.048722	0.26685	-4.232014
FNTA	-0.142997	8.4529169	-2.278208	0.0487305	0.26685	-4.23218
HACD1	0.1465358	6.7944165	2.2780446	0.0487436	0.26685	-4.232432
SEC16A	0.3123399	9.2816534	2.2776038	0.0487787	0.26694	-4.233112
LRR1	-0.161256	8.6400408	-2.277023	0.048825	0.26694	-4.234007
PLSCR4	0.1551118	7.0485122	2.2767971	0.0488431	0.26694	-4.234356
TMEM177	0.1911164	9.1296829	2.2767785	0.0488445	0.26694	-4.234385
KCNE5	0.1687156	7.1386189	2.2766739	0.0488529	0.26694	-4.234546
LINC01451	-0.144719	6.878868	-2.275142	0.0489754	0.26751	-4.236908
TRAP1	0.2388111	10.024599	2.2742775	0.0490446	0.26772	-4.238241
MFAP3L	0.1474432	6.8221163	2.2742228	0.049049	0.26772	-4.238325
NCL	0.2059204	11.095365	2.2739897	0.0490677	0.26772	-4.238685
GRIP2	0.1653928	7.062455	2.2729692	0.0491496	0.26772	-4.240258
SNRPA	0.2056789	9.8693934	2.2729268	0.049153	0.26772	-4.240323
SUGCT	-0.173965	7.2827313	-2.272912	0.0491542	0.26772	-4.240346
GIN1	-0.168307	7.3688819	-2.272912	0.0491543	0.26772	-4.240347
ZNF286A	0.1842005	7.2878527	2.2725265	0.0491852	0.26772	-4.24094
ATP5S	-0.159628	8.8444431	-2.272507	0.0491868	0.26772	-4.24097
NUCB1	0.3027904	11.333332	2.2723816	0.0491969	0.26772	-4.241164
COG6	-0.253908	8.2201048	-2.271749	0.0492477	0.2679	-4.242138
ASF1A	-0.252926	9.3699897	-2.271412	0.0492749	0.26795	-4.242659
PMS2P3	-0.170158	7.8592071	-2.270766	0.0493269	0.26809	-4.243654
CD1D	-0.168301	6.7440554	-2.270629	0.0493379	0.26809	-4.243864
MTX1	0.1730628	8.8941712	2.2701181	0.0493792	0.26811	-4.244652
LOC613206	0.1457757	7.0156111	2.2700751	0.0493827	0.26811	-4.244718
ADM2	0.1647872	6.9124693	2.269904	0.0493965	0.26811	-4.244982
PIAS1	0.2331189	8.9109049	2.2695734	0.0494232	0.26815	-4.245492
KLK11	0.2135645	6.9658333	2.2686487	0.0494979	0.26846	-4.246916
ZNF85	-0.164743	6.9192781	-2.267832	0.049564	0.26872	-4.248175
SHPRH	-0.177988	7.2228838	-2.267588	0.0495838	0.26872	-4.248551
KIAA0355	0.1725272	8.5941704	2.2673818	0.0496005	0.26872	-4.248868
MIR877	0.1745577	7.6753306	2.2662318	0.0496938	0.26905	-4.25064
TMEM87B	-0.143904	6.9464476	-2.266167	0.0496991	0.26905	-4.25074
CNPY2	-0.173396	10.22992	-2.265392	0.0497621	0.26929	-4.251934
UBE3C	0.1595822	9.9254503	2.2651376	0.0497827	0.2693	-4.252325
SLC39A4	0.1446079	7.8845095	2.2647656	0.049813	0.2693	-4.252898
TP53	0.3895609	8.6066666	2.2646805	0.0498199	0.2693	-4.253029
BPI	-0.146048	6.9113059	-2.264447	0.0498389	0.26931	-4.253389
LEMD2	-0.155335	8.1025921	-2.264194	0.0498595	0.26932	-4.253778
FAM86C1	0.2125439	8.1605336	2.2637377	0.0498967	0.26941	-4.254481

TRMT61A	0.2254642	8.1316538	2.2635404	0.0499128	0.26941	-4.254785
HSPBAP1	-0.290708	8.1372647	-2.262798	0.0499734	0.26963	-4.255927
AGPAT1	0.2816221	8.3735489	2.2625676	0.0499922	0.26964	-4.256283
GATB	-0.333188	9.8959321	-2.262271	0.0500164	0.26964	-4.256739
C5orf15	-0.264925	9.8671979	-2.262097	0.0500307	0.26964	-4.257008
RNF5	0.1507127	8.5022092	2.2604555	0.050165	0.27027	-4.259535
NUS1	-0.271566	7.8517837	-2.260198	0.0501861	0.27028	-4.259931
BSN	0.1701071	7.6734579	2.2588637	0.0502957	0.27041	-4.261985
FAHD2A	-0.190476	7.7335813	-2.258826	0.0502988	0.27041	-4.262043
PIGO	0.152496	7.4237875	2.2588019	0.0503008	0.27041	-4.26208
GRAMD3	-0.142881	6.8721518	-2.258774	0.050303	0.27041	-4.262123
C19orf38	-0.195805	7.0348018	-2.258449	0.0503298	0.27041	-4.262623
ARL2	-0.326409	11.913942	-2.258425	0.0503317	0.27041	-4.262659
MRPL14	-0.206999	10.455973	-2.258228	0.050348	0.27041	-4.262964
TPD52L2	-0.159491	9.704361	-2.258109	0.0503577	0.27041	-4.263147
LINC00623	-0.204401	9.3002275	-2.257528	0.0504056	0.27054	-4.264041
UFD1	-0.172839	7.6021302	-2.257352	0.05042	0.27054	-4.264311
CNTN4	-0.15677	6.8050622	-2.256951	0.0504531	0.27062	-4.264928
INTS3	0.3448902	9.2662284	2.2563575	0.050502	0.27079	-4.265842
RASSF7	-0.182287	9.1544806	-2.256006	0.0505311	0.27082	-4.266383
KCND3	0.1802618	7.0342192	2.2558286	0.0505457	0.27082	-4.266655
E2F3	0.2083825	9.6826408	2.255114	0.0506047	0.27104	-4.267755
KCTD7	0.2309816	7.3827065	2.254318	0.0506706	0.27129	-4.26898
PARP16	0.1851711	7.4061096	2.2536963	0.050722	0.27147	-4.269936
PCGF2	0.1826968	7.0270102	2.25338	0.0507483	0.27151	-4.270423
TMEM261	-0.158122	8.5837633	-2.252995	0.0507801	0.27151	-4.271014
ZNF18	0.1588056	7.9113468	2.2527503	0.0508005	0.27151	-4.271391
RNF214	0.1786203	7.5841614	2.2527012	0.0508045	0.27151	-4.271467
TRIM38	0.2419831	7.4708367	2.2523566	0.0508332	0.27156	-4.271997
SLX1A	0.1786604	7.7244597	2.2515007	0.0509043	0.27184	-4.273313
R3HDM2	0.1391117	7.2673489	2.2510522	0.0509416	0.27192	-4.274003
SLC22A20	-0.179159	7.0176877	-2.250874	0.0509564	0.27192	-4.274277
SPATA4	-0.160769	7.0440106	-2.250598	0.0509794	0.27195	-4.274701
B3GLCT	-0.210092	7.2283104	-2.249879	0.0510393	0.2721	-4.275806
SLC43A3	0.2217318	8.2291667	2.2498132	0.0510448	0.2721	-4.275908
TOMM6	-0.230982	12.144439	-2.249574	0.0510647	0.2721	-4.276275
SEC23IP	0.1471057	8.571706	2.2493214	0.0510858	0.27212	-4.276664
FBXO22	-0.195425	8.6502268	-2.248822	0.0511275	0.27224	-4.277432
POMP	0.1560894	12.283393	2.2476458	0.0512258	0.27266	-4.27924
FBXO44	-0.15138	6.9266261	-2.247041	0.0512764	0.27283	-4.280169
ZNHIT2	0.2010603	7.9272778	2.246552	0.0513174	0.2729	-4.280921
DAP	0.2003932	8.4832244	2.2464381	0.0513269	0.2729	-4.281096
SMPDL3A	-0.191555	7.6866006	-2.245677	0.0513907	0.27309	-4.282266

TMSB4XP8	-0.206284	11.454672	-2.245562	0.0514004	0.27309	-4.282442
INPP5B	0.1536723	7.6988031	2.2449104	0.0514551	0.27316	-4.283444
CLNS1A	-0.192337	11.519588	-2.24481	0.0514636	0.27316	-4.283599
SIRT6	0.1805806	7.1641733	2.2447426	0.0514692	0.27316	-4.283702
SPAG7	-0.162744	8.9628072	-2.243994	0.0515322	0.2734	-4.284852
FAM83F	0.1932297	7.4281875	2.2437519	0.0515525	0.2734	-4.285224
SCN3A	0.2142274	6.9642213	2.2434055	0.0515817	0.27346	-4.285757
BAG2	-0.295151	8.2361817	-2.242588	0.0516507	0.27355	-4.287013
TRAPPC6B	-0.180941	7.5865534	-2.242514	0.0516568	0.27355	-4.287126
NAPRT	-0.260687	7.6287787	-2.242396	0.0516668	0.27355	-4.287308
PPP4R4	-0.203346	7.0788272	-2.242306	0.0516744	0.27355	-4.287446
STAM	-0.201301	8.4354289	-2.242029	0.0516978	0.27358	-4.287872
ADI1	-0.218437	7.8374623	-2.239719	0.0518932	0.27447	-4.29142
MARCKSL1	0.3454065	12.241086	2.2391433	0.0519419	0.27447	-4.292304
UPF2	0.1931168	8.7624884	2.2391316	0.0519429	0.27447	-4.292322
ZNF226	-0.148302	6.8972533	-2.23895	0.0519583	0.27447	-4.2926
ZNF567	-0.149832	7.0097795	-2.238932	0.0519599	0.27447	-4.292629
NPHP3	-0.279205	7.2966591	-2.23871	0.0519787	0.27447	-4.292969
KYAT1	-0.278907	8.4724365	-2.237975	0.0520411	0.27464	-4.294098
PGK1	0.1506231	11.749742	2.2377783	0.0520578	0.27464	-4.2944
LRRC58	0.3038519	8.3668524	2.2376535	0.0520684	0.27464	-4.294592
NOB1	0.285872	8.5121148	2.2370605	0.0521188	0.27481	-4.295502
ARPC5	-0.335964	11.518318	-2.236502	0.0521664	0.27488	-4.29636
MFSD4A	0.1661902	6.8791511	2.2364525	0.0521706	0.27488	-4.296436
CENPC	-0.202538	6.9094738	-2.235677	0.0522367	0.27513	-4.297626
PICALM	0.1834986	8.6247406	2.2349501	0.0522987	0.27536	-4.298742
NFYC	0.1972137	9.3388171	2.2342098	0.052362	0.27558	-4.299878
HSD17B7P2	-0.260294	8.4482761	-2.233875	0.0523906	0.27558	-4.300392
CAPZA2	-0.221934	10.898922	-2.233806	0.0523965	0.27558	-4.300498
GORASP2	-0.267117	9.9058943	-2.23318	0.05245	0.27576	-4.301458
ICAM1	0.3035906	8.3695222	2.2327465	0.0524872	0.27583	-4.302124
UGT8	0.1981624	7.940495	2.232584	0.0525011	0.27583	-4.302373
TAAR8	0.1818501	6.9525857	2.2310582	0.052632	0.27635	-4.304715
TBC1D22A	0.1878184	8.1658315	2.2308917	0.0526463	0.27635	-4.30497
PSMB7	0.2388593	12.35596	2.2307031	0.0526625	0.27635	-4.305259
KRT85	0.1734773	6.992599	2.2305575	0.052675	0.27635	-4.305483
KPNA4	0.1674523	10.506825	2.2303157	0.0526958	0.27635	-4.305854
MAST2	0.1572055	7.8763804	2.2300052	0.0527225	0.2764	-4.30633
APRT	0.2146692	10.252717	2.2295792	0.0527592	0.27649	-4.306984
BRPF1	0.235693	9.2111248	2.2289657	0.0528121	0.27667	-4.307925
IMP3	-0.195173	12.074822	-2.228565	0.0528466	0.2767	-4.30854
CHP1	0.2080318	9.6796615	2.2284421	0.0528572	0.2767	-4.308728
S100A14	0.1822569	7.3800251	2.2280985	0.0528869	0.27676	-4.309255

HOXB7	-0.176144	8.4050241	-2.227408	0.0529465	0.27688	-4.310314
PMM2	0.2675373	8.6310919	2.2273962	0.0529475	0.27688	-4.310332
PTRH1	0.1642787	8.1073742	2.2270284	0.0529793	0.27689	-4.310896
ATP5F1	-0.197643	12.105114	-2.226928	0.052988	0.27689	-4.31105
EPB41L4A	0.1806384	7.4379801	2.2261664	0.0530539	0.27714	-4.312218
NAGA	0.1915348	6.9214299	2.225828	0.0530832	0.27719	-4.312737
ACVR1	-0.164964	6.8246171	-2.225236	0.0531345	0.27733	-4.313644
SAAL1	-0.185045	10.454657	-2.225085	0.0531476	0.27733	-4.313877
CTU2	0.1359314	7.3583612	2.2235724	0.0532789	0.27791	-4.316195
PPP1R13B	-0.200753	7.8351405	-2.223246	0.0533073	0.27796	-4.316696
DPEP2	-0.175556	6.9239557	-2.222937	0.0533342	0.278	-4.317169
GDF15	0.1636604	6.8012831	2.2221257	0.0534048	0.27819	-4.318413
ATP6V0D1	0.2237834	9.0273266	2.2220851	0.0534084	0.27819	-4.318475
UBXN7	0.1946379	7.2267513	2.2216085	0.0534499	0.27831	-4.319205
STK33	-0.281587	7.4320028	-2.220782	0.0535221	0.27859	-4.320472
FAM13B	-0.163022	8.9798264	-2.21908	0.0536708	0.27918	-4.323079
COA3	-0.236114	9.8442112	-2.219035	0.0536748	0.27918	-4.323149
SGPL1	0.1381263	7.485726	2.2188215	0.0536935	0.27918	-4.323476
SAPCD1	-0.248807	7.3297308	-2.217085	0.0538458	0.27961	-4.326136
FRMPD3	0.1693564	7.3000655	2.217064	0.0538477	0.27961	-4.326168
NKIRAS1	-0.172505	8.4386436	-2.216868	0.0538649	0.27961	-4.326468
KDM4A	-0.173324	7.0554485	-2.216769	0.0538736	0.27961	-4.32662
CLTC	-0.220953	7.9767193	-2.216697	0.05388	0.27961	-4.326731
RSG1	0.1373014	7.3688945	2.2164378	0.0539027	0.27961	-4.327127
HAUS6	-0.203391	6.9897812	-2.216351	0.0539104	0.27961	-4.32726
RBM17	-0.175982	9.836765	-2.215968	0.0539441	0.27969	-4.327847
ADAM9	-0.178673	7.0867611	-2.215217	0.0540102	0.27989	-4.328997
ZC3H13	-0.168692	6.9921718	-2.214907	0.0540375	0.27989	-4.329472
ARF3	0.2643048	9.425581	2.2147892	0.0540479	0.27989	-4.329652
RUNX3	0.1585518	9.3394064	2.2143712	0.0540847	0.27989	-4.330292
PPP1R16A	-0.294953	8.6082709	-2.214348	0.0540868	0.27989	-4.330329
SCARNA13	-0.203692	7.9917188	-2.214209	0.054099	0.27989	-4.330541
ZNF223	-0.395195	9.2543232	-2.213635	0.0541497	0.28006	-4.33142
MRPS2	0.3266955	9.637839	2.2133982	0.0541706	0.28006	-4.331782
HNRNPCL2	-0.147832	7.9178957	-2.212013	0.0542931	0.28016	-4.333903
ARL16	0.1953217	9.9303511	2.2119343	0.0543001	0.28016	-4.334023
RAD54B	-0.150898	8.0564088	-2.211924	0.0543011	0.28016	-4.33404
IFIH1	-0.233455	9.0941337	-2.211623	0.0543278	0.28016	-4.334501
CES4A	-0.164115	7.4369169	-2.21162	0.0543279	0.28016	-4.334504
MTHFR	0.328807	7.678596	2.2115165	0.0543372	0.28016	-4.334663
PP14571	0.2731874	7.2457764	2.2109786	0.0543848	0.28016	-4.335486
GPR132	0.2164229	7.6930824	2.2105111	0.0544263	0.28016	-4.336202
PKDCC	-0.14879	7.0057937	-2.210483	0.0544288	0.28016	-4.336245

CCDC15	0.1558685	7.47833	2.21022	0.0544522	0.28016	-4.336647
SOX13	0.1887049	7.0557312	2.2100177	0.0544701	0.28016	-4.336957
ISG20L2	0.5347627	9.6375169	2.2099617	0.0544751	0.28016	-4.337043
ACD	0.2644761	8.6744267	2.2098592	0.0544842	0.28016	-4.3372
AP3S2	-0.155361	7.7427647	-2.209734	0.0544954	0.28016	-4.337392
UBE2E1	-0.208545	10.195592	-2.209355	0.0545291	0.28016	-4.337972
B3GALNT2	-0.203743	7.3092886	-2.209153	0.054547	0.28016	-4.33828
RCN1	-0.160823	6.9829234	-2.209069	0.0545545	0.28016	-4.338409
CTSZ	0.4502864	8.7661689	2.2089716	0.0545631	0.28016	-4.338558
TSSC4	0.1680447	9.7202643	2.2088947	0.05457	0.28016	-4.338676
RNASEK	0.2058908	10.471874	2.2087972	0.0545787	0.28016	-4.338825
SDHAF2	-0.249121	10.511899	-2.208644	0.0545923	0.28016	-4.33906
LTBP4	0.1679369	7.3207538	2.2072977	0.0547123	0.28063	-4.341119
ACTB	0.3491166	14.214088	2.2070389	0.0547354	0.28063	-4.341515
STAT6	0.2081101	9.2738092	2.2069134	0.0547466	0.28063	-4.341707
SERBP1	0.3338332	10.346231	2.2067647	0.0547599	0.28063	-4.341935
ANKRD20A3	0.1457833	6.9463295	2.2064326	0.0547895	0.28068	-4.342443
GMPR2	-0.167923	9.0736116	-2.205884	0.0548386	0.28083	-4.343282
RCL1	-0.192958	8.9545379	-2.205548	0.0548686	0.28089	-4.343795
ECSIT	0.1599193	8.07893	2.2038055	0.0550247	0.28157	-4.346461
GATAD2B	0.3405388	7.859042	2.2031213	0.0550861	0.28157	-4.347507
SLC27A6	-0.252326	7.2176065	-2.203011	0.0550961	0.28157	-4.347677
OLAH	-0.177931	6.9862027	-2.202661	0.0551275	0.28157	-4.348211
SLC27A3	-0.294704	7.6628672	-2.202287	0.0551612	0.28157	-4.348783
LOC1001282	-0.187912	7.3690529	-2.202244	0.055165	0.28157	-4.348849
SLC7A11	0.2180224	7.0889669	2.2021045	0.0551775	0.28157	-4.349062
LHPP	-0.186374	8.7329777	-2.202027	0.0551846	0.28157	-4.349181
LINC00426	-0.184065	7.5795234	-2.201957	0.0551908	0.28157	-4.349288
BRD3	0.3526479	8.5621841	2.201905	0.0551955	0.28157	-4.349367
SLC38A9	-0.19352	7.7704586	-2.201151	0.0552634	0.28161	-4.35052
OR10A2	0.1424629	6.886629	2.2008573	0.0552899	0.28161	-4.350969
LEPROTL1	-0.206265	8.6641958	-2.200812	0.055294	0.28161	-4.351039
PNP	-0.148102	10.926213	-2.200802	0.0552948	0.28161	-4.351053
VMA21	0.2668848	10.77872	2.2007551	0.0552991	0.28161	-4.351125
TGS1	-0.324034	7.7968031	-2.200025	0.0553649	0.28185	-4.352241
TMEM39A	-0.177654	7.6994922	-2.199535	0.0554091	0.28197	-4.35299
AEBP2	0.3100557	8.8389735	2.1993099	0.0554295	0.28198	-4.353334
SNORD83B	-0.219103	8.3022187	-2.19828	0.0555226	0.28235	-4.354908
HSPA13	-0.178562	7.3226275	-2.197784	0.0555676	0.2824	-4.355666
ARPC4	0.1827867	8.9546858	2.197754	0.0555703	0.2824	-4.355712
JPH1	-0.160321	6.7600524	-2.196708	0.0556651	0.28278	-4.35731
TAF15	0.4387231	10.439635	2.1957452	0.0557525	0.28313	-4.358781
TNPO2	0.2057754	10.098768	2.1952669	0.055796	0.28325	-4.359512

FDXACB1	-0.167722	7.3417979	-2.194713	0.0558464	0.28338	-4.360359
FAM27E5	-0.22323	7.0816546	-2.194479	0.0558677	0.28338	-4.360716
PFDN2	0.2180366	7.5685796	2.194337	0.0558806	0.28338	-4.360933
SEC63	0.1409394	7.6170722	2.1932876	0.0559763	0.28356	-4.362536
SYTL1	-0.171578	7.2533733	-2.193236	0.055981	0.28356	-4.362614
KIAA1468	-0.155308	8.0580229	-2.193157	0.0559882	0.28356	-4.362735
TMEM214	0.2831534	7.9888426	2.1930812	0.0559951	0.28356	-4.362851
PROX2	0.1960495	6.9831413	2.1928086	0.05602	0.28356	-4.363267
ATG5	-0.274245	8.0293557	-2.192606	0.0560385	0.28356	-4.363577
C19orf48	0.1727471	9.1504083	2.1922112	0.0560746	0.28356	-4.364179
C6orf48	-0.161268	9.2237025	-2.192098	0.056085	0.28356	-4.364353
ZNF527	-0.139515	6.8576726	-2.192042	0.05609	0.28356	-4.364437
AIM2	-0.145742	8.6121965	-2.191283	0.0561594	0.28376	-4.365597
PXDN	0.1937622	7.0759776	2.1911833	0.0561686	0.28376	-4.365749
ATP2B3	-0.152951	6.9038005	-2.190711	0.0562118	0.2838	-4.36647
MIR1914	0.219945	6.9364592	2.190629	0.0562193	0.2838	-4.366595
ARFIP2	-0.146325	7.0278884	-2.1903	0.0562495	0.2838	-4.367097
LOC1002878	-0.151676	6.7691182	-2.190255	0.0562536	0.2838	-4.367166
HIST2H4B	-0.264144	7.5475533	-2.189785	0.0562967	0.28391	-4.367883
NCOR2	0.3977264	9.5718329	2.1895847	0.0563151	0.28391	-4.36819
TAPBP	0.2134014	8.1305856	2.1890735	0.056362	0.28394	-4.36897
DSN1	0.1818206	7.9585956	2.1889438	0.0563739	0.28394	-4.369168
AGTRAP	0.173321	7.8294457	2.1888815	0.0563797	0.28394	-4.369263
TDG	0.2149846	10.385242	2.1883798	0.0564258	0.28405	-4.370029
CPEB3	0.1637231	7.3382135	2.1880605	0.0564551	0.28405	-4.370516
BLK	0.1943593	9.1165083	2.1880054	0.0564602	0.28405	-4.3706
MPRIP	0.1539889	7.842128	2.186677	0.0565825	0.28434	-4.372628
NRDC	0.190342	10.513733	2.1866436	0.0565856	0.28434	-4.372679
ALG6	-0.146032	8.8188728	-2.186552	0.056594	0.28434	-4.372818
POLG2	-0.19082	8.4941474	-2.186455	0.056603	0.28434	-4.372966
TRAK1	0.1614382	8.4500611	2.1861533	0.0566308	0.28434	-4.373427
CALHM2	-0.168347	7.5109143	-2.185978	0.056647	0.28434	-4.373694
SMDT1	-0.281961	8.390909	-2.185838	0.05666	0.28434	-4.373908
DGCR14	0.1735893	7.3591693	2.1855495	0.0566866	0.28434	-4.374348
HDAC6	0.1724752	7.7889256	2.1854913	0.0566919	0.28434	-4.374437
MAD2L2	0.2158595	11.454234	2.185126	0.0567257	0.28441	-4.374994
GNB2	0.246203	7.9253429	2.1849019	0.0567464	0.28441	-4.375336
NDST2	-0.243419	8.1408687	-2.184024	0.0568276	0.28472	-4.376675
CREG1	-0.16154	9.9628096	-2.182873	0.0569343	0.28516	-4.378432
ATP2A2	0.3043291	9.9467255	2.1811415	0.0570951	0.28584	-4.381072
CASKIN2	-0.151921	6.9080538	-2.18099	0.0571092	0.28584	-4.381304
HNRNPC	-0.28634	10.387392	-2.179736	0.057226	0.28633	-4.383215
RTN1	0.1463331	7.2935648	2.1793953	0.0572577	0.28639	-4.383734

BCL3	0.2433688	8.1862097	2.1790633	0.0572887	0.28644	-4.384241
FBXO7	0.1687466	8.3265988	2.1783448	0.0573558	0.28655	-4.385336
PDSS1	-0.150536	9.6863683	-2.178127	0.0573761	0.28655	-4.385668
ZDHHC11	-0.194259	7.4826309	-2.177954	0.0573923	0.28655	-4.385932
CCHCR1	0.166954	7.1895332	2.1774521	0.0574392	0.28655	-4.386697
SMIM11A	-0.173781	8.1443675	-2.177435	0.0574408	0.28655	-4.386722
PTPN5	-0.139529	6.9382187	-2.177398	0.0574443	0.28655	-4.386779
PMF1	0.1452165	7.9979789	2.1773238	0.0574512	0.28655	-4.386892
TTF2	-0.230496	10.405662	-2.177072	0.0574748	0.28655	-4.387276
RTFDC1	0.1553562	11.418677	2.1768557	0.057495	0.28655	-4.387606
ITPK1	0.1970753	7.8427562	2.1767336	0.0575065	0.28655	-4.387792
ZNF407	0.1389695	7.4108956	2.176476	0.0575306	0.28657	-4.388184
SLC25A19	-0.414543	11.046169	-2.175198	0.0576505	0.28698	-4.390132
FIP1L1	0.186691	9.2110708	2.1749219	0.0576764	0.28698	-4.390553
CLDND2	-0.185476	7.6309075	-2.174906	0.0576779	0.28698	-4.390577
MRPS36	-0.148541	7.473632	-2.1747	0.0576973	0.28698	-4.390891
FAM229B	0.1834798	7.6909716	2.1745547	0.0577109	0.28698	-4.391112
DHX38	0.2113149	8.1717429	2.1739817	0.0577648	0.28715	-4.391985
SORL1	0.3039957	9.7312099	2.1735529	0.0578051	0.28725	-4.392638
E2F2	0.1505305	11.271825	2.1724148	0.0579123	0.28769	-4.394372
GGCX	-0.142748	7.2315994	-2.171958	0.0579555	0.28781	-4.395068
PNO1	-0.338932	9.299664	-2.171562	0.0579928	0.28783	-4.395671
RPL31	-0.177287	14.185622	-2.171483	0.0580003	0.28783	-4.395791
IER3IP1	-0.288408	8.2147386	-2.171244	0.0580229	0.28785	-4.396155
DHRS11	0.1515847	8.7384087	2.1709235	0.0580531	0.28788	-4.396643
TSEN34	0.1682577	10.410707	2.1707585	0.0580687	0.28788	-4.396894
ZNF69	0.1757036	8.5768802	2.1699792	0.0581425	0.28815	-4.398081
ASB16	-0.246238	7.7695426	-2.169076	0.058228	0.28847	-4.399456
PSMD8	-0.254501	10.256732	-2.168865	0.058248	0.28847	-4.399777
KIF3B	0.1444823	8.3922581	2.1682237	0.0583089	0.28868	-4.400754
SPINT2	-0.146517	9.4947704	-2.166962	0.0584288	0.28917	-4.402675
PDE8A	-0.157338	7.0279425	-2.166072	0.0585135	0.28945	-4.40403
CHIC2	-0.158329	9.2817188	-2.16596	0.0585241	0.28945	-4.4042
RHOA	0.158091	12.200944	2.1657518	0.058544	0.28945	-4.404516
NDUFA2	-0.188795	12.096886	-2.165422	0.0585754	0.2895	-4.405018
MCRIP1	0.1967431	7.8856987	2.1644735	0.0586659	0.28985	-4.406462
L3HYPDH	-0.192609	7.4484829	-2.164135	0.0586982	0.28992	-4.406977
MYBBP1A	0.2242889	7.816294	2.163596	0.0587498	0.29003	-4.407797
LAMC3	-0.171406	7.4082457	-2.16348	0.0587609	0.29003	-4.407974
ERAL1	0.2762272	10.587118	2.1632336	0.0587844	0.29005	-4.408348
OGFR	0.3435654	8.4592544	2.1620617	0.0588966	0.29044	-4.410131
MYBL1	-0.305596	7.9798012	-2.161985	0.058904	0.29044	-4.410248
SMARCA4	0.1900822	11.670785	2.1616492	0.0589362	0.2905	-4.410758

ARRDC3	0.1844345	7.118033	2.160558	0.059041	0.29083	-4.412418
CREB3L2	0.170987	8.0684692	2.1605371	0.059043	0.29083	-4.41245
AADAT	0.153544	6.8944481	2.1596944	0.059124	0.29108	-4.413731
ZNF518A	-0.203248	7.7793373	-2.159605	0.0591326	0.29108	-4.413868
SNORA77	-0.211077	7.0171793	-2.159272	0.0591646	0.29112	-4.414373
RABGGTA	0.1913287	7.3410153	2.159101	0.0591811	0.29112	-4.414634
TXNL1	-0.343176	8.6324232	-2.158851	0.0592052	0.29114	-4.415014
CTDSP1	0.2195297	8.0695619	2.1583281	0.0592556	0.29129	-4.415809
GLA	-0.200506	9.8324183	-2.157427	0.0593425	0.29159	-4.417178
PAFAH1B3	-0.221309	9.2029832	-2.156859	0.0593974	0.29159	-4.418042
IL36B	-0.142823	6.8441126	-2.156835	0.0593997	0.29159	-4.418078
NMRK1	-0.262849	7.4613661	-2.156424	0.0594394	0.29159	-4.418703
TUBGCP2	0.1435966	8.06186	2.1564151	0.0594403	0.29159	-4.418717
CLUH	0.286919	9.0509051	2.1563579	0.0594459	0.29159	-4.418804
JMJD8	-0.19734	10.554839	-2.156243	0.0594569	0.29159	-4.418978
GCN1	0.2262114	10.927805	2.1554384	0.0595349	0.29187	-4.420201
ZNF598	0.1744027	9.0567244	2.1546857	0.0596078	0.29213	-4.421345
RPS2	0.2528824	13.899893	2.15447	0.0596287	0.29214	-4.421673
LRRC45	0.1498038	7.1010253	2.1523026	0.0598394	0.29303	-4.424966
ACAA2	-0.199372	8.8731497	-2.152183	0.059851	0.29303	-4.425147
RSAD1	-0.171747	7.7804129	-2.15105	0.0599614	0.2934	-4.426868
ILKAP	-0.190294	8.7181141	-2.150994	0.0599669	0.2934	-4.426953
UQCC3	-0.191128	8.352564	-2.149391	0.0601235	0.29395	-4.429388
GABRB3	0.1475839	7.3014338	2.1491306	0.0601489	0.29395	-4.429783
KLHL26	0.1757253	7.2587303	2.1488468	0.0601767	0.29395	-4.430214
FZD10	0.1637594	7.0092981	2.1487865	0.0601826	0.29395	-4.430306
MAT2B	-0.252416	8.8814324	-2.148607	0.0602001	0.29395	-4.430578
PCNX4	-0.164718	8.655602	-2.148594	0.0602014	0.29395	-4.430598
PITPNB	-0.152033	8.7451451	-2.148413	0.0602191	0.29395	-4.430873
ANKFY1	-0.193822	7.9870622	-2.147994	0.0602602	0.29396	-4.431509
PPA1	-0.184211	13.31712	-2.147844	0.0602749	0.29396	-4.431737
COG3	-0.176346	7.6788869	-2.147705	0.0602885	0.29396	-4.431948
OSGIN1	0.2551479	7.6030593	2.1475528	0.0603034	0.29396	-4.432179
ENO3	-0.178863	7.2640282	-2.146996	0.0603581	0.29406	-4.433024
LUZP1	0.1732451	9.3616208	2.1468346	0.0603739	0.29406	-4.433269
PLXNA1	-0.17757	7.2636137	-2.146735	0.0603837	0.29406	-4.43342
COL9A2	0.2340875	7.2128604	2.1463867	0.0604179	0.29413	-4.433949
SGK3	-0.146345	7.4961589	-2.146163	0.0604399	0.29414	-4.434289
DGCR8	0.1937595	7.9089811	2.1450191	0.0605524	0.29447	-4.436025
BEGAIN	0.2241397	7.9318472	2.1450002	0.0605543	0.29447	-4.436053
KIF22	0.1981262	9.8702389	2.1447935	0.0605747	0.29447	-4.436367
HIST1H3F	-0.177564	7.3976322	-2.144641	0.0605897	0.29447	-4.436599
MTHFD1	0.1695988	8.8561578	2.144413	0.0606122	0.29449	-4.436944

ENTPD6	0.1792998	7.7624693	2.1439257	0.0606602	0.29453	-4.437684
MAGEC2	0.1704919	7.0313807	2.1439037	0.0606624	0.29453	-4.437717
SNORD30	-0.275552	7.7689464	-2.143134	0.0607384	0.29473	-4.438886
NCAPH	0.1715546	6.8191172	2.1430828	0.0607434	0.29473	-4.438963
RSL1D1	0.1557099	10.725734	2.1426615	0.060785	0.29478	-4.439602
PLA2G12A	-0.167248	7.3532344	-2.142563	0.0607947	0.29478	-4.439751
ANKRD23	-0.143879	7.1580588	-2.142001	0.0608503	0.29496	-4.440604
YIF1B	0.1493266	8.8430022	2.1413615	0.0609136	0.29503	-4.441574
CASP12	-0.166905	6.8697773	-2.141247	0.060925	0.29503	-4.441747
CEBPA	-0.139445	6.7845405	-2.141175	0.0609321	0.29503	-4.441856
RAB1B	0.1689113	7.6418847	2.1407736	0.0609719	0.29503	-4.442465
PPIAP29	-0.160307	13.141988	-2.140693	0.0609799	0.29503	-4.442587
GMFB	-0.351642	10.719138	-2.140507	0.0609983	0.29503	-4.44287
PECR	-0.362186	8.0528479	-2.140262	0.0610226	0.29503	-4.443241
RASAL1	-0.153514	7.1556784	-2.140211	0.0610277	0.29503	-4.443319
ZNF17	-0.199056	7.9765374	-2.139403	0.0611079	0.29532	-4.444544
ZFYVE1	0.1519138	7.1944242	2.1387947	0.0611684	0.29547	-4.445467
PARP4	0.1669079	9.8712883	2.1386766	0.0611801	0.29547	-4.445646
CMTM8	0.242916	9.3350255	2.1378582	0.0612616	0.29569	-4.446886
GINS1	0.140253	7.0361079	2.1378259	0.0612648	0.29569	-4.446935
COX7A2	-0.151767	14.21313	-2.136999	0.0613472	0.29597	-4.448189
HLA-F	0.2277981	9.7776203	2.1366527	0.0613817	0.29597	-4.448714
ANKRD52	0.1364457	7.0425446	2.1363187	0.0614151	0.29597	-4.44922
INPP4B	0.1783092	7.65621	2.1363078	0.0614161	0.29597	-4.449237
YIPF2	-0.160738	7.0250774	-2.136147	0.0614322	0.29597	-4.44948
TFPT	0.1772881	7.8321736	2.1360255	0.0614443	0.29597	-4.449664
ANKMY1	-0.343664	8.4574176	-2.135262	0.0615206	0.29617	-4.450821
MIR761	-0.148974	6.9319808	-2.135085	0.0615383	0.29617	-4.451089
PCDHB10	0.1412768	6.8583617	2.1349888	0.061548	0.29617	-4.451236
SLC7A6	-0.178832	8.2843214	-2.134722	0.0615746	0.2962	-4.45164
ZNF658	-0.194804	7.0101913	-2.133746	0.0616724	0.29658	-4.453118
MMD	-0.199373	10.546277	-2.133526	0.0616944	0.29658	-4.453452
SLC25A20	-0.138461	8.0521226	-2.133103	0.0617369	0.29664	-4.454093
MSX1	-0.166213	7.151595	-2.133015	0.0617458	0.29664	-4.454227
IFNAR2	0.2859569	8.6971159	2.1322183	0.0618257	0.29687	-4.455433
RBMS3	0.1496745	6.9465633	2.1321334	0.0618342	0.29687	-4.455562
TMEM64	0.1985524	8.0175477	2.1315537	0.0618925	0.2969	-4.45644
CD151	0.1985134	8.7527275	2.1314612	0.0619018	0.2969	-4.45658
CYB561D2	0.1643563	8.3043959	2.1314485	0.0619031	0.2969	-4.456599
GPC2	-0.170602	7.83359	-2.130709	0.0619775	0.29716	-4.457719
SMC1A	0.2069981	7.0742334	2.1304867	0.0619999	0.29717	-4.458056
TLE6	-0.135499	7.1272692	-2.130071	0.0620418	0.29723	-4.458685
PPIE	-0.143639	8.135098	-2.129806	0.0620686	0.29723	-4.459087

RABL2A	-0.137365	7.2341049	-2.129771	0.0620721	0.29723	-4.459141
IDH3B	0.16763	9.7791095	2.1292864	0.062121	0.29736	-4.459874
DRG1	0.2039926	11.104297	2.1285266	0.0621977	0.2976	-4.461024
RRAGC	0.2075255	8.7114176	2.1283929	0.0622112	0.2976	-4.461227
ZNF749	-0.133546	6.9141862	-2.128084	0.0622425	0.29765	-4.461695
COX11P1	-0.161814	7.3997448	-2.127215	0.0623304	0.29794	-4.46301
MAN2B2	0.2492668	9.1212505	2.1268272	0.0623697	0.29794	-4.463597
HM13	0.2317727	7.5863095	2.126761	0.0623764	0.29794	-4.463697
CLEC4E	-0.151966	6.948756	-2.126677	0.062385	0.29794	-4.463825
KLHDC4	0.2417561	9.0389878	2.1258537	0.0624684	0.29824	-4.46507
RERE	0.1881504	8.8599797	2.1247939	0.062576	0.29848	-4.466674
PM20D1	0.1974288	7.0263206	2.1247889	0.0625766	0.29848	-4.466682
SNAPC2	0.21137	8.672392	2.1245028	0.0626057	0.29848	-4.467115
CIRBP	0.1655221	10.948786	2.1244495	0.0626111	0.29848	-4.467195
XIST	0.1891518	7.5001435	2.1243619	0.06262	0.29848	-4.467328
APC	0.1635244	6.9059795	2.1238828	0.0626687	0.29857	-4.468053
SLC39A5	0.2742901	6.9554116	2.1237679	0.0626804	0.29857	-4.468227
ZBTB9	0.1563134	8.7283683	2.1230746	0.0627511	0.29875	-4.469275
MIR345	0.1471189	7.2340311	2.1228737	0.0627715	0.29875	-4.469579
HSCB	-0.195796	9.2795906	-2.122787	0.0627803	0.29875	-4.46971
AES	0.2923062	8.6280088	2.1224988	0.0628098	0.2988	-4.470147
PLA2G10	-0.148012	6.8501271	-2.121639	0.0628976	0.29901	-4.471448
CYP27B1	-0.255302	7.534983	-2.121557	0.062906	0.29901	-4.471572
PDHX	0.2130954	9.6599225	2.1214609	0.0629157	0.29901	-4.471716
SNORD110	-0.197187	7.6836728	-2.120354	0.0630289	0.29945	-4.47339
COPG1	0.2013959	8.8559071	2.1193168	0.0631352	0.29973	-4.474959
CHRM2	-0.190773	6.8584429	-2.119137	0.0631537	0.29973	-4.475231
JAK2	0.1612512	7.22609	2.1191022	0.0631572	0.29973	-4.475283
CEP104	0.148282	7.3679501	2.1189659	0.0631712	0.29973	-4.47549
LINC01620	0.162462	7.010713	2.1186701	0.0632016	0.29978	-4.475937
PFN1	0.214083	13.816282	2.1184129	0.063228	0.29981	-4.476326
TRMT61B	-0.173548	8.5167421	-2.118134	0.0632566	0.29985	-4.476747
SGTB	-0.132479	6.843729	-2.117464	0.0633254	0.29992	-4.47776
ALG9	0.1857835	9.3413449	2.1173941	0.0633327	0.29992	-4.477866
C19orf66	-0.217904	7.9186443	-2.117393	0.0633328	0.29992	-4.477868
PHLPP1	0.1909575	7.4365475	2.1171786	0.0633548	0.29992	-4.478192
ZNF142	0.1980955	9.7467903	2.1169507	0.0633783	0.29994	-4.478536
ZNF680	-0.325477	7.7702409	-2.116573	0.0634171	0.30002	-4.479107
EPHB1	0.2165564	7.6328788	2.1158051	0.0634963	0.30017	-4.480267
ECT2	-0.438159	9.0228262	-2.115789	0.063498	0.30017	-4.480292
MARF1	0.1452091	9.5725389	2.1155415	0.0635235	0.30017	-4.480666
PGD	0.3480685	11.694006	2.1154749	0.0635303	0.30017	-4.480766
C4orf33	-0.175365	7.8702605	-2.115015	0.0635778	0.30025	-4.481462

ZNF493	-0.171944	7.1972291	-2.114519	0.0636291	0.30025	-4.482212
STAMBP	-0.155909	9.6144486	-2.114312	0.0636504	0.30025	-4.482523
ZNF768	0.2101074	7.7668175	2.1140281	0.0636797	0.30025	-4.482953
MGEA5	-0.250291	10.226358	-2.113865	0.0636967	0.30025	-4.4832
DUSP10	0.1431966	7.7356052	2.1137696	0.0637065	0.30025	-4.483343
ZNF831	0.1576176	7.2507968	2.1137634	0.0637071	0.30025	-4.483353
SKA1	0.1449529	8.1054683	2.1136818	0.0637156	0.30025	-4.483476
ARHGAP17	0.1545334	8.365624	2.113511	0.0637332	0.30025	-4.483734
VDAC2	-0.175483	7.5932305	-2.112589	0.0638287	0.30043	-4.485126
ARAP1	0.2027076	7.7185809	2.1125535	0.0638324	0.30043	-4.48518
SESTD1	0.2314231	7.8970308	2.1125434	0.0638334	0.30043	-4.485195
APOBEC3G	-0.18453	9.5660904	-2.112029	0.0638867	0.30059	-4.485972
NXT2	-0.251645	8.040115	-2.111634	0.0639278	0.30069	-4.48657
RSF1	-0.156508	7.2504028	-2.111264	0.0639661	0.30076	-4.487127
PIK3IP1	-0.180777	8.5788779	-2.111081	0.0639852	0.30076	-4.487405
TMEM207	0.205312	7.1862572	2.1104848	0.0640471	0.30088	-4.488305
FAM210A	-0.241228	8.342233	-2.110295	0.0640668	0.30088	-4.488591
POU5F1	0.1718135	7.0091543	2.1099335	0.0641044	0.30088	-4.489137
ORMDL1	-0.212555	8.850537	-2.109914	0.0641065	0.30088	-4.489166
ZNF579	0.1719135	7.4940134	2.1098454	0.0641136	0.30088	-4.48927
RRAGA	0.1793415	10.357401	2.1090479	0.0641967	0.30113	-4.490474
NMB	0.2082553	7.3093226	2.1089317	0.0642088	0.30113	-4.49065
ENOPH1	-0.21916	10.531253	-2.107445	0.0643639	0.30168	-4.492894
RIOK3	0.1517513	8.9109821	2.1074098	0.0643676	0.30168	-4.492947
CHCHD5	0.2215659	9.1973462	2.1067786	0.0644335	0.30171	-4.4939
LAMTOR2	-0.163072	10.846387	-2.10657	0.0644554	0.30171	-4.494215
TTF1	-0.148445	7.9176269	-2.106541	0.0644584	0.30171	-4.494258
RPS27A	-0.16058	13.805336	-2.10638	0.0644752	0.30171	-4.494501
C18orf25	-0.183732	9.6858703	-2.106368	0.0644765	0.30171	-4.494519
TMEM91	-0.307166	7.6461362	-2.105901	0.0645254	0.30172	-4.495224
KLB	0.1607722	7.1279615	2.1053184	0.0645864	0.30172	-4.496103
PPME1	0.2225577	8.7023261	2.1052316	0.0645955	0.30172	-4.496234
KCNS1	-0.13756	6.8362308	-2.105142	0.0646049	0.30172	-4.49637
CCL4L2	0.232828	10.907917	2.1051137	0.0646079	0.30172	-4.496412
TMED10P1	-0.174818	11.031948	-2.10509	0.0646103	0.30172	-4.496448
C1QTNF9B	0.172506	7.0953062	2.1049275	0.0646274	0.30172	-4.496693
NDUFAF5	-0.185681	9.5648687	-2.104488	0.0646735	0.30172	-4.497356
FERMT2	-0.152549	6.8617313	-2.10445	0.0646774	0.30172	-4.497413
IRF2BP2	0.1607263	7.8388815	2.1041892	0.0647049	0.30172	-4.497807
TNNT2	0.1401899	6.9520832	2.1041193	0.0647122	0.30172	-4.497912
SPRTN	-0.198208	7.6208991	-2.10398	0.0647268	0.30172	-4.498123
SPR	-0.161595	6.7187816	-2.103756	0.0647503	0.30173	-4.49846
MAFG-AS1	0.5847805	8.3818847	2.1029984	0.06483	0.30201	-4.499603

MIR940	0.1872971	7.0268903	2.1026465	0.064867	0.30206	-4.500134
SERGEF	-0.132759	8.7712309	-2.102502	0.0648823	0.30206	-4.500352
NMNAT3	-0.194887	7.8321319	-2.101762	0.0649602	0.30233	-4.501468
WASH7P	-0.158401	7.1809826	-2.100391	0.0651048	0.30283	-4.503535
AFMID	-0.221218	8.1599583	-2.100213	0.0651236	0.30283	-4.503804
GHITM	-0.171594	12.563497	-2.100068	0.0651389	0.30283	-4.504022
CYB561A3	0.3066001	9.8971557	2.0998864	0.0651582	0.30283	-4.504296
TTLL12	0.2932311	10.025372	2.099631	0.0651852	0.30283	-4.504681
TMEM263	-0.228004	7.0682046	-2.099377	0.065212	0.30283	-4.505064
RFFL	0.2596351	9.301955	2.0989746	0.0652546	0.30283	-4.505671
E2F6	-0.179122	8.7223636	-2.098864	0.0652663	0.30283	-4.505837
TMEM251	0.1685197	9.0944306	2.0988298	0.0652699	0.30283	-4.505889
PITHD1	0.2130015	11.311342	2.0987667	0.0652766	0.30283	-4.505984
KNTC1	-0.233786	9.0457468	-2.097693	0.0653904	0.30326	-4.507603
SRSF8	-0.159405	9.8481279	-2.097412	0.0654202	0.30331	-4.508026
BTN2A2	-0.198971	7.6071056	-2.097007	0.0654632	0.30341	-4.508637
CCL14	-0.157752	6.9722923	-2.096625	0.0655037	0.3035	-4.509212
MICB	-0.231229	8.7435189	-2.096379	0.0655299	0.3035	-4.509583
CEP164	0.1461314	7.8753539	2.0962298	0.0655458	0.3035	-4.509808
PTGES3L-AA	0.163391	9.3882727	2.0957145	0.0656006	0.30359	-4.510584
MZT1	-0.256969	8.8802534	-2.09566	0.0656064	0.30359	-4.510666
PCBP2	0.145627	9.795541	2.0954736	0.0656262	0.30359	-4.510947
IQGAP1	0.2241966	8.5186661	2.0951436	0.0656614	0.30365	-4.511444
MLH1	0.139141	10.031266	2.0948671	0.0656908	0.30369	-4.511861
CSN1S1	0.1563031	6.8568882	2.093758	0.0658091	0.30414	-4.513532
VPS25	0.1839265	9.0989832	2.0934601	0.0658409	0.30415	-4.51398
FAM167A	-0.163415	7.4172375	-2.093305	0.0658574	0.30415	-4.514213
SLC26A6	-0.16082	7.9305977	-2.093165	0.0658724	0.30415	-4.514425
SLC27A5	-0.164777	8.7461842	-2.092562	0.0659368	0.30434	-4.515333
AURKA	0.2076139	9.7168424	2.0922302	0.0659723	0.30434	-4.515833
LYPLA2P1	0.2035245	7.4309212	2.092191	0.0659765	0.30434	-4.515892
NOL4	0.1399145	6.9024557	2.0914423	0.0660567	0.30461	-4.517019
NOC4L	0.1779865	7.8323141	2.0909412	0.0661104	0.30469	-4.517774
APOPT1	0.1937243	8.4489293	2.0908052	0.0661249	0.30469	-4.517978
ATAD5	-0.217462	6.9080464	-2.090656	0.0661409	0.30469	-4.518203
BRMS1	0.1415883	9.5596107	2.0905069	0.0661569	0.30469	-4.518427
ZNF583	-0.146748	7.8742942	-2.090043	0.0662067	0.30482	-4.519126
LONRF1	0.1822549	8.3550326	2.0898009	0.0662327	0.30485	-4.51949
MIR330	-0.165248	7.2242945	-2.08894	0.0663252	0.30495	-4.520787
LPAR5	0.2668749	8.5139718	2.088835	0.0663365	0.30495	-4.520944
CNTN5	0.1874975	6.9402577	2.0888075	0.0663395	0.30495	-4.520986
LOC407835	0.2560571	8.0622993	2.0886608	0.0663552	0.30495	-4.521206
USP21	0.1456951	7.4977411	2.0881198	0.0664135	0.30495	-4.522021

NME6	0.1523996	8.021616	2.0880997	0.0664156	0.30495	-4.522051
RCOR3	0.1515694	8.5856448	2.0876762	0.0664612	0.30495	-4.522688
SNORA73A	-0.405453	8.8494	-2.087581	0.0664715	0.30495	-4.522831
SEPHS2	-0.310159	9.215173	-2.087537	0.0664762	0.30495	-4.522897
MYL12B	-0.257731	11.5829	-2.087507	0.0664795	0.30495	-4.522943
POTEE	0.2038427	7.1996942	2.0870407	0.0665297	0.30495	-4.523645
NOC2L	0.3465401	8.225054	2.0868775	0.0665473	0.30495	-4.52389
PIGP	-0.135016	8.3349486	-2.086821	0.0665534	0.30495	-4.523974
RPS26P15	0.2064842	12.000169	2.0867702	0.0665589	0.30495	-4.524051
VPS37D	-0.21881	7.7777845	-2.086668	0.0665699	0.30495	-4.524205
ITPK1-AS1	0.3966002	10.940681	2.0863194	0.0666076	0.30495	-4.52473
TNFRSF13C	0.1931074	7.7821218	2.0862886	0.0666109	0.30495	-4.524776
ZC3H15	-0.231917	9.5184303	-2.085677	0.0666769	0.30516	-4.525696
COA1	-0.190176	9.1417494	-2.084373	0.066818	0.30571	-4.527657
NUDT18	0.2185666	8.1264737	2.083906	0.0668687	0.30584	-4.52836
L3MBTL3	0.1275955	7.0459378	2.0833142	0.0669328	0.30604	-4.52925
BCAN	-0.146427	7.0327951	-2.082645	0.0670055	0.30628	-4.530257
SUN1	-0.192429	8.9064097	-2.082348	0.0670377	0.30633	-4.530703
LOC1001305	0.1669052	6.9877147	2.0816502	0.0671136	0.30658	-4.531752
TRAPPC6A	-0.217342	8.7851609	-2.081463	0.0671339	0.30658	-4.532034
MED26	0.1903815	8.2911923	2.0807812	0.0672081	0.30682	-4.533059
LOC1001324	0.1794466	7.0974043	2.0800643	0.0672863	0.30708	-4.534136
MIR300	0.1814584	7.1735297	2.0796979	0.0673262	0.30717	-4.534687
RPS8	-0.296652	13.942672	-2.07939	0.0673598	0.30722	-4.535149
AKIRIN2	0.2657214	10.191507	2.0789521	0.0674076	0.30735	-4.535808
FAM109A	0.1804214	7.0562647	2.0787081	0.0674343	0.30737	-4.536174
NSD1	0.1385811	7.3390317	2.0783026	0.0674786	0.30744	-4.536784
CLEC3B	0.1591283	7.06263	2.0781874	0.0674912	0.30744	-4.536957
SH2B2	0.3933436	8.1999459	2.0775658	0.0675592	0.30765	-4.537891
RAB24	-0.139516	8.121681	-2.07721	0.0675981	0.30769	-4.538425
TIMM17A	-0.13257	7.5740261	-2.077099	0.0676103	0.30769	-4.538593
SLC4A2	0.1909517	7.5719971	2.0762557	0.0677028	0.30802	-4.539859
SPTBN1	0.1375961	7.6380251	2.0759077	0.0677409	0.3081	-4.540382
CYP51A1	-0.305903	7.8955764	-2.075559	0.0677793	0.30812	-4.540906
PTRHD1	-0.163135	9.0492171	-2.075358	0.0678013	0.30812	-4.541208
BCAT2	0.1658675	9.3571172	2.0752809	0.0678098	0.30812	-4.541323
CORO7	0.2577278	8.2108953	2.0746539	0.0678787	0.30818	-4.542265
SDC2	0.1420788	6.9562816	2.0745323	0.067892	0.30818	-4.542448
NASP	-0.239053	9.4578566	-2.074471	0.0678988	0.30818	-4.542539
TRRAP	0.260536	10.614524	2.0743902	0.0679077	0.30818	-4.542661
KCTD15	-0.14131	7.8666763	-2.07368	0.0679859	0.30841	-4.543728
ZDHHC12	0.2736125	8.1198458	2.0735451	0.0680007	0.30841	-4.54393
PARP2	-0.132076	8.4428379	-2.072091	0.068161	0.30899	-4.546113

CC2D1A	0.1611592	7.266419	2.0718147	0.0681915	0.30899	-4.546528
PABPC5	0.1597933	7.8034374	2.0716191	0.0682131	0.30899	-4.546822
RPL17P39	-0.146357	14.04934	-2.071615	0.0682136	0.30899	-4.546828
LOC1001295	0.1808759	7.0438156	2.0712628	0.0682525	0.30907	-4.547356
CERKL	-0.168	7.1307295	-2.070616	0.068324	0.3093	-4.548327
RAB3A	0.1480398	6.9349173	2.0697701	0.0684177	0.30963	-4.549597
LAMA3	0.1427315	6.8041902	2.0693177	0.0684679	0.30973	-4.550276
UBXN11	0.1396606	7.1998097	2.0691915	0.0684818	0.30973	-4.550465
NME4	0.2397647	10.838733	2.0688709	0.0685174	0.30979	-4.550946
TMEM216	-0.161699	7.8023496	-2.068651	0.0685418	0.30981	-4.551276
ING3	-0.139177	7.6100021	-2.068325	0.0685781	0.30988	-4.551766
SEC24C	0.2625299	10.47399	2.0678239	0.0686337	0.31002	-4.552517
GMEB1	0.2631428	7.7964841	2.0674782	0.0686721	0.31002	-4.553035
CD63	0.2069835	9.1687068	2.0674704	0.068673	0.31002	-4.553047
C16orf72	0.1642319	8.0944395	2.0666706	0.068762	0.31024	-4.554247
CD38	-0.14302	9.3487316	-2.066634	0.068766	0.31024	-4.554302
NECAP2	0.1941807	10.943701	2.0662424	0.0688096	0.31032	-4.554889
LSM6	-0.261994	7.979574	-2.066045	0.0688316	0.31032	-4.555185
RPN1	0.1384492	12.008981	2.0657257	0.0688672	0.31032	-4.555664
TUBGCP4	0.1603068	9.0831161	2.0656474	0.068876	0.31032	-4.555781
SNORD96A	-0.158963	8.08523	-2.065431	0.0689001	0.31032	-4.556106
DNAJC17	-0.359252	8.3232788	-2.065338	0.0689105	0.31032	-4.556246
MINDY4B	0.1858015	6.8878268	2.0651379	0.0689328	0.31033	-4.556545
TMEM79	-0.20747	8.0305633	-2.064408	0.0690143	0.3106	-4.55764
USF2	0.1784087	8.162068	2.0640235	0.0690573	0.31069	-4.558216
PTRH2	-0.135254	8.7367997	-2.063735	0.0690895	0.31074	-4.558649
GXYLT1	0.1761638	7.9107616	2.0630144	0.0691702	0.31085	-4.559729
ALYREF	0.2085515	9.2376945	2.0629783	0.0691742	0.31085	-4.559783
HYOU1	0.2806207	8.9859896	2.0629504	0.0691773	0.31085	-4.559825
ASMTL	0.1772115	9.3056706	2.0623406	0.0692456	0.31106	-4.560739
TRABD	-0.19527	11.728409	-2.061892	0.069296	0.31119	-4.561412
ERAP1	-0.175511	7.1786793	-2.061696	0.069318	0.3112	-4.561705
PRPF6	0.2105467	7.7317605	2.0614405	0.0693466	0.31123	-4.562088
TBC1D31	-0.228959	7.873971	-2.06118	0.0693758	0.31126	-4.562478
PLPP3	0.1336109	6.8959399	2.060897	0.0694076	0.31131	-4.562902
EPS8L2	0.1400159	6.8723338	2.0602854	0.0694764	0.31143	-4.563819
SLC23A2	0.1371189	7.8037986	2.0602829	0.0694767	0.31143	-4.563823
ACRV1	0.133134	6.8641412	2.0599553	0.0695135	0.3115	-4.564313
USF1	0.1511501	8.0093922	2.0596327	0.0695498	0.31157	-4.564797
CALML4	-0.134356	7.7539696	-2.059175	0.0696014	0.3117	-4.565483
PLEKHB2	0.3119473	8.1483315	2.0584827	0.0696794	0.31192	-4.56652
DYNLT1	-0.217587	9.7612668	-2.05837	0.069692	0.31192	-4.566688
FAM120A	0.2124573	11.653285	2.0577894	0.0697576	0.31211	-4.567558

NFKBIA	0.3548945	12.503677	2.057055	0.0698405	0.31239	-4.568658
TRMT6	-0.162045	7.7543545	-2.056321	0.0699235	0.31266	-4.569757
ATP1A1	0.200571	10.461107	2.0560837	0.0699504	0.31269	-4.570112
PCED1A	-0.173505	7.3391491	-2.05589	0.0699723	0.31269	-4.570403
DHCR7	0.3609906	9.8434079	2.0554019	0.0700276	0.31276	-4.571133
SELENOH	-0.1744	7.0907541	-2.055369	0.0700313	0.31276	-4.571183
PTPN2	-0.187505	7.9944258	-2.055074	0.0700647	0.31282	-4.571624
ALKBH8	0.2696991	7.4959902	2.0538137	0.0702077	0.31336	-4.573511
MECR	0.1343036	7.5927467	2.0522357	0.0703872	0.31406	-4.575872
KDELC1	-0.162632	7.3475583	-2.051559	0.0704643	0.3143	-4.576884
RIMS4	0.1895358	7.0607763	2.0512209	0.0705028	0.3143	-4.57739
SLC1A5	0.2886417	9.4866284	2.0509296	0.0705361	0.3143	-4.577826
STX5	0.192088	8.7215261	2.0508918	0.0705404	0.3143	-4.577883
GFM1	-0.28021	10.460405	-2.050676	0.070565	0.3143	-4.578206
VRK3	0.1740902	7.9842013	2.0504956	0.0705856	0.3143	-4.578476
ACOT7	0.1593713	11.173669	2.0504411	0.0705918	0.3143	-4.578557
DCUN1D2	-0.126984	7.0321441	-2.050139	0.0706263	0.3143	-4.579008
ATP13A1	-0.189099	8.5112281	-2.05007	0.0706342	0.3143	-4.579112
HIST1H2BG	-0.130791	6.9352882	-2.049612	0.0706865	0.31439	-4.579797
ADIPOR1	0.1757807	9.4082002	2.0491633	0.0707378	0.31439	-4.580468
FAM156A	-0.224717	7.810088	-2.049044	0.0707515	0.31439	-4.580647
SOX4	0.1859801	7.8652837	2.0488668	0.0707718	0.31439	-4.580912
SCCPDH	-0.144036	7.3777134	-2.048789	0.0707806	0.31439	-4.581028
VEZF1	-0.15517	8.8951395	-2.04863	0.0707989	0.31439	-4.581266
SNRPD3	0.2104514	7.9954237	2.0483471	0.0708313	0.31439	-4.581689
MYOZ1	0.138095	6.9805866	2.0482488	0.0708425	0.31439	-4.581836
AKR1A1	0.1454186	9.828293	2.0481858	0.0708498	0.31439	-4.58193
C12orf43	0.1513135	8.7978427	2.048003	0.0708707	0.31439	-4.582203
H2AFB1	0.1369295	6.8264625	2.0474532	0.0709337	0.31451	-4.583026
TFB2M	-0.156961	10.063529	-2.047398	0.0709401	0.31451	-4.583109
C11orf80	-0.257048	7.501087	-2.046645	0.0710265	0.3148	-4.584234
HLA-H	0.2108812	9.9464893	2.0464094	0.0710536	0.31482	-4.584586
CD72	0.1769694	8.4761638	2.0459818	0.0711027	0.31489	-4.585225
HMGN5	-0.151714	7.1280403	-2.045842	0.0711188	0.31489	-4.585434
SMIM4	0.1888054	8.5611441	2.0457234	0.0711324	0.31489	-4.585612
ROCK2	0.1779756	10.678398	2.0451259	0.0712012	0.31503	-4.586505
BCL2A1	-0.187682	7.5665366	-2.045073	0.0712073	0.31503	-4.586584
JOSD2	0.1655534	7.0836284	2.0444037	0.0712844	0.31519	-4.587584
PRSS3	-0.151805	6.8608081	-2.044327	0.0712933	0.31519	-4.587699
LRFN4	0.1891236	7.4668289	2.0438502	0.0713482	0.31519	-4.588411
CYP2E1	-0.216056	9.4130795	-2.043846	0.0713486	0.31519	-4.588417
INTS7	-0.240022	7.7845483	-2.043824	0.0713513	0.31519	-4.588451
BAK1	0.1972167	7.7698731	2.0431798	0.0714256	0.31519	-4.589413

MYO1D	0.1855609	7.3087487	2.0429792	0.0714487	0.31519	-4.589713
TMC8	0.1399185	7.2728671	2.0429169	0.0714559	0.31519	-4.589806
STX7	-0.160827	8.0218753	-2.042822	0.0714669	0.31519	-4.589948
SPDYE7P	0.1576779	7.0322707	2.0427352	0.0714769	0.31519	-4.590077
PRPF19	0.1857546	9.8131444	2.0427011	0.0714809	0.31519	-4.590128
STT3A	0.175294	10.632235	2.0422473	0.0715333	0.31526	-4.590806
GDI1	0.1620984	8.0388116	2.0420445	0.0715568	0.31526	-4.591109
HBA2	0.1519518	6.9305221	2.0418315	0.0715814	0.31526	-4.591427
POP4	-0.13908	8.7329822	-2.041641	0.0716035	0.31526	-4.591712
ZNF558	-0.199015	7.4394142	-2.041561	0.0716128	0.31526	-4.591832
STK35	0.1576324	7.8699551	2.0414354	0.0716273	0.31526	-4.592019
TMEM44	-0.19589	7.9078197	-2.040982	0.0716797	0.31531	-4.592695
ANKRD27	-0.211659	8.5933799	-2.040954	0.071683	0.31531	-4.592737
SS18	-0.166361	8.5761468	-2.040453	0.0717411	0.31548	-4.593487
MAVS	0.166153	7.1882421	2.0400233	0.0717909	0.31553	-4.594128
ID2-AS1	0.1764799	6.9843358	2.0396714	0.0718318	0.31553	-4.594653
CATSPER2	0.2134098	8.7043213	2.0396333	0.0718362	0.31553	-4.59471
MED24	0.2534428	8.4229141	2.039126	0.0718951	0.31553	-4.595468
SNORD14C	-0.212473	8.0188331	-2.039045	0.0719045	0.31553	-4.595588
TMEM201	0.2343755	7.6797002	2.0387936	0.0719338	0.31553	-4.595964
TAP2	0.1830484	9.0332118	2.0387841	0.0719349	0.31553	-4.595978
FMR1-AS1	-0.242152	6.8753281	-2.038531	0.0719643	0.31553	-4.596355
CNOT4	0.1447003	7.7591611	2.0384813	0.0719701	0.31553	-4.59643
GNAS	0.1410444	12.732312	2.0382652	0.0719952	0.31553	-4.596753
SFSWAP	0.1811541	8.5608576	2.0382527	0.0719967	0.31553	-4.596771
PSMD6	0.1655441	11.620261	2.0380065	0.0720253	0.31553	-4.597139
TNKS	0.2025837	7.0141063	2.0379317	0.072034	0.31553	-4.59725
GPR18	0.14376	7.0522262	2.0373935	0.0720967	0.31568	-4.598054
FGD2	-0.22808	9.897983	-2.037221	0.0721168	0.31568	-4.598311
NELFCD	0.1683267	10.588753	2.0370412	0.0721378	0.31568	-4.59858
SLC25A16	0.1848902	7.6179651	2.0367747	0.0721688	0.31568	-4.598977
GHDC	0.2233998	8.1908642	2.0367047	0.072177	0.31568	-4.599082
ARTN	-0.144628	6.8313733	-2.036401	0.0722124	0.31574	-4.599535
SCAI	-0.165821	7.0180081	-2.036097	0.072248	0.3158	-4.599989
PGRMC2	-0.229572	9.885768	-2.035919	0.0722687	0.3158	-4.600255
LOC554207	0.1639118	7.0472907	2.0345337	0.0724307	0.31641	-4.602322
FBXO8	-0.158448	8.6510339	-2.034287	0.0724595	0.31644	-4.602689
SYDE1	-0.140181	6.7572301	-2.033864	0.072509	0.31656	-4.60332
NEK6	-0.146618	9.5331968	-2.033502	0.0725515	0.31665	-4.603861
AKAP8L	0.1797879	7.6160147	2.0331229	0.0725959	0.31675	-4.604426
BRPF3	0.1939364	8.787056	2.0326999	0.0726456	0.31687	-4.605057
TMEM50B	-0.191475	8.482413	-2.03234	0.0726878	0.31696	-4.605593
CCDC125	0.1972915	8.4236836	2.031797	0.0727516	0.31708	-4.606404

CCNA2	0.1847249	10.561922	2.0315951	0.0727753	0.31708	-4.606705
ABCA2	-0.195669	6.7897954	-2.03122	0.0728195	0.31708	-4.607264
CA9	-0.145679	6.8917916	-2.031216	0.0728199	0.31708	-4.60727
PDZD4	0.1313882	6.9596851	2.0310919	0.0728345	0.31708	-4.607455
SFTPD	0.1721184	6.7867985	2.0309205	0.0728547	0.31708	-4.607711
THBS3	-0.237652	7.4182651	-2.030716	0.0728787	0.31708	-4.608015
MIR342	0.1577211	7.0629287	2.0306351	0.0728883	0.31708	-4.608136
PLEKHG3	0.1271346	6.8111815	2.0299087	0.0729738	0.31736	-4.609219
C18orf8	-0.18498	10.029933	-2.029558	0.0730152	0.31744	-4.609742
E2F7	0.1386812	7.6928039	2.0290142	0.0730794	0.31758	-4.610552
FAM3A	0.2109142	10.169792	2.0289216	0.0730903	0.31758	-4.61069
KCNJ16	0.1313244	7.0361105	2.0285066	0.0731393	0.3177	-4.611309
ASNSD1	-0.238551	10.489942	-2.027622	0.0732438	0.31806	-4.612627
CYTOR	-0.183655	8.6983689	-2.026327	0.0733972	0.31863	-4.614557
COQ6	-0.123876	8.1865375	-2.026016	0.073434	0.31866	-4.61502
GDI2	0.2228103	11.573819	2.0258975	0.0734481	0.31866	-4.615197
PPP1CC	-0.245452	12.675771	-2.025122	0.0735401	0.31893	-4.616351
AASDHPPT	-0.17048	9.6094906	-2.025006	0.0735539	0.31893	-4.616524
CD81	0.2008486	13.570929	2.024522	0.0736114	0.31907	-4.617245
MED16	0.1850152	9.2040318	2.0243602	0.0736306	0.31907	-4.617486
UFM1	-0.206258	8.9009635	-2.024164	0.0736539	0.31908	-4.617778
XRCC3	0.2315786	8.448596	2.0237629	0.0737017	0.31919	-4.618376
PPAN	0.2015784	8.4814885	2.0231333	0.0737766	0.31919	-4.619313
MUL1	0.1921308	9.5954412	2.0230454	0.0737871	0.31919	-4.619444
DNAJB12	0.1255063	7.67262	2.0226244	0.0738373	0.31919	-4.620071
PRCD	-0.157636	6.8951878	-2.022419	0.0738618	0.31919	-4.620378
HCCS	-0.14579	7.944631	-2.022353	0.0738696	0.31919	-4.620475
DEK	-0.258638	10.194587	-2.022315	0.0738741	0.31919	-4.620531
PFDN5	-0.221337	12.530815	-2.022181	0.0738901	0.31919	-4.620731
PRR15	-0.256372	7.0697054	-2.021929	0.0739202	0.31919	-4.621106
INPP5K	0.1438643	7.1635986	2.0219007	0.0739236	0.31919	-4.621149
FGF7P3	-0.146998	6.8281035	-2.021847	0.0739301	0.31919	-4.621229
LOC286254	-0.130549	6.9838618	-2.021746	0.0739421	0.31919	-4.621379
GADD45B	0.2158893	9.1490817	2.021278	0.0739979	0.31934	-4.622076
C11orf57	-0.148933	8.6475017	-2.020167	0.0741307	0.31974	-4.623729
OR10J1	0.1521064	6.9714981	2.0201306	0.0741351	0.31974	-4.623783
CTNNA2	-0.12496	6.8688024	-2.019762	0.0741792	0.31975	-4.624332
PFDN6	-0.138874	9.4354132	-2.019651	0.0741925	0.31975	-4.624497
VGLL4	-0.255513	8.8634516	-2.019558	0.0742036	0.31975	-4.624635
KAT7	0.1354664	7.2430376	2.0191657	0.0742507	0.31986	-4.625219
AKAP8	0.1479806	8.5044056	2.018416	0.0743406	0.32015	-4.626335
PPP4R3A	0.1479726	8.1408546	2.018228	0.0743631	0.32015	-4.626614
ETFRF1	-0.22167	9.4137225	-2.018057	0.0743836	0.32015	-4.626868

EIF3CL	0.3822418	8.4185506	2.0169712	0.0745141	0.32062	-4.628484
PHOSPHO2	-0.242196	7.534266	-2.016498	0.074571	0.32077	-4.629187
CENPM	0.1505888	9.8120622	2.0162793	0.0745974	0.32079	-4.629513
SLC35C2	0.1588177	8.2812353	2.0154084	0.0747023	0.32108	-4.630808
ZNF551	0.1580044	7.0607014	2.0153532	0.0747089	0.32108	-4.63089
C11orf1	-0.16333	10.909436	-2.013826	0.0748933	0.32176	-4.633162
JMJD1C	-0.169855	7.8230401	-2.013565	0.0749248	0.32176	-4.633549
PGF	-0.184771	6.8163141	-2.013482	0.0749348	0.32176	-4.633672
GLI4	0.1702723	7.1907851	2.0126128	0.07504	0.32185	-4.634964
EXTL2	-0.203231	8.0615674	-2.012269	0.0750816	0.32185	-4.635476
COX6A1	-0.17686	11.792604	-2.012048	0.0751084	0.32185	-4.635804
CCDC69	0.2371368	8.4393343	2.0120475	0.0751084	0.32185	-4.635804
C1orf100	0.1356068	6.8771597	2.0119897	0.0751154	0.32185	-4.63589
C7orf26	0.1860826	9.1472623	2.0119751	0.0751172	0.32185	-4.635912
CCDC34	-0.184364	9.9086968	-2.011736	0.0751462	0.32185	-4.636268
C11orf54	-0.164271	8.0997385	-2.011721	0.0751479	0.32185	-4.636289
ODF2	0.1397146	8.1270053	2.0116716	0.075154	0.32185	-4.636363
WWC2-AS2	-0.156175	6.7481585	-2.010487	0.0752978	0.32233	-4.638124
MSL1	-0.143907	7.1425125	-2.010386	0.07531	0.32233	-4.638273
HTATSF1P2	-0.20964	7.3333386	-2.009017	0.0754764	0.32295	-4.640306
RINT1	-0.134049	8.1581632	-2.008677	0.0755179	0.32295	-4.640812
RNF145	0.2203879	8.3844353	2.0083011	0.0755637	0.32295	-4.64137
KHDRBS3	0.165738	8.2081913	2.008242	0.0755709	0.32295	-4.641458
SNORD49A	-0.284655	7.661133	-2.008103	0.0755878	0.32295	-4.641664
TBCE	-0.225844	9.3053055	-2.007983	0.0756024	0.32295	-4.641842
NCOA3	0.1752396	8.5787933	2.0077253	0.0756339	0.32295	-4.642225
GAMT	0.1540441	8.6050423	2.0076315	0.0756453	0.32295	-4.642364
DNAJA3	-0.208928	11.509511	-2.007569	0.0756529	0.32295	-4.642457
CDH24	0.1317288	7.0426081	2.0069946	0.075723	0.32315	-4.64331
AKR7L	-0.156589	6.9322611	-2.006166	0.0758243	0.32349	-4.64454
SRP68	0.232936	9.8105652	2.0057941	0.0758698	0.3235	-4.645092
OTUD6B	-0.295027	9.1829151	-2.005777	0.0758718	0.3235	-4.645117
MPND	0.1391654	7.1423076	2.0054767	0.0759086	0.32356	-4.645563
SERPINB8	0.1400972	8.5481547	2.0047221	0.076001	0.32382	-4.646683
PATE3	0.1660492	8.2702995	2.0046247	0.076013	0.32382	-4.646828
MAPK6	0.2670169	10.225324	2.0033975	0.0761635	0.32428	-4.648649
CCAR2	0.2072874	7.9345564	2.0033235	0.0761726	0.32428	-4.648759
TNFRSF21	0.2164047	9.0757225	2.0031996	0.0761878	0.32428	-4.648943
HPRT1	-0.198793	11.413128	-2.00232	0.0762959	0.32465	-4.650247
CREB5	0.1791079	8.3704638	2.0017051	0.0763716	0.32487	-4.65116
ADAMTS8	0.1337009	6.8729213	2.0008485	0.0764771	0.32515	-4.652431
MAPK4	0.1561136	6.9762516	2.0006787	0.0764981	0.32515	-4.652682
FUT11	0.1268542	7.5517257	2.0005251	0.076517	0.32515	-4.65291

GINS4	0.171102	7.3994141	2.0001541	0.0765628	0.32515	-4.65346
F8A1	0.1926101	7.7336304	1.9999655	0.076586	0.32515	-4.65374
SMG6	0.1629808	7.0187951	1.9997616	0.0766112	0.32515	-4.654042
ODF2L	-0.146486	7.1786544	-1.999736	0.0766144	0.32515	-4.65408
ANP32E	0.1355306	6.9733109	1.9994762	0.0766465	0.32515	-4.654466
NBPF9	0.6376377	9.724517	1.9994325	0.0766519	0.32515	-4.65453
IKZF3	0.1679988	7.92209	1.9993799	0.0766584	0.32515	-4.654608
ZNF106	0.2486995	9.9884023	1.9990802	0.0766954	0.32521	-4.655053
C1orf198	0.1282961	7.7640851	1.9987952	0.0767306	0.32526	-4.655475
AVPR2	0.1892672	7.3946458	1.9981996	0.0768043	0.32548	-4.656358
TRAFD1	0.158724	8.3912136	1.9960339	0.0770728	0.3264	-4.659568
YIF1A	-0.210744	10.641809	-1.996005	0.0770764	0.3264	-4.659611
EIF4EBP1	0.1393091	6.9359889	1.9958902	0.0770907	0.3264	-4.659781
TIMM8A	-0.288199	8.6731023	-1.995732	0.0771104	0.3264	-4.660016
EMC1	0.1616534	8.9723557	1.9953669	0.0771557	0.3265	-4.660556
PRKRA	-0.25657	10.194948	-1.995163	0.0771811	0.32651	-4.660858
LGALS9B	-0.140564	6.8867905	-1.994776	0.0772292	0.32662	-4.661432
MAP3K14	0.2055815	7.9963631	1.9939454	0.0773326	0.32696	-4.662662
MAT1A	0.1442846	7.53944	1.9936431	0.0773703	0.32703	-4.66311
MRPS23	-0.173092	9.734635	-1.993192	0.0774265	0.32717	-4.663778
XRN2	-0.153695	8.2337606	-1.992799	0.0774756	0.32728	-4.664361
UBE2Q2	-0.231355	8.9349416	-1.992221	0.0775477	0.32742	-4.665216
UBTF	0.1467355	7.5855243	1.9919561	0.0775808	0.32742	-4.665608
CSPP1	-0.13207	8.2460558	-1.991906	0.0775871	0.32742	-4.665683
PSAT1	-0.167107	11.229912	-1.991736	0.0776083	0.32742	-4.665934
CLIP4	-0.167613	7.3548765	-1.991645	0.0776197	0.32742	-4.666069
QSOX1	0.150287	7.5285628	1.9912744	0.0776661	0.32744	-4.666618
PIP4K2A	0.1462187	10.192093	1.990787	0.0777271	0.32744	-4.667339
IRS1	0.1745028	7.200789	1.9906894	0.0777393	0.32744	-4.667484
ZNF747	0.1555744	7.1964009	1.9905397	0.077758	0.32744	-4.667706
EIF2S2	-0.151179	8.6537434	-1.990461	0.0777679	0.32744	-4.667822
LHFP	0.1621286	9.0391201	1.9902389	0.0777957	0.32744	-4.668151
NUFIP2	0.1595512	8.9229596	1.9901941	0.0778013	0.32744	-4.668217
LRRC47	0.1374349	10.035797	1.9901737	0.0778039	0.32744	-4.668247
UQCRH	-0.17621	11.913867	-1.989729	0.0778596	0.32758	-4.668905
SENP3	0.1345987	7.2513709	1.9884847	0.0780158	0.32814	-4.670747
RUVBL1	0.1353628	10.219383	1.9881373	0.0780595	0.32823	-4.671261
KIR2DS2	0.2137477	6.8929103	1.9875917	0.0781281	0.32842	-4.672068
C4orf48	0.2037804	7.4325634	1.9867363	0.0782358	0.3287	-4.673334
DDX56	0.2176667	9.6707388	1.9867153	0.0782384	0.3287	-4.673365
RAB5C	0.2546559	8.6586043	1.9862247	0.0783002	0.32886	-4.674091
RPS17P16	-0.184155	12.134032	-1.985464	0.0783962	0.32917	-4.675216
SNORA68	0.1470983	7.3222118	1.9846355	0.0785008	0.32935	-4.676441

IARS2	0.2062843	11.008837	1.9842876	0.0785448	0.32935	-4.676955
GALNT18	-0.131696	7.747656	-1.984072	0.0785721	0.32935	-4.677274
CKAP2	-0.213218	8.8022175	-1.984029	0.0785775	0.32935	-4.677337
ATP6V1G3	0.1395931	6.8732273	1.983854	0.0785997	0.32935	-4.677596
BBS1	0.1319626	7.5054198	1.9836881	0.0786207	0.32935	-4.677842
GTF3C4	0.1551955	7.0791406	1.9836339	0.0786275	0.32935	-4.677922
BBC3	0.166051	7.6994952	1.9835738	0.0786351	0.32935	-4.678011
P2RX4	0.1360472	7.4284354	1.9835151	0.0786426	0.32935	-4.678097
IL15RA	-0.140669	7.2655641	-1.982531	0.0787673	0.32959	-4.679553
TDP2	-0.200752	7.2832422	-1.982529	0.0787675	0.32959	-4.679555
ZNF296	0.1622799	10.621603	1.9824858	0.078773	0.32959	-4.679619
LAMTOR5	-0.151376	9.4116168	-1.982344	0.0787909	0.32959	-4.679828
SACM1L	-0.306788	8.8568108	-1.982178	0.078812	0.32959	-4.680074
SCAF8	0.1823814	8.4419632	1.979853	0.0791075	0.33069	-4.68351
LPP	0.2374039	8.2851927	1.979753	0.0791202	0.33069	-4.683658
NTF4	-0.168015	6.8990739	-1.977701	0.0793819	0.33162	-4.686688
IP6K1	0.1511499	8.6190369	1.9773072	0.0794322	0.33162	-4.68727
PRORSD1P	-0.220291	7.0052224	-1.977115	0.0794568	0.33162	-4.687555
TDGP1	0.3023371	8.0622988	1.9768704	0.0794881	0.33162	-4.687915
CCDC155	0.1281988	6.9438236	1.9767721	0.0795006	0.33162	-4.68806
PGS1	0.1376134	8.6785782	1.9765156	0.0795334	0.33162	-4.688439
UAP1	-0.277895	9.8167227	-1.976134	0.0795823	0.33162	-4.689002
HEBP2	-0.125393	6.8222529	-1.976094	0.0795874	0.33162	-4.689061
SRSF3	-0.145904	8.7405848	-1.976083	0.0795889	0.33162	-4.689078
SNORA75	-0.199724	7.0755907	-1.975978	0.0796023	0.33162	-4.689233
CD3G	-0.131344	6.8299122	-1.975925	0.079609	0.33162	-4.689311
HEATR1	0.2182968	10.559033	1.9757879	0.0796266	0.33162	-4.689513
SRSF6	-0.185578	12.38035	-1.975697	0.0796382	0.33162	-4.689647
FAM161A	0.1439226	7.3680361	1.9747219	0.0797633	0.33204	-4.691087
COL23A1	-0.128568	6.9173577	-1.973533	0.0799159	0.33254	-4.692841
TANC1	0.1277865	8.4358959	1.9732696	0.0799498	0.33254	-4.69323
PHF5A	-0.182638	10.273847	-1.973147	0.0799656	0.33254	-4.693411
MED23	-0.122084	7.7558141	-1.973082	0.079974	0.33254	-4.693507
DOCK6	0.1541565	7.2648481	1.9728903	0.0799986	0.33255	-4.69379
PLEKHA3	-0.158595	7.8981219	-1.972216	0.0800855	0.33282	-4.694785
PIK3R2	-0.138078	10.548369	-1.971629	0.0801611	0.33295	-4.695651
ACBD6	0.1385289	8.3484253	1.9714529	0.0801838	0.33295	-4.69591
LOC400464	-0.181075	7.5119666	-1.971442	0.0801853	0.33295	-4.695927
RAB4B	0.1334552	7.8195629	1.9711539	0.0802224	0.33295	-4.696351
WDR20	-0.133484	7.9827841	-1.971005	0.0802415	0.33295	-4.696571
ERGIC3	0.2694019	10.413115	1.970588	0.0802954	0.33295	-4.697186
ALMS1	0.1455165	7.3718934	1.9705677	0.080298	0.33295	-4.697216
OR7E156P	-0.219947	7.5742799	-1.970553	0.0802999	0.33295	-4.697237

SLITRK2	-0.121697	6.8403492	-1.969339	0.0804568	0.3335	-4.699027
C7orf43	0.2017045	7.6306893	1.9689237	0.0805106	0.33352	-4.69964
SNORA7B	-0.135943	8.232649	-1.968831	0.0805226	0.33352	-4.699776
VAMP1	-0.161405	8.2683734	-1.968781	0.080529	0.33352	-4.69985
RHOBTB2	0.1565234	7.4387232	1.9684298	0.0805746	0.33361	-4.700368
TAF1	0.1574261	7.1365306	1.9673105	0.0807197	0.33404	-4.702018
TRPM3	-0.132387	6.9253164	-1.96724	0.0807289	0.33404	-4.702123
FAM58A	-0.122302	8.993654	-1.967108	0.0807459	0.33404	-4.702316
HSPH1	0.199424	12.045445	1.9665121	0.0808234	0.33426	-4.703195
TBX6	-0.144263	6.933809	-1.966011	0.0808885	0.33444	-4.703934
VPREB3	-0.237267	10.476983	-1.965774	0.0809194	0.33447	-4.704283
ANP32AP1	0.1851485	9.4815293	1.9655228	0.080952	0.33451	-4.704653
MIR564	0.1349526	6.8700158	1.9639439	0.0811577	0.33527	-4.706979
KLK1	0.1824181	7.2853957	1.9635273	0.0812121	0.3354	-4.707592
RAC3	-0.149282	7.0280438	-1.963116	0.0812658	0.33552	-4.708198
CCNL2	-0.234133	7.5109652	-1.962878	0.0812969	0.33554	-4.708548
ACAD8	-0.130095	8.110503	-1.962555	0.0813392	0.33554	-4.709025
CSRNP1	0.1751883	9.912185	1.9624932	0.0813472	0.33554	-4.709115
ABCA11P	-0.171453	7.0454137	-1.962305	0.0813718	0.33554	-4.709393
ADD1	0.1794448	8.9192338	1.9618686	0.0814289	0.33554	-4.710035
RIC8B	-0.219906	7.6240205	-1.961866	0.0814292	0.33554	-4.710039
MIR639	0.1801334	7.0482968	1.9618574	0.0814303	0.33554	-4.710051
BIRC6	0.1609233	8.130866	1.9603048	0.0816338	0.33628	-4.712337
VBP1	-0.253587	10.798326	-1.959954	0.0816798	0.3363	-4.712854
SLC10A3	0.1552065	7.9019273	1.9599139	0.0816851	0.3363	-4.712912
BPIFA4P	0.1641318	7.0861753	1.9590687	0.0817961	0.33661	-4.714156
MRPS25	-0.298764	8.7888934	-1.958852	0.0818245	0.33661	-4.714475
MIR488	-0.167776	7.4619939	-1.958526	0.0818674	0.33661	-4.714955
FAM102A	-0.159336	8.0420993	-1.958518	0.0818685	0.33661	-4.714967
CENPP	-0.179141	7.4213808	-1.95846	0.0818761	0.33661	-4.715052
METTL16	0.2180532	7.6424569	1.9573157	0.0820267	0.33709	-4.716735
MTAP	0.2494753	9.2104622	1.957231	0.0820379	0.33709	-4.71686
MAGEH1	-0.136558	7.5107156	-1.956959	0.0820737	0.33714	-4.71726
MAPRE1	0.1825599	12.055706	1.9566509	0.0821144	0.33721	-4.717713
SDCCAG3	-0.15929	9.1102402	-1.956425	0.0821442	0.33724	-4.718046
TMOD4	-0.122806	6.9135661	-1.955694	0.0822407	0.33754	-4.719121
PSMF1	-0.193907	10.684653	-1.954316	0.082423	0.3382	-4.721147
LOC1002888	-0.155158	7.4758422	-1.95345	0.0825377	0.33842	-4.72242
TTYH2	-0.148388	7.1126919	-1.953316	0.0825554	0.33842	-4.722617
BLOC1S6	0.219278	9.3708775	1.9533052	0.0825568	0.33842	-4.722633
CRTC2	0.1793511	7.9322634	1.9532048	0.0825702	0.33842	-4.72278
MFSD8	-0.130227	7.9448449	-1.952855	0.0826165	0.33851	-4.723294
LDHA	0.1829531	11.940653	1.9520806	0.0827193	0.3388	-4.724433

CDC25B	0.1917237	8.1929378	1.9518539	0.0827495	0.3388	-4.724766
MOCS3	-0.123188	6.8886675	-1.951645	0.0827772	0.3388	-4.725072
TLK2	0.1817407	8.4830943	1.9516363	0.0827784	0.3388	-4.725086
WRB	-0.183057	9.1322802	-1.951297	0.0828235	0.33886	-4.725585
STIP1	0.2579252	10.645073	1.9511626	0.0828414	0.33886	-4.725782
GLT8D1	-0.239724	7.8776747	-1.950879	0.082879	0.33892	-4.726198
SLC39A3	0.1331544	8.7157237	1.9503528	0.0829491	0.33905	-4.726971
ZCCHC14	0.1498221	7.2693621	1.9502903	0.0829575	0.33905	-4.727063
ASAH1	-0.144432	7.3525933	-1.949849	0.0830162	0.33918	-4.727711
ARL14EP	-0.126573	9.2166432	-1.94971	0.0830348	0.33918	-4.727916
GOLGA8EP	-0.161548	6.9946592	-1.949293	0.0830905	0.33931	-4.728529
LOC1002882	0.1184982	6.9525123	1.9490532	0.0831224	0.33932	-4.72888
ACE2	-0.186523	6.8789394	-1.94894	0.0831375	0.33932	-4.729046
FAM72D	-0.168206	8.715934	-1.948398	0.0832098	0.33945	-4.729842
HSPBP1	0.149368	7.6026695	1.9483426	0.0832173	0.33945	-4.729924
ATF1	-0.171268	7.4740308	-1.94774	0.0832979	0.33964	-4.730809
SCD	0.1808117	12.487967	1.9476532	0.0833094	0.33964	-4.730936
SEMA4B	0.1697032	8.1786138	1.9468856	0.0834121	0.33993	-4.732063
LTA4H	-0.204636	11.907006	-1.94676	0.0834289	0.33993	-4.732247
RAPGEF5	-0.221032	8.4498703	-1.946323	0.0834875	0.34008	-4.732889
TBRG4	0.1311581	8.8925521	1.9459461	0.083538	0.34008	-4.733442
ZRANB3	-0.124127	6.9594148	-1.94588	0.0835469	0.34008	-4.733539
IMMP2L	-0.143274	8.4233217	-1.945797	0.083558	0.34008	-4.733661
EBAG9	-0.130266	8.2214839	-1.945482	0.0836002	0.34014	-4.734123
RPL3	0.1379295	13.886702	1.9452279	0.0836343	0.34014	-4.734496
SEPT7P2	-0.138532	6.9777865	-1.944842	0.0836862	0.34014	-4.735063
MTMR2	0.1669101	8.0915575	1.9448377	0.0836867	0.34014	-4.735069
C14orf159	0.1490121	9.7657575	1.9448155	0.0836897	0.34014	-4.735101
QTRT2	0.1265532	8.51976	1.9443326	0.0837546	0.3402	-4.73581
CLIP3	-0.136093	6.9163754	-1.944283	0.0837612	0.3402	-4.735882
RPS13	0.2587756	14.068178	1.9440757	0.0837891	0.3402	-4.736187
LRRC15	-0.190316	6.9924965	-1.94402	0.0837967	0.3402	-4.736269
GAN	-0.120301	7.0073731	-1.943609	0.0838519	0.34033	-4.736871
MIR98	-0.1727	7.2563324	-1.943076	0.0839237	0.34052	-4.737654
RALGPS1	-0.16262	7.5067792	-1.942615	0.0839858	0.34068	-4.73833
SPCS2P4	-0.126216	9.5775486	-1.941804	0.0840951	0.34103	-4.739519
ZBED8	-0.164558	7.1960458	-1.941425	0.0841462	0.34112	-4.740075
UBE2D3	-0.131263	10.123985	-1.941291	0.0841643	0.34112	-4.740271
GLB1	0.1682001	9.445631	1.9408301	0.0842266	0.3412	-4.740947
NFS1	-0.126668	7.6391572	-1.94062	0.084255	0.3412	-4.741255
ZNF676	0.1231467	6.9843076	1.9404402	0.0842793	0.3412	-4.741519
SUPT6H	0.1973539	7.4764139	1.9403012	0.0842981	0.3412	-4.741723
ZNF417	0.1472178	7.2546717	1.9402746	0.0843017	0.3412	-4.741762

GJA5	-0.156183	6.9799087	-1.939655	0.0843856	0.34137	-4.74267
NDUFAF7	-0.154815	8.5531106	-1.939635	0.0843882	0.34137	-4.7427
TAF5	0.1666479	8.4294612	1.9389767	0.0844774	0.3415	-4.743665
HSD17B12	0.135814	10.563135	1.9389264	0.0844842	0.3415	-4.743738
FAM162A	-0.460411	8.9553396	-1.938667	0.0845193	0.3415	-4.744118
COX5A	0.2259111	13.299851	1.9383214	0.0845662	0.3415	-4.744625
DEFB106A	-0.179384	6.9009852	-1.938296	0.0845697	0.3415	-4.744662
USP22	0.225427	7.9839592	1.9381217	0.0845933	0.3415	-4.744918
DDX59	-0.120701	8.0896675	-1.938066	0.0846009	0.3415	-4.745
XRCC2	0.1745878	8.1702271	1.9378845	0.0846255	0.3415	-4.745265
ZNF283	-0.143926	6.9730838	-1.937752	0.0846435	0.3415	-4.745459
LETM1	0.1861229	8.4772149	1.9376592	0.0846561	0.3415	-4.745595
LINC00476	-0.118174	6.9259252	-1.937204	0.0847179	0.34166	-4.746262
UBE2F	-0.210449	9.7600405	-1.936089	0.0848695	0.34217	-4.747895
HYLS1	-0.158403	8.1610947	-1.935642	0.0849305	0.34224	-4.748551
MID1IP1	0.1946717	9.2183421	1.9356188	0.0849336	0.34224	-4.748585
ZFP2	-0.123257	6.7775907	-1.93525	0.0849838	0.34235	-4.749124
FOXO4	0.1352166	7.8655499	1.9348054	0.0850444	0.34246	-4.749776
MTHFD2L	-0.123507	7.6188952	-1.934704	0.0850582	0.34246	-4.749924
PBK	-0.259506	8.519518	-1.93431	0.085112	0.34258	-4.750502
A4GNT	0.175582	6.9741968	1.934106	0.0851398	0.3426	-4.7508
ACSF3	-0.138792	6.8976654	-1.933791	0.0851828	0.34263	-4.751261
RNPS1	0.1968258	9.111047	1.9337181	0.0851928	0.34263	-4.751368
COQ7	0.128929	7.5030412	1.9333997	0.0852363	0.34271	-4.751834
RTEL1	0.1344325	7.1152608	1.9329556	0.085297	0.34286	-4.752484
KMT5A	0.150204	8.7735974	1.932427	0.0853693	0.34297	-4.753258
MRPL35	-0.160307	9.6536715	-1.932316	0.0853846	0.34297	-4.753421
YME1L1	0.1393638	7.7027239	1.9322248	0.085397	0.34297	-4.753554
FAM86B1	0.1581711	8.0457653	1.9318527	0.085448	0.34308	-4.754099
ZFP91	0.1563446	9.337561	1.9311747	0.0855409	0.34328	-4.755091
CD70	0.1877415	11.87107	1.9307975	0.0855926	0.34328	-4.755643
BLVRB	-0.354581	7.9904033	-1.930752	0.0855988	0.34328	-4.75571
C9orf72	-0.12225	7.191505	-1.930606	0.0856189	0.34328	-4.755924
LOC220729	0.1442623	7.2325582	1.9305291	0.0856295	0.34328	-4.756036
PAK4	0.1317389	7.3282156	1.9304607	0.0856388	0.34328	-4.756136
CD3EAP	-0.159514	7.8750907	-1.930006	0.0857013	0.34344	-4.756801
NCKIPSD	-0.158455	7.8991443	-1.929467	0.0857753	0.34359	-4.75759
SCUBE1	-0.181795	6.8804799	-1.929298	0.0857986	0.34359	-4.757837
NIN	0.1798066	8.3151829	1.9292254	0.0858086	0.34359	-4.757943
USP32	-0.121367	6.9068549	-1.92889	0.0858547	0.34368	-4.758434
ARHGEF1	0.1534318	7.868254	1.9286018	0.0858944	0.34374	-4.758855
BAHD1	0.1491196	7.387925	1.9283219	0.0859329	0.3438	-4.759265
CCND3	-0.204616	12.415128	-1.927913	0.0859892	0.34384	-4.759863

PEX1	-0.159357	7.8207188	-1.927913	0.0859893	0.34384	-4.759863
AGPAT4	-0.147655	7.6679503	-1.92774	0.0860131	0.34384	-4.760116
ZNF500	0.1525944	7.5371463	1.9274616	0.0860515	0.3439	-4.760523
CASP8	-0.157863	7.102302	-1.927076	0.0861046	0.34402	-4.761086
CIAPIN1	0.131937	9.379081	1.9269057	0.0861281	0.34402	-4.761336
PPP1R13L	0.1751904	7.0816161	1.9259181	0.0862645	0.34423	-4.76278
PER1	0.1338489	6.9486894	1.9258976	0.0862674	0.34423	-4.76281
TK2	-0.145986	6.8430157	-1.925895	0.0862677	0.34423	-4.762813
RNLS	0.120993	6.9457066	1.9258414	0.0862751	0.34423	-4.762892
FANCG	-0.304905	8.8714245	-1.92421	0.086501	0.34499	-4.765276
NAGLU	0.229396	8.0692246	1.9240456	0.0865237	0.34499	-4.765516
KLF12	0.1805788	7.3592734	1.9239495	0.086537	0.34499	-4.765657
NCOR1P1	0.2122756	8.0113901	1.9237482	0.0865649	0.34501	-4.765951
KCNQ5	0.1505615	6.9392954	1.9233574	0.0866192	0.34503	-4.766522
ID3	-0.19472	9.5767673	-1.923288	0.0866288	0.34503	-4.766624
FNDC3A	-0.193481	7.7977636	-1.923188	0.0866426	0.34503	-4.766769
TMEM143	0.1377299	7.6424348	1.9226901	0.0867118	0.34522	-4.767497
TRIB2	0.1428602	7.4621227	1.9213302	0.0869009	0.34587	-4.769483
SYNRG	0.1231533	6.9841357	1.9207582	0.0869805	0.34607	-4.770319
LSS	0.1888284	8.1277169	1.9206229	0.0869994	0.34607	-4.770516
ZBTB18	0.1555343	6.8724092	1.9204616	0.0870218	0.34607	-4.770752
XPC	0.2101827	9.0116627	1.9193453	0.0871775	0.34648	-4.772382
SEC31A	0.1582386	8.5260845	1.9193116	0.0871822	0.34648	-4.772431
CASZ1	0.1537575	8.35881	1.9190678	0.0872163	0.34648	-4.772787
PRR5	0.1477465	7.5672669	1.9190495	0.0872188	0.34648	-4.772813
RPL27A	-0.156742	14.199062	-1.918746	0.0872612	0.34655	-4.773256
FECH	-0.158557	7.6554311	-1.918431	0.0873052	0.34661	-4.773716
H3F3C	0.1913231	8.5597111	1.9182984	0.0873238	0.34661	-4.77391
DDX24	0.2314536	10.211795	1.9176342	0.0874167	0.34687	-4.774879
ATP1B1	0.1457612	8.1344917	1.9174887	0.0874371	0.34687	-4.775091
RPAP1	0.1534875	7.9041545	1.9166218	0.0875585	0.34712	-4.776356
MRGPRD	0.1354726	7.0343764	1.9165285	0.0875716	0.34712	-4.776492
UNC45A	0.1376144	8.4721345	1.9165277	0.0875717	0.34712	-4.776494
PHF11	-0.132452	9.311794	-1.916019	0.087643	0.34731	-4.777236
DDX27	0.197862	8.7607909	1.9157156	0.0876856	0.34733	-4.777678
NOA1	0.1380068	9.9952096	1.9156547	0.0876942	0.34733	-4.777767
ARMC7	0.1475399	7.8779483	1.915079	0.087775	0.3475	-4.778607
CHI3L1	0.1322789	6.9137243	1.9147774	0.0878174	0.3475	-4.779047
DCP1B	0.1489711	7.3421178	1.9147696	0.0878185	0.3475	-4.779058
TBC1D4	0.1637758	7.1757998	1.9146611	0.0878338	0.3475	-4.779216
FAT2	-0.175269	6.8153911	-1.914416	0.0878682	0.34754	-4.779573
SNORA2B	-0.219861	7.1315356	-1.914171	0.0879027	0.34755	-4.779931
SLC25A26	-0.131465	7.890639	-1.913986	0.0879287	0.34755	-4.780201

MINOS1	-0.121778	7.5018299	-1.913903	0.0879404	0.34755	-4.780322
TMEM116	0.1307504	8.5732696	1.9133912	0.0880125	0.34765	-4.781068
NAGPA	0.1429144	7.6756574	1.9132667	0.08803	0.34765	-4.78125
MAP4K4	0.1681158	8.2929289	1.9130557	0.0880597	0.34765	-4.781557
NEIL2	0.1596337	7.5059209	1.9130387	0.0880621	0.34765	-4.781582
ISCA1	-0.140155	8.7686448	-1.912375	0.0881558	0.34774	-4.782551
ZMAT5	0.2023948	8.105104	1.9122422	0.0881745	0.34774	-4.782743
MTA3	-0.184117	9.9825313	-1.911954	0.0882151	0.34774	-4.783163
WDR1	0.1800145	10.086909	1.9119517	0.0882155	0.34774	-4.783167
SRXN1	0.1584967	8.5609987	1.9119214	0.0882197	0.34774	-4.783211
CETN2	-0.12225	10.873826	-1.91186	0.0882284	0.34774	-4.7833
ZC3HC1	-0.173649	10.538745	-1.911648	0.0882583	0.34777	-4.783609
SNORA3A	-0.235718	8.0538231	-1.909673	0.0885377	0.34877	-4.786488
NDFIP2	-0.217996	8.9126282	-1.90918	0.0886076	0.34892	-4.787206
FADD	-0.227912	9.5158166	-1.909073	0.0886227	0.34892	-4.787362
PKMYT1	0.2210314	7.5460519	1.9087967	0.0886619	0.34898	-4.787764
SS18L1	-0.210152	8.2284368	-1.908412	0.0887165	0.34903	-4.788325
RPA3	-0.164486	11.647566	-1.908372	0.0887222	0.34903	-4.788383
C17orf100	-0.14864	7.0571111	-1.907659	0.0888234	0.34927	-4.789421
MYL6	-0.133906	12.665486	-1.907596	0.0888323	0.34927	-4.789513
ZNF433	0.1160095	6.8129194	1.9068593	0.0889371	0.34953	-4.790586
PRKCB	0.1181898	8.3836668	1.9066423	0.088968	0.34953	-4.790902
ABCC5	-0.161878	8.0473639	-1.906629	0.0889699	0.34953	-4.790921
SEMA4A	0.1820595	8.5862726	1.9056348	0.0891114	0.35	-4.792368
PDHB	-0.180969	12.266723	-1.905117	0.0891853	0.35012	-4.793122
SNORA66	-0.209457	7.259582	-1.905077	0.089191	0.35012	-4.79318
CHCHD2	-0.13828	13.277759	-1.903827	0.0893695	0.35069	-4.795
PEX19	0.1525473	8.9231676	1.9035928	0.0894029	0.35069	-4.79534
RNMT	0.2244568	8.9991154	1.9033851	0.0894326	0.35069	-4.795642
CLRN1	0.1500337	7.1446812	1.903301	0.0894447	0.35069	-4.795765
SFXN4	-0.156916	8.7569915	-1.903195	0.0894598	0.35069	-4.795919
BARD1	0.2510861	9.0083347	1.9029116	0.0895004	0.35069	-4.796331
MLX	-0.130615	7.5519252	-1.9028	0.0895163	0.35069	-4.796493
LIN9	-0.198519	7.7892275	-1.902413	0.0895717	0.35069	-4.797057
CYB5R1	-0.309437	8.8402907	-1.902309	0.0895867	0.35069	-4.797208
SOGA1	0.134188	7.2399371	1.9022882	0.0895896	0.35069	-4.797238
EMC4	-0.157744	10.649691	-1.902202	0.0896019	0.35069	-4.797363
TCTEX1D4	0.1204952	6.9133985	1.9018316	0.089655	0.35081	-4.797902
AP1S1	0.2933165	9.1386664	1.9013095	0.0897299	0.35101	-4.798662
NRDE2	0.199233	8.5334939	1.9004603	0.0898518	0.35139	-4.799897
XPOT	-0.218619	8.798816	-1.900282	0.0898774	0.3514	-4.800156
COPZ1	0.2642463	10.396808	1.8991979	0.0900333	0.3518	-4.801732
EIF5A	0.1659236	12.453401	1.899134	0.0900425	0.3518	-4.801825

TIGD7	-0.155515	6.6977152	-1.89906	0.0900532	0.3518	-4.801933
TMEM18	-0.129547	7.8285532	-1.898457	0.09014	0.35205	-4.802809
GBP1	0.1335489	7.5047691	1.8976397	0.0902578	0.35241	-4.803997
GPAA1	0.2328354	8.2632531	1.8967284	0.0903893	0.35269	-4.805321
KEAP1	0.2745494	8.9575214	1.8963344	0.0904463	0.35269	-4.805893
GCSH	-0.11825	8.6912348	-1.896206	0.0904648	0.35269	-4.80608
LRP11	0.1335925	7.7762257	1.8961474	0.0904733	0.35269	-4.806165
POLR2B	-0.127747	10.14488	-1.896097	0.0904805	0.35269	-4.806238
FAM104B	-0.203256	7.7832486	-1.896094	0.090481	0.35269	-4.806243
RLF	0.1809554	7.7933802	1.8959652	0.0904996	0.35269	-4.80643
NELFE	-0.2114	8.9764051	-1.895556	0.0905588	0.35283	-4.807024
TWNK	0.2438403	9.3762843	1.8952193	0.0906076	0.35288	-4.807513
SPATA7	-0.145191	7.3483905	-1.895144	0.0906185	0.35288	-4.807622
BLOC1S4	-0.264607	9.2656701	-1.894413	0.0907244	0.35314	-4.808685
PAGR1	-0.169925	9.5867949	-1.894183	0.0907577	0.35314	-4.809018
CHSY1	0.1980268	9.4765505	1.8939278	0.0907947	0.35314	-4.809389
RPSAP58	-0.116728	10.750739	-1.893923	0.0907954	0.35314	-4.809395
CAB39	0.2413843	11.109396	1.8938468	0.0908065	0.35314	-4.809506
TMIGD1	-0.122977	6.8623421	-1.893199	0.0909005	0.35328	-4.810447
RUNDC1	0.1811089	8.3934743	1.8931069	0.0909139	0.35328	-4.81058
AMY1A	0.2554134	10.245221	1.8929496	0.0909367	0.35328	-4.810809
CYB5D1	-0.128726	9.3217306	-1.892917	0.0909414	0.35328	-4.810856
TRAF7	0.2303823	7.4335945	1.8919943	0.0910756	0.35359	-4.812195
SNORA52	-0.220528	7.2146792	-1.891964	0.0910799	0.35359	-4.812239
METTL6	-0.195373	7.3892885	-1.891885	0.0910915	0.35359	-4.812354
LPCAT3	0.1852755	8.9279838	1.8914897	0.091149	0.35371	-4.812928
PRG2	0.1452743	7.1989331	1.8911463	0.091199	0.35381	-4.813426
BPNT1	0.1580054	8.8138325	1.8906519	0.0912711	0.354	-4.814144
CHST4	-0.169217	7.5543382	-1.890065	0.0913566	0.35424	-4.814995
CDS2	-0.177514	8.8238285	-1.889883	0.0913832	0.35425	-4.815259
PTPRE	0.1164537	7.0209345	1.889603	0.0914241	0.35428	-4.815665
ARIH2OS	-0.14307	6.8650302	-1.889497	0.0914396	0.35428	-4.81582
SPSB2	0.187554	7.9745631	1.8891494	0.0914903	0.35435	-4.816323
LOC646034	-0.139186	7.5137754	-1.889039	0.0915065	0.35435	-4.816484
GMCL1	0.1895036	8.1992721	1.8886907	0.0915574	0.35443	-4.816989
C19orf25	0.2057123	7.8355002	1.888566	0.0915756	0.35443	-4.81717
IFI27L2	-0.176495	7.8665675	-1.888335	0.0916094	0.35445	-4.817504
SIX1	0.1844909	7.0883842	1.8881945	0.09163	0.35445	-4.817708
CCDC24	-0.130582	8.4212601	-1.887672	0.0917065	0.35464	-4.818467
POLD1	0.2721779	8.8757267	1.8875316	0.091727	0.35464	-4.81867
THEM6	-0.264856	9.8459596	-1.887261	0.0917667	0.3547	-4.819063
SEC14L3	0.2187299	6.8965577	1.8869185	0.0918168	0.3548	-4.819558
XRCC4	-0.140313	6.8155968	-1.886368	0.0918975	0.35501	-4.820356

NARS2	-0.169155	9.0650859	-1.885689	0.0919973	0.35531	-4.821341
MON1A	0.1467519	7.3773947	1.8852523	0.0920614	0.35546	-4.821974
SARNP	-0.166272	10.825023	-1.884525	0.0921683	0.35574	-4.823028
ZXDB	0.1383024	7.1169485	1.8844289	0.0921825	0.35574	-4.823167
GLG1	0.2283682	10.053746	1.8841252	0.0922272	0.35581	-4.823607
AP5B1	-0.145028	7.0630424	-1.88395	0.092253	0.35581	-4.823861
RDH5	-0.158549	7.5506011	-1.88381	0.0922736	0.35581	-4.824064
2-Mar	0.1341161	7.2566248	1.883162	0.0923691	0.35601	-4.825002
PTPMT1	-0.169905	9.8110993	-1.883126	0.0923743	0.35601	-4.825054
CCDC71	0.2748314	8.2013403	1.8828472	0.0924155	0.35607	-4.825458
TBCC	-0.170229	8.1806778	-1.882426	0.0924776	0.35608	-4.826068
PLEKHF1	-0.163754	7.6617124	-1.882414	0.0924794	0.35608	-4.826086
PTEN	0.1821388	9.7173983	1.882222	0.0925077	0.35608	-4.826364
GPR34	-0.13682	6.7667022	-1.881929	0.092551	0.35608	-4.826789
GGA2	-0.201349	9.3523422	-1.881864	0.0925606	0.35608	-4.826883
ZNF789	-0.172596	7.887131	-1.881851	0.0925626	0.35608	-4.826902
NPR2	-0.137977	7.0817264	-1.880955	0.092695	0.35649	-4.828199
ATG2A	0.2196229	8.0998571	1.8799976	0.0928367	0.35694	-4.829585
THOC5	0.1411424	9.1179368	1.8795059	0.0929095	0.35706	-4.830297
P2RX5	0.3694579	8.9857414	1.8794613	0.0929161	0.35706	-4.830361
RPL7P9	-0.195096	9.8346138	-1.878847	0.0930073	0.35732	-4.831251
CD2	0.122261	6.9172933	1.8781482	0.093111	0.35747	-4.832261
TRA2B	-0.216373	11.083389	-1.877948	0.0931407	0.35747	-4.832551
NDUFB1	-0.117664	7.287208	-1.877932	0.0931431	0.35747	-4.832574
ZSCAN29	-0.174465	7.0964592	-1.87792	0.0931448	0.35747	-4.832591
UBXN8	-0.141852	7.079664	-1.877743	0.0931712	0.35747	-4.832848
TIMM44	0.2033008	9.0018802	1.8770247	0.093278	0.35779	-4.833887
SLC44A2	0.1860498	10.562538	1.8766006	0.0933411	0.35794	-4.834501
GABARAPL2	-0.220669	9.7969449	-1.876421	0.0933679	0.35795	-4.83476
C21orf2	-0.154158	8.1427433	-1.875682	0.093478	0.35821	-4.83583
INTS11	0.2531275	8.5440461	1.8756363	0.0934848	0.35821	-4.835895
RPH3AL	0.1360006	6.9977129	1.8753418	0.0935287	0.35828	-4.836321
IREB2	0.1822136	8.026951	1.8750697	0.0935693	0.35834	-4.836715
ADA2	0.1388993	7.552136	1.8748536	0.0936015	0.35837	-4.837027
BTNL2	-0.124421	6.7926846	-1.87429	0.0936857	0.3586	-4.837841
ZNF337	0.1284032	8.293133	1.8735441	0.0937972	0.35893	-4.83892
PIGU	-0.248375	9.1125302	-1.872816	0.0939062	0.35906	-4.839973
MGME1	-0.159953	9.5571063	-1.872813	0.0939065	0.35906	-4.839976
DUSP1	0.1594948	7.9230779	1.8724705	0.0939579	0.35906	-4.840472
C17orf78	-0.157497	6.9855702	-1.872469	0.0939581	0.35906	-4.840474
PPP4C	-0.148073	10.394272	-1.872383	0.0939709	0.35906	-4.840598
ALOXE3	0.1237469	6.9479451	1.8723342	0.0939783	0.35906	-4.840669
GSDMB	-0.237567	7.7430071	-1.872065	0.0940186	0.35912	-4.841058

ZNF324	0.1776544	8.0586276	1.871406	0.0941175	0.3594	-4.84201
SF3B1	0.1281568	8.5321182	1.8712001	0.0941484	0.35943	-4.842308
CLCN5	0.1995464	6.9150072	1.8709927	0.0941795	0.35945	-4.842607
PRKAR1B	0.2750721	8.6811747	1.8698728	0.0943478	0.36	-4.844225
FCRL4	0.2169854	7.9723106	1.8692034	0.0944485	0.36029	-4.845192
TMEM230	0.145419	11.425817	1.8688794	0.0944973	0.36038	-4.84566
GNL3L	0.2223896	8.7389756	1.868233	0.0945947	0.36042	-4.846593
LOC1005075	0.1554782	7.069743	1.8679725	0.094634	0.36042	-4.846969
POT1	-0.124254	7.4570057	-1.867648	0.094683	0.36042	-4.847438
GNL2	-0.33591	10.128106	-1.867626	0.0946863	0.36042	-4.84747
SMC3	0.2070985	8.3151889	1.8676104	0.0946886	0.36042	-4.847492
HLA-B	0.3536736	11.698941	1.8674939	0.0947062	0.36042	-4.84766
TMEM136	0.1499593	6.7505585	1.8673353	0.0947301	0.36042	-4.847889
MEMO1	-0.187185	9.1708501	-1.867154	0.0947575	0.36042	-4.848151
HELQ	-0.166328	7.6314373	-1.867101	0.0947655	0.36042	-4.848227
IPPK	-0.145825	7.593878	-1.86704	0.0947747	0.36042	-4.848315
CPT1B	-0.154962	7.1303692	-1.867019	0.0947778	0.36042	-4.848345
MIR1909	0.1386471	7.0173013	1.8665317	0.0948515	0.3606	-4.849049
SLC9A8	0.1467296	7.5192682	1.8651622	0.0950587	0.3613	-4.851025
EXOSC6	0.1722894	9.8358523	1.8649266	0.0950944	0.36134	-4.851365
SLITRK1	0.1280844	6.9631128	1.8647501	0.0951211	0.36135	-4.85162
LYPLA2	0.2399234	8.2811341	1.8643419	0.095183	0.36149	-4.852209
SIGLEC6	-0.127693	7.3598303	-1.863742	0.0952741	0.36173	-4.853074
RECQL5	-0.129961	6.9790715	-1.863598	0.0952958	0.36173	-4.853281
FGFR3	0.1204866	6.9632827	1.8632319	0.0953515	0.36182	-4.85381
ST3GAL6	-0.242175	7.3556424	-1.863104	0.0953709	0.36182	-4.853994
ENDOG	0.13972	8.2656909	1.8628863	0.095404	0.36186	-4.854308
TRA2A	-0.167222	9.0154557	-1.862392	0.095479	0.36201	-4.85502
CSTF2T	0.1523346	7.3054766	1.8619748	0.0955426	0.36201	-4.855622
LBHD1	-0.192475	10.732526	-1.861898	0.0955543	0.36201	-4.855733
CAD	0.2762013	9.1021205	1.861756	0.0955759	0.36201	-4.855938
EXOSC1	-0.217857	10.925842	-1.861611	0.095598	0.36201	-4.856147
FRRS1	0.1181659	7.1750953	1.8614284	0.0956258	0.36201	-4.85641
THAP4	0.2071063	7.6008047	1.8613824	0.0956328	0.36201	-4.856476
GNB4	0.1241782	7.0005945	1.8613117	0.0956435	0.36201	-4.856578
SLC52A2	0.2768333	9.4399087	1.8611106	0.0956742	0.36203	-4.856868
NSUN5	-0.140459	7.8425766	-1.860454	0.0957743	0.36223	-4.857815
PHTF2	0.2231761	7.3624866	1.8601567	0.0958196	0.36223	-4.858243
VCAM1	0.1452531	7.7939898	1.8600777	0.0958317	0.36223	-4.858357
RRAS2	-0.136855	10.153021	-1.860027	0.0958394	0.36223	-4.858429
CWC27	-0.176519	9.5544364	-1.859834	0.0958688	0.36223	-4.858708
LHX2	0.1535769	6.9699928	1.8597915	0.0958753	0.36223	-4.858769
CEBPG	0.1558672	9.4203966	1.8596203	0.0959015	0.36224	-4.859016

HLF	-0.156162	6.894928	-1.85929	0.095952	0.36233	-4.859492
MFSD11	0.2448329	8.7341102	1.8590592	0.0959872	0.36234	-4.859824
C19orf57	0.1490932	6.9185627	1.8589596	0.0960024	0.36234	-4.859968
GOLGA5	-0.250438	9.0002514	-1.858513	0.0960708	0.36236	-4.860612
IL20RB	-0.122476	6.9886392	-1.858468	0.0960777	0.36236	-4.860677
SNAPC5	-0.208909	7.5505809	-1.858431	0.0960832	0.36236	-4.860729
SH3KBP1	0.2181202	11.10484	1.8579376	0.0961588	0.36255	-4.86144
CENPBD1	0.1441529	7.6770809	1.8574573	0.0962323	0.36269	-4.862132
GOLGA2	-0.116445	7.6606251	-1.857172	0.0962761	0.36269	-4.862544
SAPCD2	0.3213451	8.9583425	1.857096	0.0962877	0.36269	-4.862652
ELOVL5	-0.153884	9.8748642	-1.856873	0.096322	0.36269	-4.862974
HAGH	-0.208152	7.8573811	-1.856485	0.0963813	0.36269	-4.863532
PLCB2	-0.131739	6.8828292	-1.856451	0.0963867	0.36269	-4.863582
KIF2C	0.176703	9.1919185	1.8564138	0.0963923	0.36269	-4.863635
CDNF	0.1221363	6.8533487	1.8563088	0.0964084	0.36269	-4.863786
POLDIP3	0.1749381	8.5394451	1.8562439	0.0964184	0.36269	-4.863879
NPAT	0.2173185	7.432125	1.8554406	0.0965418	0.36306	-4.865036
EIF3C	-0.259449	7.8420894	-1.855275	0.0965672	0.36306	-4.865274
NDUFA13	0.2193127	10.620464	1.855038	0.0966036	0.3631	-4.865615
TPGS2	0.1298518	9.5639474	1.8543679	0.0967067	0.3634	-4.86658
CES2	0.15474	8.2044128	1.8536182	0.0968222	0.36363	-4.867659
RARRES3	-0.181936	8.7043569	-1.853566	0.0968302	0.36363	-4.867734
MAP3K1	0.2314751	9.3804496	1.8533112	0.0968695	0.36363	-4.868101
SUMO1P3	-0.161396	8.13745	-1.853066	0.0969073	0.36363	-4.868453
NANP	-0.136275	7.3609922	-1.853041	0.0969112	0.36363	-4.86849
GABBR1	-0.136864	7.0421759	-1.852999	0.0969176	0.36363	-4.86855
PTCHD4	0.1222059	7.2248744	1.8522536	0.0970326	0.36397	-4.869622
IDO2	0.1544086	7.3734729	1.8520073	0.0970707	0.36402	-4.869977
DNAJC14	0.1485163	8.4010379	1.8516349	0.0971282	0.36407	-4.870512
GSG2	0.1852908	8.1978298	1.8511688	0.0972003	0.36407	-4.871183
PQLC3	-0.130827	8.1222526	-1.850954	0.0972335	0.36407	-4.871491
CD1C	0.1303881	6.903295	1.8509468	0.0972346	0.36407	-4.871502
DGAT1	0.1244071	7.7572177	1.8508879	0.0972437	0.36407	-4.871587
RPL13	-0.126991	9.7201407	-1.850815	0.097255	0.36407	-4.871691
STRADB	0.1583908	8.608876	1.8506798	0.0972759	0.36407	-4.871886
ST8SIA3	-0.120988	6.9266045	-1.850615	0.097286	0.36407	-4.87198
PHF19	0.1405747	8.7340641	1.8503414	0.0973283	0.36411	-4.872372
KCTD10	0.1472687	8.1796298	1.8502327	0.0973451	0.36411	-4.872529
CLCN7	-0.167805	10.286754	-1.849927	0.0973925	0.36417	-4.872968
HYI	0.1373015	6.8109555	1.8496914	0.097429	0.36417	-4.873307
WASHC3	-0.156381	9.5381508	-1.849643	0.0974365	0.36417	-4.873377
OS9	0.1992392	7.5549216	1.8487825	0.0975699	0.36446	-4.874614
NDUFS7	-0.278577	11.575028	-1.848761	0.0975733	0.36446	-4.874644

SNORA10	-0.222541	8.2822097	-1.848659	0.0975891	0.36446	-4.874791
GRB14	0.1565734	7.0185266	1.8476759	0.0977418	0.36493	-4.876204
SLC16A12	0.1999605	9.6460253	1.8474431	0.097778	0.36493	-4.876539
TSPOAP1	-0.141052	6.8354751	-1.847354	0.0977919	0.36493	-4.876667
IFNLR1	-0.152458	8.5613976	-1.847206	0.0978149	0.36493	-4.876879
NAA60	0.1602279	7.9458067	1.8470156	0.0978445	0.36495	-4.877153
SIPA1L2	0.1186136	6.7725353	1.8468569	0.0978692	0.36495	-4.877381
GPR146	-0.137833	6.9374875	-1.846386	0.0979425	0.36508	-4.878057
LINC01873	-0.12669	7.1550049	-1.846249	0.0979639	0.36508	-4.878255
TRPT1	-0.230547	10.584068	-1.846062	0.0979929	0.36508	-4.878522
EFNA3	-0.134615	6.9301594	-1.845977	0.0980062	0.36508	-4.878645
RAD52	-0.122196	6.8344083	-1.843935	0.098325	0.36593	-4.881578
CBFA2T3	-0.115924	6.872022	-1.8439	0.0983305	0.36593	-4.881628
FBLIM1	0.1366112	6.9492171	1.8438632	0.0983362	0.36593	-4.88168
AP1B1	0.186007	8.6148522	1.8438393	0.0983399	0.36593	-4.881715
TAF12	-0.174395	9.0212594	-1.843714	0.0983595	0.36593	-4.881894
FNTB	-0.136246	8.2670372	-1.842901	0.0984867	0.36631	-4.883062
CASP3	-0.138687	8.4482491	-1.841866	0.0986488	0.36682	-4.884547
VASH1	-0.152846	6.7700646	-1.84104	0.0987785	0.36716	-4.885733
MYBL2	0.1668055	7.3994142	1.8408166	0.0988136	0.36716	-4.886053
PARP6	-0.118316	7.2969348	-1.840738	0.098826	0.36716	-4.886166
BCDIN3D	-0.180516	9.0966683	-1.840643	0.0988408	0.36716	-4.886302
LINC02036	-0.178905	7.0114284	-1.840307	0.0988936	0.36724	-4.886784
BTLA	-0.133723	7.2471094	-1.840187	0.0989125	0.36724	-4.886956
MRPS9	-0.174285	10.409512	-1.839644	0.0989978	0.36729	-4.887734
ADAMTSL3	-0.199854	7.0546356	-1.839512	0.0990186	0.36729	-4.887924
AFF2	0.2322631	7.3997185	1.8391934	0.0990688	0.36729	-4.888381
GUCA1A	0.1728021	6.9916114	1.8389916	0.0991006	0.36729	-4.888671
HOXC4	0.1363665	7.9741794	1.8388581	0.0991216	0.36729	-4.888862
GTF2I	0.1357146	7.6216929	1.838822	0.0991273	0.36729	-4.888914
CMTM4	0.1285103	7.1313452	1.8388155	0.0991283	0.36729	-4.888923
TAF4	0.1985965	8.7741688	1.8388029	0.0991303	0.36729	-4.888941
IL17D	-0.160042	6.8937185	-1.838667	0.0991517	0.36729	-4.889136
MFN2	0.1641918	10.266782	1.838355	0.0992008	0.36738	-4.889584
PNPLA7	-0.132718	7.5325813	-1.837819	0.0992853	0.36756	-4.890352
KIF1BP	0.1305207	7.2961572	1.837721	0.0993008	0.36756	-4.890493
C2orf88	-0.141	7.720806	-1.83703	0.0994098	0.36779	-4.891483
SSNA1	0.2120472	9.1272173	1.8368497	0.0994384	0.36779	-4.891742
TMEM245	0.1793767	8.9027286	1.8366819	0.0994649	0.36779	-4.891982
INO80E	0.3262467	9.2697396	1.836646	0.0994706	0.36779	-4.892034
NOL7	-0.259733	12.164707	-1.836536	0.0994879	0.36779	-4.892191
PEX16	0.1179484	8.4080476	1.8362658	0.0995306	0.36785	-4.892578
MTERF1	-0.134618	7.9717399	-1.835873	0.0995928	0.36791	-4.893142

RBBP4	-0.154408	8.2062551	-1.835771	0.0996089	0.36791	-4.893288
NAA30	0.1171436	7.5115431	1.8356104	0.0996343	0.36791	-4.893518
SAMD1	0.2112904	7.7174833	1.8355257	0.0996477	0.36791	-4.893639
HMBOX1	0.1893405	7.5946915	1.8345782	0.0997978	0.36831	-4.894997
CROCC	0.1567608	6.9434732	1.8345148	0.0998079	0.36831	-4.895087
SPRN	-0.143267	7.2208927	-1.833985	0.0998919	0.36831	-4.895846
ACADM	-0.196124	10.793587	-1.833975	0.0998934	0.36831	-4.89586
TBC1D2	-0.119979	7.0499916	-1.833926	0.0999013	0.36831	-4.895931
DFNB59	-0.14217	7.1558879	-1.833504	0.0999683	0.36831	-4.896536
ZNF415	-0.125149	6.8486205	-1.83335	0.0999927	0.36831	-4.896756
NFKBIE	-0.138839	10.383583	-1.833187	0.1000186	0.36831	-4.89699
RIBC2	0.1184246	6.7753117	1.8331391	0.1000262	0.36831	-4.897058
CCDC174	-0.178317	9.1184597	-1.833082	0.1000351	0.36831	-4.897139
ZNF628	0.1928646	7.1063163	1.8330256	0.1000442	0.36831	-4.89722
MBLAC2	-0.17236	7.5309765	-1.832937	0.1000582	0.36831	-4.897347
BNIPL	-0.139024	6.9977648	-1.831799	0.1002392	0.3688	-4.898976
DCP1A	0.1788563	8.3728896	1.8317833	0.1002417	0.3688	-4.898999
SLC41A3	-0.280975	8.8665364	-1.830813	0.1003962	0.36927	-4.900388
WDR90	-0.212477	7.5125463	-1.830601	0.1004301	0.36931	-4.900691
MIR1228	0.1987866	8.1893877	1.8302635	0.1004839	0.36941	-4.901175
TMEM192	0.1401924	8.1660535	1.8297033	0.1005733	0.3696	-4.901976
POLR1A	0.1578063	7.6566692	1.8295685	0.1005948	0.3696	-4.902169
CRAT	0.1275407	6.9858189	1.829466	0.1006112	0.3696	-4.902316
TRIM78P	-0.166557	6.9507359	-1.828909	0.1007002	0.36983	-4.903113
LINC01567	-0.150921	7.4929632	-1.828598	0.1007499	0.36983	-4.903557
ECHDC1	-0.209545	7.4919441	-1.82859	0.1007512	0.36983	-4.90357
LSR	0.1466739	7.0790978	1.8284328	0.1007763	0.36983	-4.903794
DLGAP4	0.1319963	7.1817022	1.8280908	0.100831	0.36994	-4.904283
MTBP	-0.1565	7.1291658	-1.827686	0.1008958	0.37009	-4.904862
IQCB1	-0.1415	8.1167206	-1.827093	0.1009908	0.37034	-4.90571
TAAR3P	0.1282529	6.8515678	1.8262233	0.1011303	0.37064	-4.906954
ZDHHC6	-0.15829	9.5310306	-1.826125	0.1011461	0.37064	-4.907094
DNAJC16	0.1401619	6.9248107	1.8258786	0.1011857	0.37064	-4.907447
DCTD	0.1390628	9.7717069	1.8258467	0.1011908	0.37064	-4.907492
BAZ2B	-0.181429	7.8093697	-1.82552	0.1012433	0.37064	-4.90796
MRPS14	-0.160379	7.6568304	-1.825275	0.1012826	0.37064	-4.908309
TSPYL1	-0.17509	9.4700878	-1.825128	0.1013062	0.37064	-4.908519
CD27	0.1597519	11.252535	1.8250326	0.1013216	0.37064	-4.908656
UBR1	-0.201221	7.1595946	-1.825016	0.1013243	0.37064	-4.90868
RPL26L1	-0.129542	10.064629	-1.824977	0.1013305	0.37064	-4.908735
FAM204A	-0.200427	7.3701269	-1.824676	0.1013789	0.37064	-4.909165
AK2	-0.12414	10.450924	-1.824671	0.1013797	0.37064	-4.909173
LHX6	-0.149463	6.8535924	-1.824525	0.1014031	0.37064	-4.909381

LOC441666	-0.138919	6.9613978	-1.824055	0.1014788	0.37083	-4.910053
MTHFS	-0.142449	9.2501271	-1.823777	0.1015236	0.37085	-4.91045
FAM102B	0.2424358	7.5130814	1.8236995	0.1015361	0.37085	-4.910561
MR1	-0.120055	8.0401285	-1.823282	0.1016033	0.371	-4.911157
E2F1	-0.242195	7.7313459	-1.82279	0.1016826	0.3712	-4.91186
MEPCE	0.1982964	8.6841599	1.8222287	0.1017733	0.37144	-4.912662
ZSCAN26	-0.192913	7.6454832	-1.821711	0.1018569	0.37153	-4.913402
MGAT3	0.214721	8.7232007	1.8216445	0.1018676	0.37153	-4.913497
FAM207A	0.1162647	7.8081107	1.8215992	0.1018749	0.37153	-4.913561
DDRGK1	0.1598025	8.6798309	1.8214044	0.1019064	0.37155	-4.913839
NUP153	0.1899044	9.7922119	1.8211617	0.1019457	0.3716	-4.914186
PSME3	0.1807826	10.556675	1.8209757	0.1019757	0.3716	-4.914452
HNRNPA0	0.1187685	10.796043	1.8208466	0.1019966	0.3716	-4.914636
RB1	0.2361133	8.1552622	1.8203775	0.1020725	0.37179	-4.915306
TMEM223	0.146739	8.1683526	1.8200024	0.1021332	0.37191	-4.915841
CDC26	-0.148168	10.455125	-1.81964	0.102192	0.37204	-4.916359
DECR1	-0.255744	10.699263	-1.81928	0.1022503	0.37216	-4.916872
TUBB4A	0.1242314	6.9609009	1.8189715	0.1023004	0.37216	-4.917313
FLNA	0.3332867	7.4236446	1.8188929	0.1023131	0.37216	-4.917425
TMCO6	-0.135297	7.5863985	-1.818795	0.1023289	0.37216	-4.917564
ATG16L2	-0.161852	7.8475512	-1.818036	0.1024522	0.3725	-4.918648
DUSP16	0.1378485	7.4088981	1.8178678	0.1024795	0.3725	-4.918888
HNRNPUL1	0.1380299	8.8988235	1.8176083	0.1025217	0.3725	-4.919258
LOC148709	0.1732865	7.0671691	1.8175921	0.1025243	0.3725	-4.919281
GPR160	-0.221502	7.83006	-1.816435	0.1027126	0.37306	-4.920932
LOC729545	-0.144815	6.907431	-1.816333	0.1027292	0.37306	-4.921078
PCSK4	-0.148839	6.9629174	-1.816102	0.1027668	0.3731	-4.921407
RAPGEF6	0.1946388	8.7242687	1.8159047	0.1027989	0.37311	-4.921688
ITGB7	0.3240202	9.4120575	1.8157783	0.1028195	0.37311	-4.921868
MAGEB2	0.1239247	6.7948409	1.8155204	0.1028616	0.37317	-4.922236
DNAAF1	-0.129686	7.0550398	-1.815241	0.1029072	0.37319	-4.922635
LHFPL2	0.1799382	8.8841532	1.8151728	0.1029183	0.37319	-4.922732
PSMB9	0.170649	9.0243659	1.8148894	0.1029645	0.37327	-4.923136
EFEMP2	-0.126841	6.8442103	-1.813606	0.1031742	0.37393	-4.924966
MRPL18	-0.152858	11.182175	-1.812917	0.1032868	0.37425	-4.925947
CRKL	0.1382585	10.763992	1.8124435	0.1033644	0.37435	-4.926622
FKBP11	-0.18811	11.73873	-1.812429	0.1033668	0.37435	-4.926643
CCDC74B	-0.151895	7.9457564	-1.811974	0.1034413	0.3744	-4.927291
DCAF16	0.1729233	8.1917306	1.8118329	0.1034644	0.3744	-4.927492
ARHGDIB	-0.247974	13.925974	-1.811765	0.1034756	0.3744	-4.927589
UFC1	0.1957649	10.326468	1.81172	0.1034829	0.3744	-4.927653
HOXB3	-0.109525	6.8432072	-1.811006	0.1036	0.37453	-4.92867
SIAH3	-0.151715	6.9076617	-1.810844	0.1036266	0.37453	-4.928901

RGS6	-0.132749	6.9245821	-1.810815	0.1036315	0.37453	-4.928943
KCTD5	0.1505411	8.7107635	1.8107874	0.1036359	0.37453	-4.928981
CDC42EP3	0.1437193	7.1258124	1.8107197	0.103647	0.37453	-4.929078
BCL6B	-0.137588	6.9962792	-1.810196	0.103733	0.37474	-4.929823
KIAA0232	-0.176588	7.1244374	-1.81005	0.1037571	0.37474	-4.930032
HACD2	0.1973918	10.267445	1.8091551	0.1039042	0.37518	-4.931306
SLU7	0.1708427	7.8796626	1.8089069	0.1039451	0.37524	-4.931659
DNASE1	-0.127507	6.912616	-1.808592	0.103997	0.3753	-4.932108
TRAF5	-0.139519	7.1949744	-1.808494	0.1040131	0.3753	-4.932247
DHX33	0.2671753	9.763001	1.8076798	0.1041473	0.37569	-4.933406
N4BP2L2	-0.133933	7.2116064	-1.807235	0.1042207	0.37578	-4.934039
UBQLN2	0.1810644	9.7774601	1.8072125	0.1042244	0.37578	-4.934071
CALM3	0.1488864	12.578748	1.806972	0.1042641	0.37583	-4.934413
TNF	0.1096567	8.7091879	1.8065553	0.1043329	0.37598	-4.935006
APEX2	0.2532814	9.6280453	1.8062536	0.1043828	0.37607	-4.935435
ZNFX1	0.1643543	8.5101416	1.8057968	0.1044583	0.37625	-4.936085
NGRN	-0.121743	9.6854156	-1.805555	0.1044983	0.3763	-4.936429
PLA2G15	0.1891986	7.3957374	1.8050541	0.1045812	0.37651	-4.937142
ERICH1	-0.140427	8.6590973	-1.804842	0.1046164	0.37654	-4.937444
ASCC2	-0.260669	10.91593	-1.804072	0.1047439	0.37691	-4.938538
SNHG3	-0.153872	7.110833	-1.803858	0.1047794	0.37694	-4.938843
MIR519D	0.1298197	6.8479282	1.8032249	0.1048845	0.37723	-4.939743
KRTAP5-10	-0.141127	6.9400584	-1.802802	0.1049547	0.37739	-4.940344
KIAA0895	0.1604057	7.1081602	1.8025723	0.1049929	0.37743	-4.940671
ASTE1	-0.222127	8.1520634	-1.801317	0.1052017	0.37809	-4.942455
METTL17	-0.158218	8.4269577	-1.80111	0.1052361	0.37812	-4.942749
PTX4	0.1213085	7.0035903	1.800504	0.1053371	0.37839	-4.94361
COPS8	-0.159883	9.6364602	-1.800012	0.1054192	0.37841	-4.944309
LEPROT	0.2561785	8.5588393	1.7999562	0.1054285	0.37841	-4.944388
ITFG1	0.1536319	9.0588865	1.7997522	0.1054625	0.37841	-4.944678
DEFB122	-0.115624	6.8623345	-1.799045	0.1055806	0.37841	-4.945683
MRPL3	-0.171414	10.015911	-1.799028	0.1055834	0.37841	-4.945707
ZC3H10	0.1533535	7.9833317	1.7990092	0.1055865	0.37841	-4.945733
TACR3	0.1320622	7.0755077	1.7988234	0.1056176	0.37841	-4.945997
GALNT8	-0.168515	6.8937954	-1.798714	0.1056359	0.37841	-4.946153
YARS	-0.134686	11.71856	-1.798627	0.1056504	0.37841	-4.946276
NUDC	0.1791944	12.851562	1.7985711	0.1056598	0.37841	-4.946355
CXCL12	0.1361036	6.8334697	1.7985252	0.1056674	0.37841	-4.94642
AMZ2	-0.127769	8.8510447	-1.798416	0.1056857	0.37841	-4.946576
ECH1	-0.123975	10.399083	-1.798395	0.1056892	0.37841	-4.946606
RRP1	0.1196586	7.6590614	1.7982986	0.1057053	0.37841	-4.946742
SMARCE1	-0.229826	9.2436019	-1.797901	0.1057719	0.37855	-4.947307
DLEU7	-0.130439	6.9335263	-1.796957	0.1059299	0.37903	-4.948647

TLE1	-0.131818	6.8189971	-1.796625	0.1059855	0.37913	-4.949118
SPAG17	0.1124536	6.7899544	1.7961678	0.1060622	0.37915	-4.949767
SASS6	-0.133749	7.0957233	-1.79606	0.1060803	0.37915	-4.94992
MTO1	-0.143483	9.4063423	-1.795899	0.1061073	0.37915	-4.950148
ZNF254	-0.144027	7.3658597	-1.795867	0.1061126	0.37915	-4.950193
GANAB	0.1996355	9.4564288	1.7958128	0.1061218	0.37915	-4.950271
LAMA5	-0.115968	6.8352302	-1.795674	0.1061451	0.37915	-4.950467
RTN4R	0.1614159	6.8012435	1.7951437	0.1062341	0.37937	-4.95122
SLC25A43	-0.12808	8.6962961	-1.794909	0.1062735	0.37941	-4.951552
AP2M1	0.269537	9.3317997	1.7947612	0.1062984	0.37941	-4.951763
NUDT14	0.1861364	8.8869452	1.7939501	0.1064348	0.37972	-4.952913
CHRNE	0.1584484	7.1361302	1.7939387	0.1064368	0.37972	-4.952929
MAP6D1	-0.147581	7.598601	-1.793574	0.1064982	0.37985	-4.953447
LSP1	0.1907481	7.8553705	1.792643	0.106655	0.38032	-4.954767
BSPRY	-0.125489	6.9651994	-1.792425	0.1066918	0.38035	-4.955076
PODXL	0.131573	8.1970866	1.792238	0.1067233	0.38037	-4.955341
CREB1	0.1591495	8.920975	1.7916579	0.1068213	0.38063	-4.956163
MSANTD2	-0.122964	7.3203733	-1.790981	0.1069356	0.38094	-4.957123
RPL35	-0.165845	13.545245	-1.790344	0.1070434	0.38118	-4.958026
WASHC2A	-0.160095	7.1995666	-1.790272	0.1070555	0.38118	-4.958127
CDK5	0.1738118	9.0191374	1.7899872	0.1071037	0.38123	-4.958531
CAPN15	0.1546028	7.2395394	1.7898864	0.1071208	0.38123	-4.958674
LAP3	-0.142389	10.746774	-1.789447	0.1071953	0.38135	-4.959297
TFRC	0.2004691	11.986877	1.7893741	0.1072076	0.38135	-4.9594
C7orf49	0.1157357	8.5510818	1.7891467	0.1072461	0.3814	-4.959722
SEH1L	0.1401458	9.5310821	1.7888619	0.1072944	0.38148	-4.960125
NAPB	-0.207431	8.6908119	-1.788194	0.1074076	0.38179	-4.961071
RNF5P1	0.152503	8.6850815	1.787919	0.1074544	0.38186	-4.961461
SAE1	0.1153716	12.746708	1.7876915	0.107493	0.3819	-4.961783
MPP2	0.1410498	7.0277806	1.7873735	0.107547	0.382	-4.962233
GNL3	-0.147328	9.5332849	-1.786672	0.1076662	0.38233	-4.963226
ITFG2	0.1869551	9.2458804	1.7862411	0.1077396	0.38236	-4.963837
HMCES	0.1689548	8.0566873	1.7861134	0.1077614	0.38236	-4.964017
LINC00898	0.1863731	6.8883749	1.7859122	0.1077956	0.38236	-4.964302
CENPBD1P1	0.1688079	7.2910252	1.78578	0.1078181	0.38236	-4.964489
MFSD6L	-0.11762	7.0764862	-1.785742	0.1078245	0.38236	-4.964543
INO80	0.1656132	7.9079155	1.7856365	0.1078426	0.38236	-4.964692
ZNF185	-0.130464	7.2231621	-1.785391	0.1078844	0.38236	-4.96504
FN1	0.168928	7.0527118	1.7852571	0.1079072	0.38236	-4.965229
DTNA	-0.10921	7.0201431	-1.785237	0.1079106	0.38236	-4.965257
TRIM24	0.1216076	7.7139614	1.7843992	0.1080535	0.38272	-4.966443
NDC1	0.1343453	8.4324668	1.784335	0.1080645	0.38272	-4.966534
LOC100506(	-0.137092	6.9613928	-1.784181	0.1080907	0.38272	-4.966751

RPRD2	0.1163617	7.7372373	1.7837421	0.1081657	0.3829	-4.967373
SNORD84	-0.145891	7.3623548	-1.783501	0.108207	0.38295	-4.967714
PLEC	0.114458	6.9263402	1.7830652	0.1082814	0.38305	-4.96833
ZSCAN25	0.1442664	7.1942943	1.7830295	0.1082876	0.38305	-4.968381
RAD1	-0.184532	8.512945	-1.782778	0.1083306	0.38311	-4.968737
TRDMT1	-0.125761	6.9887448	-1.782091	0.1084481	0.38343	-4.969708
PUSL1	0.1863823	8.3722676	1.7807994	0.1086696	0.38412	-4.971534
ZNF430	0.1558469	9.8218396	1.780352	0.1087463	0.3843	-4.972167
TMEM59L	0.1533416	7.0024381	1.7799718	0.1088116	0.38444	-4.972704
PSMA4	-0.167076	11.63435	-1.779739	0.1088516	0.38446	-4.973033
NACA2	0.1176041	8.1827941	1.7796247	0.1088713	0.38446	-4.973195
P2RX2	-0.138726	6.857955	-1.778508	0.1090634	0.38496	-4.974773
TBX22	0.1208178	6.9664283	1.7784927	0.109066	0.38496	-4.974794
THOC7	-0.20141	11.769638	-1.778087	0.1091359	0.38507	-4.975367
MIR1227	0.1453693	6.8929985	1.7779346	0.1091621	0.38507	-4.975582
C1GALT1C1L	-0.118562	6.7690571	-1.777752	0.1091935	0.38507	-4.97584
HLA-DRB6	0.1485428	10.422144	1.7776961	0.1092032	0.38507	-4.975919
RHOT2	0.2569896	8.5345947	1.7772818	0.1092746	0.38523	-4.976504
RASL11B	0.1234565	6.9177165	1.7769836	0.1093261	0.38525	-4.976926
WDR73	0.2601447	7.8356457	1.7766764	0.1093791	0.38525	-4.977359
EMG1	0.1203248	10.988762	1.7766473	0.1093841	0.38525	-4.9774
PNN	-0.158664	9.8312164	-1.776646	0.1093844	0.38525	-4.977403
DDTL	-0.18945	7.4178746	-1.776399	0.109427	0.3853	-4.977751
TRIM69	0.144471	8.2549972	1.7761828	0.1094643	0.38534	-4.978056
GHRHR	0.1419751	6.9350324	1.7752599	0.1096238	0.38581	-4.979359
TOR2A	0.2140422	7.2516491	1.7748436	0.1096959	0.38597	-4.979947
DDX21	0.1488603	11.914271	1.7746333	0.1097323	0.38601	-4.980244
NEIL1	0.1576503	6.9926665	1.7741172	0.1098217	0.38617	-4.980972
NBPF3	-0.167175	7.9020689	-1.774064	0.1098309	0.38617	-4.981047
RGS10	-0.148481	9.6833014	-1.772926	0.1100282	0.38673	-4.982652
CASP6	-0.135189	7.2189633	-1.77284	0.1100431	0.38673	-4.982774
SLC24A3	-0.131816	6.8043379	-1.772352	0.1101279	0.38693	-4.983463
SNORA80A	0.1797715	7.9818135	1.772081	0.110175	0.38693	-4.983844
TNIP2	0.180482	8.2301252	1.7720556	0.1101794	0.38693	-4.98388
PEMT	0.1565342	8.8146935	1.7715703	0.1102637	0.38713	-4.984565
PDS5A	0.26747	9.0536886	1.7713398	0.1103038	0.38718	-4.98489
GLIS3	-0.120427	6.9031709	-1.771082	0.1103487	0.38724	-4.985254
ERBIN	-0.123433	7.0169003	-1.76997	0.1105424	0.38783	-4.986821
CCZ1	-0.156178	8.5521473	-1.769635	0.1106008	0.38794	-4.987294
CPTP	0.1431299	7.7718071	1.7693429	0.1106517	0.38803	-4.987705
EXPH5	-0.130447	6.7828742	-1.768365	0.1108225	0.38848	-4.989083
PSMC3	0.1371974	10.609602	1.7682682	0.1108394	0.38848	-4.989219
INHBE	-0.14433	7.7490136	-1.768026	0.1108817	0.38848	-4.989561

TGFBR3	-0.137757	7.0495241	-1.767996	0.110887	0.38848	-4.989603
TRNT1	-0.157961	7.6153976	-1.767399	0.1109913	0.38849	-4.990444
TIPRL	-0.146728	8.7192779	-1.767373	0.1109959	0.38849	-4.99048
BCL2L2	-0.143177	8.1665381	-1.767059	0.1110509	0.38849	-4.990923
NPTN	-0.211951	9.7352538	-1.766859	0.1110858	0.38849	-4.991204
MESP1	-0.169648	7.0574502	-1.766654	0.1111218	0.38849	-4.991493
CD200R1L	-0.170974	6.8400104	-1.766614	0.1111287	0.38849	-4.991549
TRIB1	0.2279179	9.7432931	1.7664495	0.1111576	0.38849	-4.991781
PPA2	-0.225366	10.17073	-1.766434	0.1111603	0.38849	-4.991803
GFOD2	-0.137764	8.5886397	-1.766252	0.1111922	0.38849	-4.992059
RAD21L1	-0.1139	7.022517	-1.766235	0.1111952	0.38849	-4.992083
HNRNPR	0.1707966	10.306529	1.7661892	0.1112032	0.38849	-4.992148
SLC25A36	0.1940523	8.3993877	1.7661551	0.1112092	0.38849	-4.992196
ING4	-0.15172	7.2386394	-1.765825	0.111267	0.3886	-4.99266
SLC38A6	-0.206077	7.8139895	-1.765474	0.1113286	0.38872	-4.993155
CCDC59	-0.178324	10.794519	-1.76525	0.111368	0.38876	-4.993471
DROSHA	0.1352914	8.0205361	1.7649366	0.111423	0.38886	-4.993911
AP3D1	0.1998921	8.2221746	1.7647604	0.1114539	0.38888	-4.994159
BEND3	0.1183286	7.4243052	1.763977	0.1115916	0.38926	-4.995262
CAPN6	-0.115186	7.0163776	-1.763754	0.1116308	0.38931	-4.995576
FADS6	0.1177452	7.1168688	1.7631948	0.1117292	0.38956	-4.996363
NOMO2	0.1266851	9.4498361	1.7627419	0.111809	0.38968	-4.997
MKS1	0.1287247	6.9087076	1.7626976	0.1118167	0.38968	-4.997062
RCBTB2	-0.142459	7.1805921	-1.762191	0.111906	0.38989	-4.997775
UBL3	0.1512877	8.4727662	1.7616593	0.1119998	0.39013	-4.998523
UGDH	-0.292705	9.1506151	-1.761408	0.1120442	0.39015	-4.998877
UQCC2	0.1825214	10.817515	1.7612046	0.1120801	0.39015	-4.999162
MAG	-0.137958	7.0021739	-1.761172	0.1120858	0.39015	-4.999208
POLR1E	0.1352131	10.231465	1.7609378	0.1121272	0.39015	-4.999537
FAM81A	-0.157914	8.1535484	-1.760861	0.1121407	0.39015	-4.999645
NUDT9P1	0.1552634	7.0403449	1.7605032	0.1122039	0.39028	-5.000149
RRBP1	0.1742905	8.3187665	1.7599228	0.1123066	0.39048	-5.000965
LMAN2L	0.1233074	8.750213	1.7598393	0.1123213	0.39048	-5.001082
TOP1P1	-0.155257	7.2701512	-1.75972	0.1123425	0.39048	-5.00125
CYTH1	0.1720914	9.5268155	1.7593979	0.1123994	0.39052	-5.001703
STAT1	0.1236573	8.1933743	1.7592483	0.1124259	0.39052	-5.001913
CDK4	0.1504665	11.596181	1.7592072	0.1124332	0.39052	-5.00197
CPS1	-0.115045	6.8738737	-1.758085	0.112632	0.39103	-5.003547
PHF12	0.1230236	7.4195685	1.7579713	0.1126522	0.39103	-5.003707
RBM38	0.1946898	8.5930636	1.7579196	0.1126614	0.39103	-5.00378
PACRG	0.1578844	6.8506257	1.7576412	0.1127108	0.39106	-5.004171
TRIM32	0.1779999	8.644006	1.7573569	0.1127613	0.39106	-5.004571
NDN	0.1119198	6.8073726	1.757223	0.112785	0.39106	-5.004759

GGACT	-0.136623	6.8193649	-1.757188	0.1127913	0.39106	-5.004808
LINC01252	0.1182531	6.9608821	1.757114	0.1128044	0.39106	-5.004912
NUDT15	-0.185774	8.3542865	-1.756749	0.1128692	0.39118	-5.005424
SERTAD1	0.1795698	8.0410877	1.75641	0.1129295	0.39118	-5.005901
ITGA2	0.1391179	6.9815828	1.7560707	0.1129898	0.39118	-5.006377
KLF13	0.205447	9.8983739	1.755932	0.1130145	0.39118	-5.006572
M6PR	0.211102	10.468228	1.7558987	0.1130204	0.39118	-5.006619
ASB1	-0.204319	8.6582705	-1.755598	0.113074	0.39118	-5.007041
EPS15	-0.182544	9.1367495	-1.755473	0.1130962	0.39118	-5.007216
PDGFD	-0.148547	7.8115346	-1.755461	0.1130983	0.39118	-5.007233
ZMAT2	0.1671341	9.2861018	1.7553939	0.1131103	0.39118	-5.007328
YOD1	0.2283807	8.3542311	1.7553884	0.1131112	0.39118	-5.007335
ACLY	0.1280049	11.121425	1.7552663	0.113133	0.39118	-5.007507
GPR65	-0.17779	7.8121765	-1.754916	0.1131953	0.3913	-5.007998
ALG11	0.1358559	7.3207361	1.7542758	0.1133095	0.39161	-5.008897
SIPA1L3	0.1713454	7.6594746	1.7539985	0.113359	0.39161	-5.009287
UEVLD	0.1081271	6.8755678	1.7539617	0.1133655	0.39161	-5.009338
LENG1	0.194371	7.2355064	1.75346	0.1134551	0.39173	-5.010042
LMO2	0.1456642	8.3136652	1.7533928	0.1134671	0.39173	-5.010137
RXRB	-0.20665	9.4513517	-1.753331	0.1134782	0.39173	-5.010224
MTMR14	0.1421521	8.7603579	1.753039	0.1135303	0.39176	-5.010633
PGAM4	0.1390512	10.457203	1.7528777	0.1135591	0.39176	-5.01086
YKT6	0.122586	7.0888736	1.7528255	0.1135684	0.39176	-5.010933
NDUFB8	-0.157565	12.875623	-1.752169	0.1136858	0.39207	-5.011854
EMC3	0.1562568	10.51605	1.7512609	0.1138484	0.39244	-5.013128
RWDD4	-0.223941	9.8313054	-1.751172	0.1138642	0.39244	-5.013252
TMEM241	0.3024133	8.3698714	1.7510537	0.1138855	0.39244	-5.013418
PCYT2	-0.150627	8.2061311	-1.750971	0.1139003	0.39244	-5.013534
KIAA2026	0.1184075	7.0089266	1.7506822	0.1139521	0.39245	-5.013939
LOC286437	0.1371055	6.9822606	1.7506594	0.1139561	0.39245	-5.013971
MAP3K11	0.1637622	7.7848663	1.7503086	0.114019	0.39257	-5.014463
FAM89B	0.1719789	8.0494957	1.7496194	0.1141427	0.3929	-5.015429
ARMC8	-0.125889	7.2920781	-1.749131	0.1142305	0.39311	-5.016115
DDX17	-0.241947	9.1957198	-1.748258	0.1143874	0.39342	-5.017337
KDM4B	0.198722	7.3140835	1.7481819	0.1144011	0.39342	-5.017444
PGGT1B	-0.161061	7.0718624	-1.74818	0.1144015	0.39342	-5.017448
CCT4	-0.156432	9.0358763	-1.747751	0.1144787	0.3936	-5.018049
YDJC	0.1193948	8.2200322	1.7474015	0.1145416	0.39372	-5.018538
TIMM23	-0.108909	10.826504	-1.747217	0.1145749	0.39374	-5.018797
BRI3	0.1727746	8.9392275	1.746464	0.1147106	0.39405	-5.019851
SLC1A3	-0.170948	7.0642638	-1.746311	0.1147382	0.39405	-5.020066
PTDSS1	0.2115573	12.07273	1.7462654	0.1147464	0.39405	-5.02013
ZNF718	-0.132569	6.9271135	-1.745875	0.1148168	0.39415	-5.020676

CDON	0.1295114	6.9198728	1.7458074	0.114829	0.39415	-5.020771
MED27	0.1697931	8.7502908	1.7454396	0.1148955	0.39429	-5.021286
SNX29	0.1434064	7.6155426	1.7448191	0.1150076	0.3945	-5.022155
SGTA	0.2167092	8.0909018	1.7447985	0.1150113	0.3945	-5.022184
EBF1	0.2165325	9.2129525	1.7435253	0.1152417	0.3952	-5.023966
IFNL1	0.1095344	6.7919673	1.7433767	0.1152687	0.3952	-5.024174
CENPJ	-0.143432	7.8121881	-1.743095	0.1153197	0.39528	-5.024568
CENPU	-0.18855	7.7887182	-1.742751	0.1153821	0.3954	-5.02505
RAB42	-0.145948	6.9471258	-1.742524	0.1154232	0.39545	-5.025367
OXSR1	0.1428597	10.279976	1.7418016	0.1155544	0.39572	-5.026378
LY6G5B	-0.129353	6.843314	-1.741673	0.1155777	0.39572	-5.026558
PTPN11	0.2450998	10.590395	1.7416398	0.1155837	0.39572	-5.026604
SHOX2	-0.110137	6.9222464	-1.740735	0.1157482	0.39619	-5.02787
OSTCP1	-0.143015	7.440237	-1.740307	0.1158261	0.39623	-5.028469
DNASE2	-0.146168	8.9293462	-1.740169	0.1158511	0.39623	-5.028661
ZNF91	0.1599759	7.6394797	1.7401019	0.1158634	0.39623	-5.028755
IFNW1	-0.107304	6.904281	-1.739994	0.1158831	0.39623	-5.028906
POU6F2-AS1	0.1350038	6.911917	1.739921	0.1158963	0.39623	-5.029008
IL2RG	0.1637029	7.3878089	1.7394739	0.1159778	0.39639	-5.029633
ZNF292	-0.114525	6.9020699	-1.739369	0.1159969	0.39639	-5.02978
PRPF4	0.1313777	10.624625	1.7392208	0.1160239	0.39639	-5.029987
STK17A	-0.124264	7.054471	-1.73899	0.1160659	0.39644	-5.030309
HOXB5	-0.133715	7.0708051	-1.738586	0.1161396	0.3966	-5.030874
SP4	0.1605786	8.1053793	1.7382732	0.1161967	0.39666	-5.031312
RRAGD	0.1197242	7.3271038	1.7381827	0.1162132	0.39666	-5.031438
CLSTN1	0.186327	8.5724328	1.7379233	0.1162606	0.39673	-5.031801
C9orf66	0.1151647	6.9022464	1.7377197	0.1162978	0.39677	-5.032085
NEURL2	-0.109782	6.8934613	-1.73724	0.1163854	0.39697	-5.032755
C20orf27	-0.194413	10.919936	-1.73695	0.1164385	0.397	-5.033161
SH3YL1	-0.141973	6.9436392	-1.736906	0.1164465	0.397	-5.033222
TFE3	0.1406764	7.4273706	1.7367116	0.1164821	0.397	-5.033494
DNAJB9	-0.142695	8.5545203	-1.736598	0.1165029	0.397	-5.033652
TMC3	0.1474703	6.9064095	1.7362784	0.1165613	0.39711	-5.034099
NFYC-AS1	-0.19706	7.2840544	-1.735822	0.1166449	0.3973	-5.034736
LMO4	0.1402399	10.106465	1.7355725	0.1166906	0.39736	-5.035085
MIR487A	0.1995014	6.8875313	1.7353962	0.1167229	0.39738	-5.035331
TMEM150A	-0.168535	7.6063184	-1.735179	0.1167627	0.39742	-5.035634
WDCP	-0.136219	9.9499638	-1.733961	0.1169863	0.39809	-5.037335
KTN1	-0.151991	8.9211937	-1.733632	0.1170467	0.3982	-5.037794
SLC37A1	0.1094687	7.6738316	1.7330978	0.1171449	0.39845	-5.038539
ELOA3B	-0.15755	7.0369857	-1.732819	0.1171962	0.39847	-5.038929
PDS5B	-0.165063	7.8762419	-1.732755	0.117208	0.39847	-5.039018
ZNF787	-0.169352	9.8664398	-1.732132	0.1173227	0.39875	-5.039888

FAR1	0.2025703	8.9579279	1.7320097	0.1173451	0.39875	-5.040058
MFSD13A	-0.112594	7.8717299	-1.731365	0.1174639	0.39907	-5.040957
DHRSX	0.1192594	7.2785521	1.7309463	0.1175411	0.39911	-5.041541
KLHL4	0.117226	6.8541253	1.7307785	0.1175721	0.39911	-5.041775
ZNHIT1	-0.188159	10.587797	-1.730611	0.117603	0.39911	-5.042009
AGPAT3	0.1200622	7.2028089	1.7303983	0.1176423	0.39911	-5.042306
PABPN1	0.1653191	10.354981	1.7303584	0.1176496	0.39911	-5.042361
PUM1	0.1978303	10.229005	1.7302667	0.1176666	0.39911	-5.042489
EIF4G2	0.1409383	11.501428	1.7302562	0.1176685	0.39911	-5.042504
TMEM120A	0.1535334	8.946851	1.7298986	0.1177345	0.39924	-5.043002
STAM2	-0.194776	7.7361128	-1.728957	0.1179086	0.39974	-5.044315
SCAND1	0.188823	8.6031083	1.728737	0.1179493	0.39978	-5.044622
ZNF512B	0.1381411	6.883537	1.7285042	0.1179924	0.39979	-5.044946
RIOX2	-0.116364	7.3682575	-1.728434	0.1180054	0.39979	-5.045044
HLA-DMA	0.1386066	12.170744	1.7280089	0.1180841	0.39989	-5.045636
GIGYF1	0.1560238	6.9755447	1.7279723	0.1180909	0.39989	-5.045688
TCN2	0.1627732	7.0760573	1.7276491	0.1181508	0.4	-5.046138
TUBGCP6	-0.159684	7.412722	-1.727387	0.1181993	0.40007	-5.046503
ANXA3	0.1557348	6.7711569	1.7267456	0.1183183	0.40029	-5.047397
NIPSNAP2	-0.188315	9.0132011	-1.72671	0.118325	0.40029	-5.047447
MCMDC2	0.3680654	10.739062	1.7266054	0.1183444	0.40029	-5.047592
SCART1	0.1940553	6.9427347	1.7258469	0.1184853	0.40067	-5.048649
A4GALT	-0.156975	9.0363193	-1.725143	0.1186161	0.40102	-5.049629
STXBP2	0.2257009	8.1726377	1.7246561	0.1187067	0.40111	-5.050307
MCUB	-0.216501	11.597956	-1.724604	0.1187164	0.40111	-5.050379
ZNF260	0.1555335	7.4121114	1.7245632	0.118724	0.40111	-5.050436
CACNG4	0.1574276	6.9810823	1.7240091	0.1188272	0.40128	-5.051207
SCO2	0.124011	10.097632	1.7239293	0.1188421	0.40128	-5.051319
TMEM268	0.1142876	8.5559357	1.7238434	0.1188581	0.40128	-5.051438
C16orf86	0.1223693	6.9153525	1.7236806	0.1188884	0.40129	-5.051665
HIST1H4E	0.2349573	7.6443394	1.7233319	0.1189534	0.4013	-5.05215
GM2A	0.1312186	7.5738906	1.723329	0.118954	0.4013	-5.052154
PSMG3-AS1	0.1343597	7.0586088	1.7232147	0.1189753	0.4013	-5.052313
IFI35	0.2778321	7.9393561	1.7222236	0.1191603	0.40184	-5.053692
ZNF326	0.139398	7.3327085	1.7218841	0.1192237	0.40196	-5.054165
CDC42SE2	-0.238248	8.733274	-1.721719	0.1192546	0.40197	-5.054395
CRIPAK	0.2128089	7.463958	1.7215403	0.119288	0.40199	-5.054643
CEP57	-0.183897	7.5720435	-1.720536	0.119476	0.40253	-5.05604
PHC1	0.1253733	7.9464491	1.7199836	0.1195794	0.40268	-5.056808
NRN1	-0.111592	6.9100327	-1.71988	0.1195988	0.40268	-5.056952
DYNC1I2	0.1129412	9.6772408	1.7198593	0.1196027	0.40268	-5.056981
ZNF358	-0.107565	6.8847768	-1.719518	0.1196667	0.40273	-5.057456
COX19	-0.183446	8.3129166	-1.719337	0.1197005	0.40273	-5.057706

FBXO10	0.1451686	7.2416468	1.7193271	0.1197025	0.40273	-5.057721
C9orf78	-0.171843	11.027621	-1.718744	0.119812	0.40297	-5.058532
CCDC86	0.4510467	10.624862	1.7186546	0.1198287	0.40297	-5.058655
MLANA	0.1270239	6.8044964	1.718344	0.119887	0.40303	-5.059087
AJUBA	-0.114675	6.894113	-1.718262	0.1199025	0.40303	-5.059202
SHISA5	0.1823715	9.946921	1.7176537	0.1200167	0.40327	-5.060046
BTBD6	0.2614414	9.9392113	1.7175803	0.1200305	0.40327	-5.060148
PIGX	0.1251288	8.0735025	1.7174472	0.1200556	0.40327	-5.060333
CNPY3	0.192718	8.3719549	1.7170422	0.1201318	0.40332	-5.060896
IRF1	-0.164181	10.784589	-1.716629	0.1202095	0.40332	-5.06147
CDK11B	0.2004654	8.2000537	1.716602	0.1202146	0.40332	-5.061508
BCAS4	-0.134369	10.437689	-1.716595	0.120216	0.40332	-5.061517
DNAJC25	-0.178544	8.1833633	-1.716391	0.1202543	0.40332	-5.0618
SNORA59A	0.1240575	7.2179131	1.7161963	0.1202911	0.40332	-5.062071
BLZF1	0.2018786	9.3612055	1.7159938	0.1203292	0.40332	-5.062352
OASL	-0.11684	6.8373921	-1.715994	0.1203292	0.40332	-5.062353
TSN	-0.262058	7.1677273	-1.715879	0.1203509	0.40332	-5.062513
PLPP2	0.1161839	6.9389031	1.7158499	0.1203563	0.40332	-5.062552
ATP13A2	0.1791528	7.3410185	1.7157119	0.1203824	0.40332	-5.062744
KMT2A	0.1433902	7.3504618	1.7156097	0.1204016	0.40332	-5.062886
CCNJL	0.1175353	6.9037257	1.7147112	0.1205712	0.40379	-5.064133
AFAP1L2	-0.137138	7.0622398	-1.714559	0.1205999	0.4038	-5.064345
KLC3	-0.130834	6.9212108	-1.714332	0.1206428	0.40385	-5.06466
IK	0.1860569	9.4565598	1.7140977	0.1206871	0.4039	-5.064985
SERPINE1	-0.165652	7.0177544	-1.712868	0.1209196	0.40454	-5.066691
UGGT1	0.1764314	7.7328827	1.7126056	0.1209694	0.40454	-5.067056
COL5A1	-0.133804	7.0413086	-1.712487	0.1209919	0.40454	-5.067221
UTP11	0.1746223	9.9860701	1.7124392	0.1210009	0.40454	-5.067287
TM2D3	-0.125242	8.1820969	-1.712261	0.1210346	0.40454	-5.067533
NFYB	0.124581	7.3974258	1.7121011	0.1210649	0.40454	-5.067756
SARAF	-0.175848	10.790876	-1.712063	0.1210723	0.40454	-5.067809
TOMM20	0.1320755	11.743971	1.7111675	0.121242	0.40502	-5.069051
NDEL1	-0.136499	8.5157704	-1.710349	0.1213975	0.40537	-5.070186
RALGAPB	0.141839	7.7120674	1.7103236	0.1214023	0.40537	-5.070221
PLCD1	-0.118839	6.9430562	-1.709997	0.1214644	0.40548	-5.070674
PRDM9	0.1156402	7.0501575	1.7098543	0.1214915	0.40548	-5.070872
WIPF2	0.1156272	6.9796804	1.7096917	0.1215224	0.40549	-5.071097
FTSJ3	0.1415569	8.4274814	1.7095314	0.1215529	0.4055	-5.07132
DYNLRB1	0.1483076	9.7525122	1.7087428	0.121703	0.40589	-5.072413
SNORD57	-0.187068	7.7801886	-1.708626	0.1217252	0.40589	-5.072575
MAPKBP1	-0.124379	6.9599173	-1.708086	0.1218281	0.40603	-5.073323
ZNF215	-0.150185	7.6227821	-1.708074	0.1218304	0.40603	-5.07334
CCDC14	-0.220759	9.1329447	-1.707867	0.1218698	0.40603	-5.073626

CDC16	-0.158487	10.582574	-1.707824	0.1218781	0.40603	-5.073686
GLMN	-0.152904	9.5191714	-1.707459	0.1219476	0.40617	-5.074191
TMA16	-0.176718	7.2347368	-1.706748	0.1220834	0.40645	-5.075176
ZNF165	-0.132713	7.6622424	-1.706718	0.1220892	0.40645	-5.075218
BCL2L13	0.1449145	10.518443	1.7062578	0.1221771	0.40655	-5.075856
LPAR3	-0.144363	7.0064353	-1.70622	0.1221844	0.40655	-5.075909
TRIT1	-0.228907	10.181681	-1.70613	0.1222016	0.40655	-5.076033
OR1J2	0.1219863	6.8918042	1.7057008	0.1222836	0.40667	-5.076627
HAPLN3	-0.111494	6.8254697	-1.705432	0.122335	0.40667	-5.076999
CTNNBL1	0.1905894	9.96829	1.7053889	0.1223433	0.40667	-5.077059
TAF1B	-0.125846	8.4202048	-1.705357	0.1223495	0.40667	-5.077104
NCEH1	0.1129129	7.8606845	1.7046493	0.1224849	0.40703	-5.078083
FAM53C	-0.167993	10.312543	-1.70355	0.1226955	0.40746	-5.079604
PPIF	0.1342062	8.0825742	1.7035358	0.1226983	0.40746	-5.079624
DHX40	-0.114159	8.4333233	-1.70353	0.1226995	0.40746	-5.079633
HCFC1	0.1269916	11.282926	1.7032273	0.1227576	0.40756	-5.080051
TMEM203	0.19708	10.074451	1.7029097	0.1228185	0.40767	-5.08049
COG4	0.1218109	7.8793726	1.7026967	0.1228594	0.40768	-5.080785
SHMT2	0.1589043	12.019456	1.702605	0.1228771	0.40768	-5.080912
ADH6	-0.11836	6.9170147	-1.702379	0.1229206	0.40773	-5.081225
RBM14	0.1547617	11.159003	1.7022332	0.1229485	0.40773	-5.081426
PARP11	0.1532033	7.7757343	1.7017094	0.1230492	0.4079	-5.082151
RPL32	-0.110471	9.8259236	-1.70165	0.1230607	0.4079	-5.082233
OXTR	0.124225	7.6418258	1.7014989	0.1230897	0.4079	-5.082442
RPP40	-0.156109	11.325414	-1.701338	0.1231208	0.4079	-5.082665
LIN7A	0.1053083	6.7554498	1.7012448	0.1231386	0.4079	-5.082793
IFT43	-0.131063	8.4647922	-1.700945	0.1231964	0.408	-5.083208
THAP6	-0.117356	7.5591551	-1.700678	0.1232477	0.40808	-5.083577
ATG4D	0.106747	7.4915548	1.7004296	0.1232957	0.40814	-5.083921
PRICKLE1	0.1269145	7.2207685	1.7002217	0.1233357	0.40818	-5.084208
ZNF239	0.1205993	7.0741082	1.700086	0.1233619	0.40818	-5.084396
GAGE5	0.1295778	6.9059494	1.6992076	0.1235314	0.40859	-5.08561
MZT2A	-0.142379	7.5927971	-1.699137	0.123545	0.40859	-5.085708
DDT	0.138949	12.256462	1.6989966	0.1235721	0.40859	-5.085902
MAGT1	0.2639486	9.59215	1.6981886	0.1237283	0.40885	-5.087018
L3MBTL4	0.1450657	7.1843314	1.6981702	0.1237318	0.40885	-5.087044
ALKBH1	0.1307992	8.1274165	1.6980382	0.1237573	0.40885	-5.087226
ZIC5	-0.115629	6.888152	-1.698016	0.1237616	0.40885	-5.087256
WWC1	0.116302	7.9110266	1.6975663	0.1238486	0.4089	-5.087878
SRP54	0.1315946	10.746873	1.6975105	0.1238594	0.4089	-5.087955
ACBD3	0.1950043	9.3714143	1.6975075	0.12386	0.4089	-5.087959
CXorf40B	0.1100638	8.0507852	1.6968606	0.1239853	0.40907	-5.088853
ATOX1	-0.176231	11.152371	-1.696781	0.1240007	0.40907	-5.088963

TRMT112	-0.180733	12.295605	-1.696674	0.1240214	0.40907	-5.08911
MRPL39	-0.14867	9.02765	-1.696659	0.1240244	0.40907	-5.089131
FN3KRP	-0.179769	9.4706745	-1.696158	0.1241214	0.4093	-5.089823
SNORD99	-0.243565	8.0185305	-1.695799	0.1241911	0.40939	-5.090319
PIGQ	-0.252341	8.3625287	-1.695729	0.1242047	0.40939	-5.090416
TBC1D14	-0.149594	9.4366101	-1.695442	0.1242603	0.40948	-5.090811
UBXN6	0.152015	8.4952966	1.6951818	0.1243109	0.40955	-5.091171
TYW1	0.1030231	8.2365166	1.6949775	0.1243505	0.40956	-5.091453
C9orf85	-0.157755	7.6243042	-1.694887	0.124368	0.40956	-5.091577
CCDC115	-0.128521	9.4349136	-1.694484	0.1244464	0.40972	-5.092134
IPO13	0.1779197	7.7959108	1.6940566	0.1245295	0.40981	-5.092724
LDLRAD4	0.1048762	6.7158409	1.6940555	0.1245297	0.40981	-5.092725
MMS19	0.1675593	10.382125	1.692891	0.1247564	0.41046	-5.094332
AKIP1	-0.122345	8.0541239	-1.692445	0.1248433	0.4106	-5.094947
SHISA2	-0.135558	6.8952498	-1.692393	0.1248535	0.4106	-5.095019
SLC5A12	-0.11989	6.9889092	-1.692164	0.1248981	0.41065	-5.095335
CLTB	-0.106798	8.6402862	-1.691856	0.1249581	0.41068	-5.095759
RSC1A1	0.1097262	7.9739868	1.6916992	0.1249888	0.41068	-5.095976
AIP	0.1980909	9.8574698	1.691683	0.1249919	0.41068	-5.095999
PFAS	0.155059	10.735822	1.6914714	0.1250332	0.41073	-5.09629
INPP5E	0.1623571	8.0112421	1.6906514	0.1251934	0.41116	-5.097421
CCDC13	0.1214349	6.8798985	1.6903585	0.1252507	0.41126	-5.097825
WDFY2	-0.111891	7.617359	-1.689886	0.125343	0.41144	-5.098476
TCF20	0.1383545	7.9020131	1.6897822	0.1253634	0.41144	-5.098619
ZNF654	0.1636634	7.2438393	1.6893226	0.1254533	0.4116	-5.099253
LOC1001313	-0.136997	6.8680937	-1.689184	0.1254806	0.4116	-5.099444
ABCA7	-0.1443	7.4117527	-1.688902	0.1255358	0.4116	-5.099833
ZFAND2B	0.1231692	8.8716333	1.6887767	0.1255603	0.4116	-5.100005
BUD31	0.1687945	11.130929	1.6886349	0.1255881	0.4116	-5.1002
LINC00200	0.1223648	7.3026979	1.6884869	0.1256171	0.4116	-5.100404
NCF1	0.2646638	10.500484	1.6883574	0.1256425	0.4116	-5.100583
WDR81	0.2205558	7.7207949	1.6883073	0.1256523	0.4116	-5.100652
GDPD4	0.146881	7.0474681	1.6881846	0.1256764	0.4116	-5.100821
CDCA7L	0.1655135	8.7842966	1.6879117	0.1257299	0.4116	-5.101197
ZSCAN21	-0.110335	7.9275121	-1.687866	0.1257388	0.4116	-5.101259
REC8	0.2080597	9.3540683	1.6875955	0.1257919	0.4116	-5.101632
OAS2	-0.104959	7.9877489	-1.687557	0.1257995	0.4116	-5.101685
WDR41	-0.231996	8.8280404	-1.687514	0.125808	0.4116	-5.101744
SNORA38B	-0.210671	7.1558878	-1.687322	0.1258456	0.41164	-5.102009
PAK1	0.1568864	8.5815194	1.6870926	0.1258907	0.41166	-5.102325
U2AF2	0.1844564	9.6744595	1.6867967	0.1259488	0.41166	-5.102732
ATAD3C	0.1183334	6.8438277	1.6867118	0.1259655	0.41166	-5.102849
BIRC2	-0.128985	8.3879482	-1.686601	0.1259873	0.41166	-5.103002

RASL10A	-0.158427	7.0924429	-1.686573	0.1259929	0.41166	-5.103041
CLSPN	-0.147781	6.9940547	-1.686288	0.1260488	0.41175	-5.103433
DNALI1	0.1076274	6.8797715	1.6860777	0.1260902	0.41178	-5.103722
ELAC2	0.1855176	8.9099668	1.6856997	0.1261646	0.41178	-5.104243
DPM3	0.2169091	8.7227223	1.6856665	0.1261711	0.41178	-5.104288
NOP16	-0.135251	10.56093	-1.685661	0.1261722	0.41178	-5.104296
TEKT1	0.1108542	6.9870222	1.6853425	0.1262349	0.41189	-5.104734
CCDC91	-0.113696	7.4801957	-1.685149	0.126273	0.41193	-5.105001
RPL41	-0.16607	11.749741	-1.684325	0.1264354	0.41236	-5.106135
LOC1005075	-0.144434	7.5963958	-1.683583	0.1265818	0.41273	-5.107155
RPL29	-0.205637	11.596033	-1.683402	0.1266175	0.41273	-5.107404
R3HCC1L	0.209193	7.8180987	1.6831428	0.1266687	0.41273	-5.107761
MIR142	-0.150554	7.0615973	-1.683052	0.1266866	0.41273	-5.107886
MC1R	-0.15679	7.089706	-1.682927	0.1267113	0.41273	-5.108058
PPP1R15B	-0.111691	7.2164936	-1.682899	0.1267169	0.41273	-5.108097
POP5	-0.138071	8.406467	-1.682574	0.1267812	0.41285	-5.108544
NINJ1	0.1403859	8.1853091	1.6820748	0.1268799	0.41306	-5.10923
PSEN2	-0.110058	7.133064	-1.681783	0.1269376	0.41306	-5.109631
SNX21	-0.115986	6.7748614	-1.681693	0.1269554	0.41306	-5.109755
NOLC1	0.1220549	9.1028699	1.6816628	0.1269614	0.41306	-5.109797
GMPS	0.1207197	10.719977	1.6812705	0.1270391	0.41322	-5.110336
EIF4H	0.1701966	10.602777	1.681137	0.1270655	0.41322	-5.11052
SUOX	-0.136625	7.1083616	-1.680659	0.1271603	0.41324	-5.111177
CDCA7	-0.121372	9.2820251	-1.680562	0.1271795	0.41324	-5.11131
TERF2IP	0.1394828	9.9978295	1.6804873	0.1271943	0.41324	-5.111413
LRRTM2	-0.113035	6.8682667	-1.680467	0.1271983	0.41324	-5.11144
CLEC4D	0.1621408	7.0424689	1.6803898	0.1272136	0.41324	-5.111547
IQGAP3	0.1278094	7.2361459	1.6796458	0.1273612	0.41363	-5.112569
STPG3	0.1720853	6.8425898	1.6793754	0.1274149	0.41371	-5.112941
ZC3H7A	-0.134144	8.2144347	-1.679117	0.1274663	0.41371	-5.113296
DEFA4	-0.11654	6.8490026	-1.67909	0.1274717	0.41371	-5.113333
HINFP	-0.127511	8.1087874	-1.678951	0.1274992	0.41371	-5.113524
LIPT1	-0.130519	7.6802372	-1.678431	0.1276025	0.41384	-5.114238
MPV17	0.2097236	9.6506366	1.67827	0.1276346	0.41384	-5.114459
KCTD1	0.1106068	6.9063035	1.6782564	0.1276373	0.41384	-5.114478
XPO7	-0.127836	8.5956787	-1.678165	0.1276555	0.41384	-5.114603
MIR1253	-0.163034	7.0191902	-1.677902	0.1277079	0.41384	-5.114965
GSTO1	0.1425537	11.289318	1.6778846	0.1277113	0.41384	-5.114989
LOC1001307	-0.15499	6.9541803	-1.677349	0.127818	0.4141	-5.115724
CD180	0.167921	7.1008278	1.6766381	0.1279596	0.41437	-5.1167
ZDHHC4	0.1413614	8.9020175	1.676634	0.1279604	0.41437	-5.116706
MINDY3	-0.280916	8.7061304	-1.676311	0.1280247	0.41448	-5.117149
LOC1002887	0.118096	7.0290446	1.6761811	0.1280508	0.41448	-5.117328

LRIG1	0.1380576	9.4460684	1.675636	0.1281595	0.41461	-5.118076
TCF7	0.1114618	6.8204964	1.6754459	0.1281975	0.41461	-5.118337
SNORD14D	-0.173075	7.5336003	-1.675423	0.1282021	0.41461	-5.118368
FAM214B	0.1172443	7.0030252	1.6752238	0.1282419	0.41461	-5.118641
ABHD10	-0.125241	6.8575888	-1.675221	0.1282423	0.41461	-5.118645
NDUFS4	-0.163807	10.886813	-1.675113	0.128264	0.41461	-5.118793
GEMIN5	0.107137	8.5367618	1.67499	0.1282886	0.41461	-5.118962
TTC38	0.1118116	7.0247992	1.6747442	0.1283377	0.41468	-5.1193
AKAP11	0.1411034	7.943529	1.6745902	0.1283685	0.41468	-5.119511
MICU3	0.1189417	6.8835277	1.6743927	0.128408	0.41472	-5.119782
ATP6V0B	0.1201508	10.855807	1.6741866	0.1284492	0.41476	-5.120065
SMARCD1	0.1489558	9.0341719	1.673613	0.128564	0.41504	-5.120851
CARS2	-0.228497	8.7011365	-1.672842	0.1287184	0.41543	-5.121909
MIRLET7D	-0.183814	7.0091354	-1.672661	0.1287548	0.41543	-5.122157
YTHDF1	0.1861815	9.7214746	1.6725793	0.1287711	0.41543	-5.122269
OR7G2	0.1383768	6.992367	1.6724301	0.1288011	0.41544	-5.122474
MRPS17	-0.137653	10.21798	-1.672067	0.1288739	0.41552	-5.122971
CSHL1	-0.124779	7.2066105	-1.671879	0.1289117	0.41552	-5.123229
DEFB125	-0.147346	6.9179959	-1.67181	0.1289256	0.41552	-5.123324
GRIPAP1	0.1230615	7.9010539	1.6717288	0.1289418	0.41552	-5.123435
PURA	0.1103811	7.5065125	1.6708549	0.1291173	0.41592	-5.124633
BET1L	0.181497	7.5163236	1.6707789	0.1291326	0.41592	-5.124737
SYDE2	0.142565	6.8855494	1.6706832	0.1291519	0.41592	-5.124868
LINC00852	0.1402414	6.9938254	1.6702919	0.1292306	0.416	-5.125404
NAA10	0.1648224	10.257151	1.6699676	0.1292958	0.416	-5.125849
POFUT1	0.1492961	8.4502034	1.6699326	0.1293029	0.416	-5.125897
RPS2P40	0.1380574	14.521347	1.6698	0.1293295	0.416	-5.126078
PACS2	0.1721094	7.4731083	1.6696841	0.1293529	0.416	-5.126237
ERAP2	0.1654996	9.5109458	1.6694893	0.1293921	0.416	-5.126504
DTD2	-0.118446	8.2824705	-1.669425	0.1294051	0.416	-5.126592
ZNF721	-0.227582	8.5652634	-1.669384	0.1294133	0.416	-5.126648
ZNF341	0.2057014	7.6757974	1.6692981	0.1294306	0.416	-5.126766
ATOH7	-0.111858	6.9386625	-1.669107	0.1294691	0.41603	-5.127028
POLR2F	-0.150989	12.119794	-1.668724	0.1295463	0.41616	-5.127552
GABBR2	0.1414501	6.8250693	1.668546	0.1295822	0.41616	-5.127796
PMPCB	-0.21299	11.283706	-1.668429	0.1296058	0.41616	-5.127956
GNG8	0.1187366	6.8769437	1.6682359	0.1296448	0.41616	-5.128221
LOC1002882	0.1139681	6.9583431	1.6681998	0.1296521	0.41616	-5.12827
ZNF428	-0.139464	11.715397	-1.667822	0.1297282	0.41631	-5.128787
NFATC1	0.104212	7.3302115	1.6671282	0.1298684	0.41667	-5.129737
AK8	0.1158218	7.0606891	1.666991	0.1298962	0.41667	-5.129925
AP5M1	-0.203244	8.5985777	-1.666769	0.129941	0.41669	-5.130229
SNORD59B	-0.123828	7.0317401	-1.666572	0.129981	0.41669	-5.130499

HCN4	0.1149351	6.9682723	1.6665257	0.1299902	0.41669	-5.130562
ZSWIM8	0.2812694	9.1915415	1.6661885	0.1300585	0.41682	-5.131023
REXO1	0.1161954	8.2000098	1.6658322	0.1301306	0.41696	-5.131511
EGFEM1P	0.1758861	7.2397178	1.6647207	0.1303558	0.41759	-5.133032
AP1G1	0.1312577	8.362034	1.6644157	0.1304176	0.4177	-5.133449
MORC2	0.1447269	7.7381337	1.6637985	0.1305429	0.41795	-5.134293
GNG13	0.1506927	6.9774023	1.6634148	0.1306208	0.41795	-5.134818
TOR4A	0.1295782	6.9728147	1.6633998	0.1306239	0.41795	-5.134838
MIR25	-0.136829	6.9168889	-1.663305	0.1306432	0.41795	-5.134968
PPP1CB	0.1131575	8.376409	1.6632918	0.1306458	0.41795	-5.134986
GNG7	0.1713828	9.43323	1.6631809	0.1306683	0.41795	-5.135137
MPDU1	0.1438934	8.4936138	1.6623028	0.1308469	0.41843	-5.136338
PSMB3	0.1555176	12.503232	1.6619804	0.1309125	0.41855	-5.136778
RNF216P1	0.1236462	7.6256433	1.6616668	0.1309763	0.41865	-5.137207
STK11IP	0.1442752	7.8605732	1.6615443	0.1310013	0.41865	-5.137374
ENTPD4	0.1426398	7.4166936	1.6603056	0.1312538	0.41927	-5.139067
NHSL2	-0.113481	6.8185418	-1.660303	0.1312542	0.41927	-5.13907
ABCC9	0.1465427	6.9918511	1.6596191	0.1313939	0.41963	-5.140004
OTUB2	0.1027939	6.9458607	1.6593882	0.1314411	0.41969	-5.14032
CXCL5	-0.170847	6.8566319	-1.659189	0.1314818	0.41971	-5.140592
TMEM67	-0.138897	7.4964234	-1.658779	0.1315655	0.41971	-5.141151
ZNF576	-0.133826	8.490532	-1.658539	0.1316147	0.41971	-5.14148
SCARNA9L	-0.11414	7.0728207	-1.658518	0.131619	0.41971	-5.141508
RFX7	0.142282	8.4847111	1.6585138	0.1316198	0.41971	-5.141514
PRDX6	-0.149014	11.718294	-1.658501	0.1316224	0.41971	-5.141531
ITPKC	0.1463063	6.984543	1.6582201	0.1316799	0.41981	-5.141915
C18orf21	-0.166798	8.855859	-1.658055	0.1317138	0.41982	-5.14214
DOK3	0.1116771	7.1157665	1.6573559	0.1318569	0.42014	-5.143094
PCDHB9	-0.24803	8.3501021	-1.657284	0.1318717	0.42014	-5.143193
GOLGA6B	-0.153567	7.2203831	-1.656964	0.1319371	0.42026	-5.143629
GIMAP4	0.1629987	6.9260923	1.6566413	0.1320034	0.42038	-5.144069
TSPAN5	0.1187631	6.9407954	1.6563016	0.1320731	0.4205	-5.144533
CNFN	-0.14678	7.0462043	-1.656165	0.1321011	0.4205	-5.144719
CHD3	0.1353192	7.1175035	1.655874	0.1321608	0.4206	-5.145116
PRKCE	-0.190212	7.3692163	-1.655625	0.1322119	0.42067	-5.145456
PDE1C	0.1147759	6.8023652	1.6551885	0.1323016	0.42078	-5.146051
TMC4	-0.109069	6.9642501	-1.655186	0.1323022	0.42078	-5.146055
ATP2A3	0.1455744	8.0831651	1.6548631	0.1323685	0.42088	-5.146495
CXCL6	0.1338929	6.8417065	1.6546587	0.1324106	0.42088	-5.146774
PEX6	0.1257105	7.4198605	1.6546068	0.1324212	0.42088	-5.146845
HLX	0.1314578	6.8318812	1.6543413	0.1324759	0.4209	-5.147207
HNRNPA2B1	-0.236335	10.001734	-1.654238	0.132497	0.4209	-5.147347
KIAA1586	-0.111608	7.0406605	-1.653999	0.1325463	0.4209	-5.147673

CDC7	-0.161615	9.1841841	-1.653978	0.1325505	0.4209	-5.147701
SLC7A3	-0.156397	8.1204221	-1.653877	0.1325713	0.4209	-5.147839
PDK1	-0.155272	7.0842637	-1.653691	0.1326097	0.42093	-5.148093
FAM8A1	-0.149946	7.4540793	-1.652814	0.1327905	0.42136	-5.149289
IL2RA	0.1099793	6.9614218	1.6527609	0.1328014	0.42136	-5.149361
GRB2	0.1943136	8.8637118	1.6525617	0.1328425	0.42139	-5.149632
SLC25A3	0.1164987	11.106392	1.6523694	0.1328822	0.42143	-5.149895
CDK2AP1	-0.239837	9.541773	-1.652023	0.1329537	0.42156	-5.150367
WAC	0.1045203	8.9570428	1.6518866	0.1329818	0.42156	-5.150552
LINC00608	-0.161454	7.0400151	-1.651522	0.1330571	0.42171	-5.151049
SNORA5B	0.161329	6.9666775	1.6513549	0.1330916	0.42173	-5.151277
SLC35B4	0.1189871	8.4498976	1.651146	0.1331348	0.42177	-5.151561
UBALD2	0.1189252	8.0821573	1.6506803	0.1332311	0.42185	-5.152195
PPP2R3C	-0.205416	9.4565555	-1.650668	0.1332336	0.42185	-5.152212
SREK1	-0.131198	7.7154928	-1.6506	0.1332477	0.42185	-5.152305
C6orf163	-0.156592	6.9732074	-1.65019	0.1333324	0.42203	-5.152863
PAX8	-0.111559	6.9267314	-1.649822	0.1334087	0.42218	-5.153364
CRYM	0.1188034	7.0279001	1.6495073	0.1334739	0.42222	-5.153793
ACO2	0.1660201	9.4183137	1.649477	0.1334802	0.42222	-5.153834
USP43	0.1380088	6.8800913	1.6493418	0.1335082	0.42222	-5.154018
USP19	0.150117	6.9773132	1.6486918	0.1336429	0.4225	-5.154903
CHMP7	0.1347551	7.0947038	1.6486325	0.1336552	0.4225	-5.154984
NR1H3	-0.210005	8.032711	-1.647231	0.1339463	0.42333	-5.156891
MCCC2	0.128506	8.034381	1.6460707	0.1341875	0.42396	-5.158469
NUMB	0.1561576	9.1297058	1.6459695	0.1342086	0.42396	-5.158606
CIT	-0.104112	6.7305843	-1.645788	0.1342465	0.42396	-5.158854
CCDC87	-0.121564	6.8255399	-1.64571	0.1342626	0.42396	-5.158959
BEND4	0.1117773	7.5281212	1.6454229	0.1343224	0.42406	-5.15935
C14orf132	-0.13846	6.9481247	-1.6444	0.1345358	0.42464	-5.160741
SNX22	0.1449154	8.3602248	1.6442219	0.1345729	0.42467	-5.160982
VAMP3	0.1500007	9.2634982	1.6435245	0.1347185	0.42496	-5.16193
ANO7	0.1101256	6.8511232	1.6434833	0.1347271	0.42496	-5.161986
LINC01184	-0.120109	7.4798645	-1.643179	0.1347908	0.42496	-5.1624
PRPS2	-0.177824	9.8187302	-1.643124	0.1348022	0.42496	-5.162474
KIF2A	0.1207703	9.0904139	1.6429103	0.1348469	0.42496	-5.162765
TBC1D15	-0.137994	7.9652588	-1.642821	0.1348656	0.42496	-5.162886
SNX1	-0.14316	7.3656305	-1.6427	0.1348909	0.42496	-5.16305
DGCR6	-0.14433	8.8727273	-1.642664	0.1348983	0.42496	-5.163099
RIN3	0.1249493	7.020417	1.6423402	0.1349662	0.42508	-5.163539
ACAD10	0.1099586	7.8581864	1.6422117	0.134993	0.42508	-5.163714
POM121L4P	-0.159346	7.0946322	-1.641667	0.1351071	0.42534	-5.164453
SH3RF1	-0.151885	6.9688436	-1.641145	0.1352165	0.42558	-5.165163
INS	-0.12004	6.9642044	-1.641032	0.1352401	0.42558	-5.165315

RPL15P11	-0.114352	13.280592	-1.640326	0.1353883	0.42595	-5.166274
MIR586	0.1781888	8.0485229	1.6398444	0.1354893	0.42618	-5.166928
XPA	0.1143621	7.5357242	1.6395414	0.135553	0.42619	-5.167339
ING5	0.1200631	7.270648	1.6395255	0.1355563	0.42619	-5.167361
LRRC42	-0.138192	9.61571	-1.639408	0.135581	0.42619	-5.16752
ACTL10	0.1267959	6.8335846	1.6390373	0.1356589	0.42626	-5.168023
CBR4	-0.138494	8.6148818	-1.639026	0.1356612	0.42626	-5.168038
MRPL43	-0.115171	8.6686573	-1.638195	0.1358362	0.42672	-5.169166
SNORA67	-0.258983	9.2232048	-1.636787	0.1361328	0.42756	-5.171076
SLC22A18AS	-0.117223	6.8991276	-1.63622	0.1362524	0.4278	-5.171844
SEMA3E	0.2165784	9.0702637	1.6361352	0.1362703	0.4278	-5.171959
SPOCK1	-0.10372	6.8830912	-1.635687	0.1363649	0.42796	-5.172567
SPG20	0.1212958	6.982582	1.6356302	0.1363769	0.42796	-5.172644
DDB2	-0.144006	8.3491791	-1.63533	0.1364404	0.42806	-5.173051
RDH13	0.1449776	8.5804486	1.635118	0.1364851	0.42811	-5.173338
RAB11FIP1	0.1197567	8.5386857	1.6349846	0.1365134	0.42811	-5.173519
SUCO	-0.179556	6.9382385	-1.634816	0.1365491	0.42813	-5.173747
LANCL1	-0.152101	9.6714441	-1.634165	0.1366868	0.42847	-5.17463
NADSYN1	0.1653428	8.4680229	1.6339386	0.1367347	0.42853	-5.174936
MCM9	-0.121049	7.1274094	-1.633439	0.1368405	0.42877	-5.175613
P2RY8	0.2989647	10.255936	1.6332698	0.1368763	0.42879	-5.175842
KPNA3	0.1820603	9.7933852	1.6323558	0.1370702	0.4293	-5.177079
EXT1	0.1320506	7.3628579	1.631995	0.1371468	0.42937	-5.177568
OXLD1	-0.117761	9.0172694	-1.631972	0.1371517	0.42937	-5.177599
TMEM140	-0.107337	7.0983478	-1.63182	0.1371839	0.42938	-5.177805
ARF1	0.1322556	8.9220777	1.6313208	0.13729	0.42962	-5.17848
RAPGEFL1	-0.129359	7.3816122	-1.631076	0.1373421	0.42969	-5.178812
ANKRD37	-0.127858	7.8918655	-1.630505	0.1374635	0.42989	-5.179585
PRDX5	0.1399023	11.778715	1.6304978	0.137465	0.42989	-5.179594
TET2	-0.115478	6.8059949	-1.6299	0.1375922	0.43003	-5.180403
WRN	0.1102216	7.870107	1.6298769	0.1375972	0.43003	-5.180434
AXDND1	0.159036	7.0110345	1.6298708	0.1375985	0.43003	-5.180443
C19orf54	0.1074294	7.9413013	1.6296188	0.1376521	0.43011	-5.180784
KDELR2	0.102794	9.8140702	1.6287618	0.1378348	0.43042	-5.181943
RHBDL1	-0.157346	7.1401685	-1.628708	0.1378464	0.43042	-5.182016
WDFY3	0.1012748	6.8924293	1.6285952	0.1378703	0.43042	-5.182168
FBXW4	0.171124	8.198983	1.6284648	0.1378981	0.43042	-5.182344
GUF1	0.215687	8.8981657	1.628463	0.1378985	0.43042	-5.182347
GPR108	0.1472236	7.928367	1.6275702	0.1380891	0.43077	-5.183554
FAM35A	-0.142871	8.6239149	-1.627471	0.1381104	0.43077	-5.183688
ZNF335	0.1201933	7.1057622	1.6273691	0.1381321	0.43077	-5.183826
RSRC2	-0.174016	8.5494115	-1.627301	0.1381466	0.43077	-5.183918
TMEM31	-0.123799	6.7929302	-1.627246	0.1381585	0.43077	-5.183993

TAPT1	-0.158783	7.9242716	-1.626769	0.1382604	0.43099	-5.184637
TUT1	0.1746383	8.0560332	1.6262694	0.1383673	0.43119	-5.185312
SRFBP1	0.1422647	8.1108239	1.6262027	0.1383816	0.43119	-5.185402
BABAM1	0.1355311	9.5012942	1.6257043	0.1384883	0.43143	-5.186076
TTTY13	-0.108056	6.8130303	-1.625203	0.1385958	0.43167	-5.186753
EEF1AKMT2	0.1040304	7.2742465	1.6249487	0.1386502	0.43175	-5.187096
CBWD3	-0.14316	8.2348827	-1.624553	0.1387351	0.43178	-5.187631
MVK	0.1591949	7.9392036	1.6240591	0.1388411	0.43178	-5.188298
PPIA	-0.153518	8.4490825	-1.624018	0.1388499	0.43178	-5.188353
CDK3	-0.126943	6.9211006	-1.623716	0.1389148	0.43178	-5.188761
FDFT1	-0.131904	11.079973	-1.623691	0.1389201	0.43178	-5.188794
ULK2	0.1442933	6.9602002	1.6234938	0.1389625	0.43178	-5.189061
LOC285422	-0.130482	6.9658429	-1.623428	0.1389766	0.43178	-5.189149
LINC00113	0.112744	6.8642157	1.6233205	0.1389997	0.43178	-5.189295
SPNS2	-0.113535	6.9063699	-1.62329	0.1390062	0.43178	-5.189336
NFX1	-0.10731	8.2624446	-1.623163	0.1390336	0.43178	-5.189508
ADAL	-0.181835	7.5734296	-1.623116	0.1390438	0.43178	-5.189571
GAB1	-0.123676	7.0329712	-1.623091	0.1390491	0.43178	-5.189605
SMAP1	-0.132445	8.4185679	-1.622964	0.1390765	0.43178	-5.189777
ANK3	-0.1283	6.9485744	-1.622917	0.1390866	0.43178	-5.18984
GNAO1	0.1928479	6.9171074	1.6228336	0.1391044	0.43178	-5.189952
ILF3-AS1	-0.111514	8.0045887	-1.622581	0.1391586	0.43179	-5.190293
MOG	-0.10976	6.8205025	-1.622533	0.1391691	0.43179	-5.190358
MIA2	-0.099158	6.9200025	-1.622292	0.1392208	0.43179	-5.190683
PPFIA4	-0.120715	6.7617938	-1.622226	0.1392352	0.43179	-5.190773
SNORD32A	-0.119726	7.8697674	-1.622074	0.1392679	0.43179	-5.190978
EED	-0.1583	7.9197507	-1.621989	0.1392861	0.43179	-5.191092
TAB1	0.1216802	7.491332	1.6217359	0.1393406	0.43187	-5.191434
IL3RA	-0.110987	7.0849463	-1.621493	0.139393	0.43191	-5.191761
NAPEPLD	0.1140757	6.9975258	1.6213945	0.1394142	0.43191	-5.191894
GPCPD1	-0.220897	8.1883326	-1.621006	0.139498	0.43205	-5.192419
IRF3	0.2192401	8.7297616	1.6209133	0.1395179	0.43205	-5.192543
SPC24	0.2021434	9.2915894	1.6205704	0.1395919	0.43219	-5.193006
FAM111A	0.1403788	8.9710307	1.6199435	0.1397272	0.43248	-5.193851
SNX10	-0.253677	8.3157405	-1.619856	0.1397461	0.43248	-5.193969
PDYN	-0.1353	6.8657514	-1.619658	0.1397889	0.43252	-5.194237
PDIA4	-0.157618	8.0862939	-1.619464	0.1398308	0.43256	-5.194498
CCL8	-0.104786	6.8583605	-1.619236	0.1398801	0.43262	-5.194806
ADAM12	0.112762	7.0088479	1.6190265	0.1399253	0.43267	-5.195088
LRRC3	-0.105584	6.8607361	-1.618573	0.1400235	0.43288	-5.1957
ITCH	-0.20494	8.0155917	-1.618378	0.1400656	0.43292	-5.195962
TPR	0.2775387	8.8272541	1.6181043	0.1401248	0.433	-5.196331
AQP3	-0.135206	6.9205778	-1.617983	0.1401511	0.433	-5.196494

TMEM126A	-0.14409	10.362583	-1.617784	0.1401942	0.43304	-5.196762
RASSF4	0.1097407	7.693191	1.6164375	0.1404861	0.43369	-5.198576
RBM5	-0.144006	9.8075362	-1.616435	0.1404866	0.43369	-5.19858
TRAPPC2L	-0.150133	9.8378663	-1.616409	0.1404923	0.43369	-5.198615
PDK3	0.1587262	8.8392155	1.6161707	0.1405439	0.43376	-5.198936
NUTF2	0.2092729	9.581453	1.6156512	0.1406567	0.43401	-5.199635
FCMR	0.1432732	7.3845372	1.6150811	0.1407806	0.4343	-5.200403
NOSIP	0.164431	10.385608	1.6141584	0.1409813	0.43482	-5.201645
LRRC75B	-0.119752	6.6751215	-1.614038	0.1410075	0.43482	-5.201807
SELENON	0.1125685	6.8414071	1.6138223	0.1410545	0.43487	-5.202097
INTS9	0.1592319	9.3509214	1.613503	0.1411241	0.43491	-5.202527
GUSBP11	-0.128599	6.9864422	-1.613487	0.1411276	0.43491	-5.202549
DAPK3	0.1286204	7.1646966	1.6129666	0.141241	0.43517	-5.203249
HNRNPUL2	0.1687383	9.5068612	1.612187	0.141411	0.4356	-5.204297
HIST1H2BF	-0.169006	7.0685934	-1.611779	0.1415002	0.43579	-5.204847
ALPP	0.3110601	10.409147	1.6114288	0.1415766	0.43593	-5.205317
RNF217	-0.122186	6.7091101	-1.610826	0.1417084	0.43624	-5.206128
FBXO3	-0.140817	7.5069422	-1.61021	0.1418431	0.43657	-5.206955
TIMM29	0.1715212	8.318854	1.6098959	0.1419119	0.43669	-5.207378
TYMSOS	-0.173306	8.0812811	-1.609549	0.1419878	0.43683	-5.207844
DCUN1D5	-0.11755	9.8074379	-1.609345	0.1420326	0.43687	-5.208118
SPTLC2	0.102766	7.2750208	1.6091279	0.1420802	0.43689	-5.20841
UBA7	-0.132773	7.7141119	-1.609052	0.1420968	0.43689	-5.208512
SMIM10L2B	-0.14554	7.0783165	-1.608043	0.142318	0.43748	-5.209867
CCDC12	-0.125085	9.8833185	-1.607693	0.1423949	0.43762	-5.210337
SNHG7	-0.112524	9.6872637	-1.607459	0.1424464	0.43769	-5.210652
RHPN1	-0.102544	6.8193157	-1.60706	0.142534	0.43786	-5.211187
IFIT3	0.1169561	7.0610511	1.6061191	0.142741	0.4384	-5.212451
WDR27	-0.138028	7.4733337	-1.605998	0.1427678	0.4384	-5.212614
WSB1	-0.11773	8.3543442	-1.605523	0.1428723	0.43853	-5.213251
ST6GALNAC	0.1331976	8.6297687	1.6053748	0.1429049	0.43853	-5.21345
DBIL5P	0.1322977	7.0911506	1.605347	0.1429111	0.43853	-5.213487
CNOT6	0.2012518	8.3920818	1.6052567	0.142931	0.43853	-5.213608
NLGN4Y	0.1161827	6.7920058	1.6048857	0.1430128	0.43869	-5.214106
NF1	-0.122786	7.0877002	-1.604367	0.1431272	0.43891	-5.214802
MRPL23	0.1653838	11.440865	1.6042701	0.1431485	0.43891	-5.214932
CATSPERG	0.109885	6.7723695	1.6040249	0.1432027	0.43891	-5.215261
KRAS	0.1164626	8.581279	1.603752	0.1432629	0.43891	-5.215627
C11orf63	0.1219228	7.1797313	1.6036075	0.1432948	0.43891	-5.215821
GSK3A	0.1299495	7.1294797	1.603514	0.1433155	0.43891	-5.215946
CGN	0.115941	7.555319	1.6035014	0.1433183	0.43891	-5.215963
CDKN2C	-0.124979	8.0710567	-1.603473	0.1433246	0.43891	-5.216002
MARK3	0.1323807	7.6543981	1.6032006	0.1433847	0.439	-5.216366

CD27-AS1	-0.111798	7.6245908	-1.602277	0.1435891	0.43953	-5.217605
RHOC	0.1214704	7.6580827	1.6015882	0.1437415	0.4399	-5.218528
LUC7L	-0.126494	7.466898	-1.601115	0.1438463	0.44013	-5.219162
STARD3NL	-0.118488	8.8147055	-1.600775	0.1439217	0.44027	-5.219618
DCAF17	-0.130427	7.4026851	-1.600484	0.1439862	0.44035	-5.220008
CACNA1I	0.1407234	6.8900504	1.6003863	0.1440079	0.44035	-5.220139
SETD6	-0.138747	8.5750203	-1.600079	0.1440761	0.44047	-5.22055
TTC14	-0.124304	7.8088564	-1.599662	0.1441686	0.44062	-5.221108
KCNK2	-0.107408	6.7078935	-1.599449	0.144216	0.44062	-5.221394
ZDHHC24	0.1407383	7.5059969	1.5992512	0.1442599	0.44062	-5.221659
ALDH1A3	0.1096289	6.8854159	1.5991562	0.1442811	0.44062	-5.221786
PHYKPL	-0.112531	7.1630852	-1.59913	0.1442868	0.44062	-5.221821
DNASE1L3	-0.160551	7.237063	-1.599042	0.1443064	0.44062	-5.221939
SDHA	0.1555328	9.6466603	1.5988282	0.144354	0.44062	-5.222225
DDIAS	0.1491998	8.5511465	1.5985934	0.1444062	0.44062	-5.22254
POLR3F	-0.202129	8.2771268	-1.59844	0.1444404	0.44062	-5.222746
SNORA70C	-0.13049	7.0667581	-1.598134	0.1445084	0.44062	-5.223155
CDKL3	-0.143509	7.0917789	-1.598115	0.1445127	0.44062	-5.223181
FMNL2	-0.112683	7.225062	-1.59807	0.1445226	0.44062	-5.22324
OR8H1	-0.130491	6.8001318	-1.597883	0.1445642	0.44062	-5.223491
FAM25G	-0.127188	6.8440006	-1.597789	0.1445853	0.44062	-5.223617
GPATCH1	-0.142786	6.9972701	-1.597627	0.1446213	0.44062	-5.223834
TMUB2	-0.129529	7.7087776	-1.597575	0.1446328	0.44062	-5.223903
OR9I1	0.0983196	6.8999356	1.597425	0.1446663	0.44062	-5.224104
KRTAP10-10	-0.110327	6.8123395	-1.597415	0.1446685	0.44062	-5.224117
HSFY1P1	0.1239833	7.2522428	1.5967249	0.1448223	0.4409	-5.225041
CDKN1C	-0.10466	6.7900564	-1.596459	0.1448816	0.4409	-5.225396
HDHD5-AS1	-0.141508	7.035444	-1.59643	0.1448881	0.4409	-5.225435
RANBP3	0.1242982	7.8811167	1.5963564	0.1449045	0.4409	-5.225534
COPE	0.2092064	10.076699	1.5963167	0.1449134	0.4409	-5.225587
SBDS	-0.264686	8.8662766	-1.596098	0.1449621	0.44096	-5.225879
BMP2K	0.0981527	8.3888822	1.5957663	0.1450362	0.44108	-5.226323
NARS	-0.248495	11.384563	-1.595571	0.1450798	0.44108	-5.226584
HDAC3	0.1418742	10.147506	1.5955209	0.145091	0.44108	-5.226651
SHMT1	-0.122491	8.2117315	-1.595362	0.1451266	0.44109	-5.226864
PISD	-0.147168	9.1435877	-1.594178	0.1453911	0.44173	-5.228447
EEF1AKMT1	-0.1572	7.1934339	-1.594029	0.1454245	0.44173	-5.228646
WDR11	-0.131537	7.8936894	-1.593995	0.1454322	0.44173	-5.228692
ARHGAP12	-0.119847	7.415244	-1.593875	0.1454589	0.44173	-5.228852
OR4C12	-0.13052	6.9697237	-1.593631	0.1455137	0.44179	-5.229179
MAGOH	-0.155434	8.9361657	-1.593185	0.1456135	0.44179	-5.229774
TNFSF13B	0.1063717	7.1168642	1.5930141	0.1456519	0.44179	-5.230003
HGS	-0.160017	10.66745	-1.59296	0.1456641	0.44179	-5.230075

SHOC2	0.1712073	9.178903	1.5928834	0.1456812	0.44179	-5.230178
TNK2	0.1396222	7.9859861	1.5928669	0.1456849	0.44179	-5.2302
DPM1	-0.186881	10.672426	-1.59284	0.1456908	0.44179	-5.230235
AGA	-0.140198	8.2365585	-1.59245	0.1457785	0.44197	-5.230757
TNRC18	-0.123204	6.828465	-1.592033	0.145872	0.44216	-5.231314
CA13	-0.126951	7.1572912	-1.591799	0.1459244	0.44223	-5.231626
RPS4Y2	-0.179607	9.6909182	-1.591497	0.1459922	0.44223	-5.232029
SLC12A6	0.1201519	6.9976368	1.5913107	0.1460342	0.44223	-5.232279
LINC00570	-0.147256	6.9300303	-1.591279	0.1460413	0.44223	-5.232321
C4orf3	0.1102675	8.1207941	1.5912594	0.1460457	0.44223	-5.232347
HEXB	0.1791705	9.6744867	1.5910664	0.1460891	0.44227	-5.232605
ZBTB33	0.182924	9.8161233	1.5909063	0.146125	0.44228	-5.232819
ANGPTL8	0.1076656	6.8640704	1.5903278	0.1462551	0.44259	-5.233591
EIF4ENIF1	0.1841682	8.8999643	1.5899689	0.1463359	0.44274	-5.23407
AKT1S1	0.1323743	7.3713078	1.5896005	0.1464188	0.44277	-5.234562
MFAP4	0.1265097	7.3613672	1.5894844	0.146445	0.44277	-5.234717
AP1AR	-0.139504	7.2036439	-1.589392	0.1464658	0.44277	-5.23484
OCLN	-0.126419	6.7923204	-1.589382	0.146468	0.44277	-5.234853
GUSB	0.1666864	9.5073618	1.5889991	0.1465543	0.44294	-5.235365
NPEPL1	-0.199961	7.3949952	-1.588837	0.1465909	0.44296	-5.235581
EEFSEC	0.1074018	6.9588746	1.5883007	0.1467118	0.44323	-5.236296
RPL32P18	-0.131826	12.806419	-1.58741	0.146913	0.44375	-5.237485
TMPRSS13	0.1435985	6.9883898	1.5871917	0.1469622	0.44381	-5.237776
HPCAL1	-0.111454	7.7845238	-1.586543	0.1471087	0.44416	-5.23864
MCRIP2	0.2199506	9.7572246	1.5862359	0.1471783	0.44427	-5.23905
PSG7	0.0998726	6.7912865	1.5859375	0.1472458	0.44439	-5.239448
BLOC1S5	-0.149486	8.9218902	-1.585494	0.1473461	0.4446	-5.240039
OR2T6	0.1045771	6.9583691	1.5852657	0.1473979	0.44466	-5.240344
SNX15	-0.134163	7.2669448	-1.584697	0.1475267	0.44484	-5.241101
APLN	0.1368647	6.9564029	1.5845384	0.1475628	0.44484	-5.241313
DIO1	0.1025763	6.8089289	1.5844857	0.1475747	0.44484	-5.241383
UBA5	-0.115933	8.0718401	-1.584474	0.1475773	0.44484	-5.241398
COCH	-0.166378	7.2119579	-1.584068	0.1476696	0.44499	-5.24194
CNR1	0.2157966	7.059964	1.5839505	0.1476961	0.44499	-5.242096
COL7A1	-0.108372	7.0220522	-1.583721	0.1477482	0.44499	-5.242402
CLCF1	0.1265701	7.6903803	1.5837056	0.1477517	0.44499	-5.242422
PLD1	-0.098027	6.8712633	-1.583338	0.1478351	0.44505	-5.242911
ZBTB39	0.1250001	7.3217778	1.5830979	0.1478898	0.44505	-5.243232
ZYG11B	0.1689329	9.3518096	1.5830965	0.1478901	0.44505	-5.243234
FTO	0.1325203	7.9414974	1.5830848	0.1478927	0.44505	-5.243249
TICRR	0.1225263	7.7184119	1.5827823	0.1479615	0.4451	-5.243652
DEFB123	0.1414425	7.3493632	1.5827228	0.147975	0.4451	-5.243731
CLDN14	-0.118303	8.0043791	-1.58261	0.1480006	0.4451	-5.243881

SEC61A1	-0.143911	11.290182	-1.582393	0.14805	0.44516	-5.24417
RXFP4	-0.161529	6.8992988	-1.582159	0.1481032	0.44522	-5.244482
SCD5	0.1233617	7.046696	1.5819104	0.1481598	0.4453	-5.244813
HP1BP3	0.1598874	7.6661554	1.581753	0.1481956	0.44532	-5.245022
PTGER4	0.1395209	9.8669662	1.5815933	0.148232	0.44534	-5.245235
SREBF1	0.1417995	7.6030781	1.5814019	0.1482756	0.44538	-5.24549
ZNF343	0.1200461	8.1491359	1.5811846	0.1483251	0.44538	-5.245779
MPHOSPH8	-0.1314	8.4000809	-1.581109	0.1483423	0.44538	-5.245879
WDR60	-0.112673	7.7998042	-1.581	0.1483671	0.44538	-5.246025
SNU13	-0.123183	9.9735035	-1.580252	0.1485376	0.4458	-5.247019
SENP1	0.1144585	7.0617778	1.579958	0.1486048	0.44591	-5.247411
MIR663B	0.1026026	6.9647653	1.5794061	0.1487307	0.44609	-5.248145
MIR548I1	0.1202679	6.8750085	1.5792678	0.1487623	0.44609	-5.248329
PPM1E	0.146551	8.4686131	1.5791922	0.1487796	0.44609	-5.24843
MAP3K20	0.1538752	7.762916	1.5791539	0.1487884	0.44609	-5.248481
ACSS3	-0.106354	6.9823219	-1.578642	0.1489053	0.44635	-5.249161
CRYBB2	-0.126039	9.8002794	-1.578496	0.1489386	0.44636	-5.249355
TPP2	-0.12646	7.7902195	-1.578104	0.1490285	0.44653	-5.249877
PACS1	0.2057354	7.7225566	1.5777784	0.1491029	0.44667	-5.25031
NEK7	-0.156307	7.1900433	-1.577515	0.1491632	0.44671	-5.25066
ZFAND1	-0.225548	9.0753037	-1.57744	0.1491804	0.44671	-5.25076
3-Mar	-0.101113	7.3749284	-1.576842	0.1493174	0.44703	-5.251554
NFATC3	0.1067891	7.3525539	1.575456	0.1496353	0.44789	-5.253396
RUBCN	0.1222343	7.464191	1.5753004	0.149671	0.44791	-5.253602
CYP20A1	0.1075239	7.8021873	1.5745173	0.149851	0.44835	-5.254642
AZU1	0.1626348	7.0331181	1.5743979	0.1498785	0.44835	-5.254801
ATP1A1-AS1	-0.166906	7.5903497	-1.574158	0.1499335	0.44842	-5.255119
PPP1R8	-0.124778	8.7160491	-1.574009	0.149968	0.44843	-5.255318
MBD1	0.1254096	7.4970731	1.5729447	0.150213	0.44888	-5.25673
SHROOM4	0.134469	7.8013623	1.5728518	0.1502344	0.44888	-5.256853
NDUFAB1	-0.260713	11.904248	-1.572849	0.150235	0.44888	-5.256857
FAM83D	0.1657422	8.8563865	1.5728225	0.1502411	0.44888	-5.256892
HOXA5	0.1026173	8.8579167	1.572594	0.1502938	0.44894	-5.257195
ANAPC7	-0.180352	8.2517074	-1.572393	0.1503401	0.44899	-5.257462
UBTD1	0.1653306	7.0748803	1.5720765	0.1504131	0.44905	-5.257882
WARS2	-0.122357	6.9426791	-1.572046	0.1504201	0.44905	-5.257922
PLAG1	-0.194364	7.6396316	-1.571232	0.1506081	0.44951	-5.259002
CLCN2	-0.108354	7.0747913	-1.570959	0.1506711	0.44955	-5.259364
BAZ1B	0.1313018	7.6827586	1.570703	0.1507303	0.44955	-5.259703
VCL	0.1120618	8.6494385	1.5706235	0.1507486	0.44955	-5.259809
NAXE	0.1538675	10.657246	1.5704631	0.1507857	0.44955	-5.260022
WSB2	0.1148174	6.7765483	1.5704427	0.1507904	0.44955	-5.260049
CAMP	-0.147883	8.54545	-1.570386	0.1508034	0.44955	-5.260123

DENND1C	0.1615434	7.4291335	1.5700435	0.1508827	0.44969	-5.260578
ZNF549	0.1688223	9.0658279	1.5692233	0.1510726	0.45016	-5.261665
GAS2L3	-0.097772	6.8073414	-1.568993	0.151126	0.45023	-5.261971
DNAJC1	-0.115637	7.06789	-1.568284	0.1512903	0.45055	-5.26291
ZBTB40	0.2728876	7.9609339	1.5682388	0.1513008	0.45055	-5.26297
KPNA5	-0.115223	7.0234196	-1.568131	0.1513259	0.45055	-5.263113
IL1R2	0.118324	8.2452633	1.5676049	0.1514478	0.45082	-5.263809
RETREG2	0.1225019	7.5774553	1.567262	0.1515274	0.45097	-5.264263
RCCD1	-0.137274	7.5567144	-1.566728	0.1516515	0.45108	-5.264971
PCM1	0.2094482	8.7640909	1.5667185	0.1516537	0.45108	-5.264983
PNKP	0.1638867	9.2877203	1.566699	0.1516582	0.45108	-5.265009
CSF2RB	0.1420989	6.9603055	1.5663482	0.1517398	0.45123	-5.265474
SNX14	-0.132967	7.7128783	-1.566218	0.1517699	0.45123	-5.265645
CLC	0.1148149	6.9859079	1.5660479	0.1518096	0.45125	-5.265871
TFAP4	0.1131828	7.6984781	1.5658344	0.1518593	0.45131	-5.266154
RFWD2	-0.100978	9.1445444	-1.565635	0.1519056	0.45131	-5.266418
DNAJB13	-0.12111	6.8089841	-1.56557	0.1519209	0.45131	-5.266504
TPST2	-0.132501	8.3924005	-1.564871	0.1520836	0.45162	-5.267429
TSSC1	0.1141748	9.8281007	1.5646514	0.1521347	0.45162	-5.267719
RB1CC1	-0.19409	8.9739452	-1.564585	0.1521501	0.45162	-5.267807
HIST2H3A	-0.102365	6.8010515	-1.564504	0.1521691	0.45162	-5.267914
ITPR1	0.1115805	8.3629625	1.564459	0.1521796	0.45162	-5.267974
DUSP28	-0.140723	8.8153881	-1.564289	0.1522191	0.45164	-5.268198
ZBTB11	-0.154462	7.4693458	-1.564111	0.1522606	0.45165	-5.268434
RIMBP3B	0.1429113	6.905555	1.5640203	0.1522819	0.45165	-5.268554
RDM1	0.1173508	7.2452919	1.5638704	0.1523168	0.45166	-5.268753
TGOLN2	0.1381737	9.2338049	1.5636954	0.1523576	0.45169	-5.268984
NSDHL	-0.198923	9.9671608	-1.562653	0.152601	0.45232	-5.270362
CYLD	0.1466491	7.4236926	1.5616915	0.1528259	0.45283	-5.271634
RNF146	0.107661	7.4423344	1.5616455	0.1528366	0.45283	-5.271694
ARL6IP5	-0.191812	11.030424	-1.560895	0.1530123	0.45326	-5.272686
DNAJB2	0.129155	8.3906646	1.5600495	0.1532105	0.45376	-5.273803
PAFAH2	0.1353548	7.7587332	1.5596688	0.1532998	0.45393	-5.274306
TICAM1	0.1496517	8.4752547	1.5594547	0.1533501	0.45398	-5.274589
VAMP8	-0.198294	11.790152	-1.55926	0.1533958	0.45403	-5.274846
RPL10A	-0.200985	13.819099	-1.559051	0.1534449	0.45408	-5.275123
MGAT4B	0.1375073	7.5139664	1.5587003	0.1535272	0.45423	-5.275585
DCTPP1	-0.106015	11.807372	-1.558461	0.1535835	0.45431	-5.275901
UGP2	-0.119483	8.0463002	-1.558112	0.1536655	0.45446	-5.276362
PRY	-0.114525	6.906179	-1.557529	0.1538027	0.45469	-5.277132
SLC25A37	-0.131151	8.1402714	-1.557512	0.1538066	0.45469	-5.277153
DKFZP586I1	0.1250447	7.5516256	1.5570384	0.1539181	0.45481	-5.277779
ARHGEF35	-0.118133	6.9738975	-1.556937	0.153942	0.45481	-5.277912

TXN2	0.1228195	8.0652877	1.5568453	0.1539636	0.45481	-5.278034
RABGAP1L	-0.149727	8.8088888	-1.556806	0.1539728	0.45481	-5.278085
FKBP1A	0.2029239	10.405145	1.5564554	0.1540555	0.45497	-5.278548
REEP1	-0.09768	6.6659073	-1.556255	0.1541028	0.45501	-5.278813
TNFSF9	0.1376554	8.6769997	1.5556528	0.1542447	0.45525	-5.279607
FAM199X	-0.16683	7.472052	-1.555499	0.1542811	0.45525	-5.27981
U2AF1L4	-0.102895	7.5035517	-1.555389	0.154307	0.45525	-5.279955
FBXO46	0.1266193	7.7376719	1.5553873	0.1543073	0.45525	-5.279957
RAVER2	0.1074056	6.8244751	1.5550263	0.1543926	0.45541	-5.280433
HIST1H2BH	0.1977096	7.761958	1.5546854	0.1544731	0.45544	-5.280882
BRICD5	-0.136413	6.9532827	-1.55465	0.1544815	0.45544	-5.28093
RPUSD1	0.2255239	8.7952755	1.5545812	0.1544977	0.45544	-5.28102
PLK1	0.1384388	8.072019	1.5544456	0.1545297	0.45544	-5.281199
C20orf203	0.1523671	7.1154402	1.5540887	0.1546141	0.4556	-5.281669
ZFP3	-0.106609	6.8881351	-1.553529	0.1547465	0.4559	-5.282407
HRAS	0.2055164	9.2781919	1.5531187	0.1548436	0.45609	-5.282947
PRO0628	0.2231462	7.1978427	1.5529387	0.1548862	0.45613	-5.283185
POLR2G	-0.113852	11.485958	-1.552603	0.1549658	0.45627	-5.283627
GLIDR	-0.137866	6.9307113	-1.552466	0.1549981	0.45627	-5.283807
ECT2L	-0.102031	6.9093828	-1.551815	0.1551524	0.45641	-5.284665
DHRS7B	0.1224745	8.0922624	1.551815	0.1551525	0.45641	-5.284665
RYK	-0.135121	8.4418315	-1.551728	0.155173	0.45641	-5.284779
CASP1	-0.133798	7.903045	-1.551676	0.1551855	0.45641	-5.284848
FCHO1	0.1273789	7.7626064	1.5516123	0.1552006	0.45641	-5.284932
NAT1	-0.108692	6.8648289	-1.550346	0.1555012	0.4572	-5.286599
SLC12A8	0.2219138	8.2328387	1.550167	0.1555438	0.45723	-5.286835
DPH5	-0.135807	9.7721623	-1.549965	0.1555918	0.45728	-5.287101
MCM4	0.131203	10.539503	1.5494821	0.1557066	0.45751	-5.287736
RAPGEF1	0.1176428	8.2573044	1.5493733	0.1557325	0.45751	-5.287879
ZGRF1	-0.179551	7.3782176	-1.549103	0.1557969	0.45752	-5.288235
LYZ	-0.113477	6.9522643	-1.548803	0.1558683	0.45752	-5.28863
UNKL	0.1362924	7.3530014	1.5487552	0.1558796	0.45752	-5.288693
RETREG3	0.1420542	7.4642166	1.5486986	0.1558931	0.45752	-5.288767
GTSE1	0.1226721	8.7308212	1.5486675	0.1559005	0.45752	-5.288808
SLC7A8	0.1237954	6.8709479	1.5485666	0.1559246	0.45752	-5.288941
LYAR	0.1101935	10.839434	1.5483031	0.1559874	0.45762	-5.289287
SSR4	0.1411324	12.277491	1.5480087	0.1560575	0.45765	-5.289675
CCNT1	0.1371684	8.549398	1.5478155	0.1561036	0.45765	-5.289929
SNORD91B	-0.152857	7.1738777	-1.547806	0.1561059	0.45765	-5.289941
LINC00174	0.136354	7.6038449	1.5477332	0.1561232	0.45765	-5.290037
ASNS	-0.162167	10.25421	-1.547332	0.156219	0.45778	-5.290565
RNU5A-1	-0.16447	7.0738905	-1.547278	0.1562319	0.45778	-5.290636
AKAP9	-0.155061	6.8647052	-1.546811	0.1563432	0.45784	-5.291249

ZNF653	-0.177025	8.1839659	-1.546806	0.1563444	0.45784	-5.291255
SUSD1	0.0963966	6.9074901	1.5468047	0.1563448	0.45784	-5.291258
HOPX	-0.126065	7.0530884	-1.546084	0.1565169	0.45825	-5.292205
HNRNPL	0.1923428	10.358291	1.5458523	0.1565723	0.45832	-5.29251
ABR	-0.10584	7.9149074	-1.545653	0.15662	0.45837	-5.292772
C2orf76	-0.129632	8.142216	-1.544987	0.1567793	0.45874	-5.293647
RPS17	-0.119575	13.958117	-1.54378	0.1570685	0.45936	-5.295232
TOR1AIP1	0.1182774	8.6941404	1.5436703	0.1570948	0.45936	-5.295376
RPL7	-0.218269	11.310653	-1.543574	0.157118	0.45936	-5.295503
TMEM248	0.1091373	8.2991088	1.5435208	0.1571306	0.45936	-5.295572
HDGFRP2	0.1612089	7.9971352	1.5434452	0.1571488	0.45936	-5.295672
FBXW7	0.1008055	7.7513175	1.5431335	0.1572235	0.45948	-5.296081
SAMD9	-0.10548	6.907885	-1.543012	0.1572528	0.45948	-5.296241
RNY4	-0.247245	7.9672378	-1.542602	0.1573511	0.45968	-5.296778
ZBP1	-0.096006	6.8945394	-1.541667	0.1575759	0.46009	-5.298006
NPIPA1	-0.20611	8.1697506	-1.541485	0.1576196	0.46009	-5.298245
CDO1	0.0954881	6.8110541	1.5414315	0.1576324	0.46009	-5.298315
ACTRT1	-0.127952	7.5242145	-1.541389	0.1576428	0.46009	-5.298371
STAG3	-0.110821	8.3000835	-1.541349	0.1576522	0.46009	-5.298422
SMYD4	0.153454	8.585919	1.5411027	0.1577115	0.46018	-5.298746
SRSF4	0.2503254	11.360532	1.5408278	0.1577777	0.46019	-5.299107
ZNF425	0.1169614	7.0199731	1.5408246	0.1577785	0.46019	-5.299111
PLA2G16	-0.13923	6.9143333	-1.539967	0.1579851	0.46061	-5.300236
MIR202	0.1278102	7.0261494	1.539954	0.1579882	0.46061	-5.300253
C1QL3	-0.139174	6.8895091	-1.539309	0.1581436	0.46092	-5.301098
MAP2K4	0.1054642	8.1832338	1.5392581	0.158156	0.46092	-5.301165
OTUD4	0.1433354	7.5015275	1.5389047	0.1582412	0.46095	-5.301628
TMEM183A	-0.131129	9.7479598	-1.5389	0.1582424	0.46095	-5.301635
CNOT9	-0.129069	10.068414	-1.538791	0.1582688	0.46095	-5.301778
ADRA2B	0.1198422	7.0195041	1.5386889	0.1582933	0.46095	-5.301911
BCORL1	0.1189126	7.0573206	1.5382799	0.1583921	0.46107	-5.302447
ALX1	0.09959	6.9867948	1.5382651	0.1583957	0.46107	-5.302467
ITGB1BP1	-0.11565	9.3289935	-1.537867	0.1584919	0.46125	-5.302989
EVL	0.1538957	10.115109	1.5375639	0.1585651	0.46138	-5.303386
NEDD4L	0.1158295	7.4304816	1.5370487	0.1586898	0.46165	-5.304061
PRMT9	-0.153975	8.0995083	-1.536675	0.1587803	0.46182	-5.304551
DEFB131	0.1147079	6.8993184	1.5362156	0.1588914	0.46205	-5.305152
DNAJC13	0.1533018	8.0584125	1.5349963	0.159187	0.46252	-5.306748
COMMD5	-0.109427	8.1215647	-1.534992	0.1591882	0.46252	-5.306754
TNFRSF10B	-0.123313	7.7349446	-1.534978	0.1591915	0.46252	-5.306772
MED21	-0.21364	7.0208296	-1.534944	0.1591998	0.46252	-5.306817
LZTFL1	-0.143761	7.6058347	-1.534776	0.1592405	0.46252	-5.307036
DTX2	0.1215423	8.3994225	1.5346592	0.1592688	0.46252	-5.307189

TBC1D10A	0.1091932	7.5442566	1.5345765	0.1592889	0.46252	-5.307297
CIDEB	0.0936347	6.763636	1.5344958	0.1593085	0.46252	-5.307403
FAM171A1	0.1073246	7.1292137	1.5340612	0.1594141	0.46274	-5.307972
SRRT	0.0947748	9.4826527	1.533607	0.1595244	0.46291	-5.308566
UTP6	-0.20146	11.102535	-1.533424	0.159569	0.46291	-5.308806
NPIPB15	-0.263981	8.3792088	-1.533414	0.1595713	0.46291	-5.308818
STARD3	0.1299198	7.594739	1.5331916	0.1596254	0.46291	-5.309109
CCL28	-0.09799	6.8384208	-1.533167	0.1596314	0.46291	-5.309142
RNF34	-0.108833	8.8499094	-1.532775	0.1597268	0.46309	-5.309655
UTP18	-0.111823	9.2547811	-1.532656	0.1597557	0.46309	-5.30981
ARFGEF1	0.1506064	8.1638478	1.532427	0.1598115	0.46316	-5.310109
KIF11	0.1574226	8.8157852	1.5319109	0.1599372	0.46339	-5.310784
RRN3P1	-0.127198	7.1244186	-1.531837	0.1599553	0.46339	-5.310881
MXRA8	0.1036654	6.8080595	1.5315069	0.1600357	0.46351	-5.311312
SYCP2L	-0.114683	6.7817227	-1.531397	0.1600624	0.46351	-5.311456
TMED4	0.1384862	8.7058552	1.5301176	0.1603746	0.46396	-5.313128
RFX6	0.1186984	6.9271101	1.5301127	0.1603758	0.46396	-5.313135
RAP1GAP	-0.099115	7.0424114	-1.530067	0.160387	0.46396	-5.313194
LINC01018	0.3027416	10.229908	1.5300362	0.1603945	0.46396	-5.313234
MSRB2	-0.192704	9.849249	-1.529936	0.1604191	0.46396	-5.313366
TEX15	-0.104066	6.7971614	-1.529916	0.1604239	0.46396	-5.313392
EXTL3	0.1170547	7.377207	1.5298481	0.1604405	0.46396	-5.31348
HEY1	-0.121606	7.6399855	-1.529296	0.1605755	0.46426	-5.314202
CSTB	0.1148117	11.295736	1.529089	0.160626	0.46432	-5.314472
CCSAP	-0.139459	6.9466335	-1.528718	0.1607168	0.46447	-5.314956
MIR125B2	0.1183255	7.4306332	1.5283542	0.1608058	0.46447	-5.315431
FER1L4	-0.110791	7.0322951	-1.52811	0.1608657	0.46447	-5.31575
EHHADH	-0.105179	6.8827107	-1.528105	0.1608667	0.46447	-5.315756
PALD1	-0.110067	8.3377908	-1.528102	0.1608677	0.46447	-5.315761
CBX4	0.2048693	8.2474768	1.5279784	0.1608978	0.46447	-5.315922
POLR3G	-0.118124	8.3589763	-1.527969	0.1609003	0.46447	-5.315935
PYGO2	0.1939265	7.5763991	1.527665	0.1609746	0.46448	-5.316331
CTCF	0.1770234	8.7360781	1.5276459	0.1609793	0.46448	-5.316356
ADNP2	0.1115056	8.701002	1.5275592	0.1610006	0.46448	-5.316469
SNAP29	0.1261749	8.0205643	1.5272383	0.1610792	0.46461	-5.316888
ERCC4	-0.10925	6.8720518	-1.526828	0.1611799	0.46481	-5.317424
ARPC3	-0.151644	10.592868	-1.526546	0.161249	0.46492	-5.317791
GSDMA	-0.172362	7.3986662	-1.525736	0.1614478	0.4654	-5.318848
FCRLB	-0.132206	8.0916021	-1.525406	0.161529	0.4655	-5.319279
PRKG1	-0.137318	6.8995543	-1.525342	0.1615446	0.4655	-5.319361
EEF2	0.1410187	13.573311	1.5251013	0.1616039	0.46558	-5.319676
HS6ST2	0.1023592	6.8310108	1.524611	0.1617245	0.46583	-5.320315
FAM209B	0.1001871	7.0014937	1.5244142	0.1617729	0.46588	-5.320572

CEP131	-0.141468	7.6835984	-1.523803	0.1619235	0.46618	-5.321369
FASTKD5	-0.116785	9.2484017	-1.52371	0.1619463	0.46618	-5.32149
SWAP70	0.1234402	11.67956	1.5236077	0.1619716	0.46618	-5.321623
UNG	0.1058245	8.1222651	1.5229934	0.162123	0.46652	-5.322424
ZKSCAN2	0.1147224	7.2412309	1.5224971	0.1622454	0.46677	-5.32307
ABHD12	0.1098627	7.7283109	1.5223248	0.1622879	0.46677	-5.323295
PRPF40A	0.2000663	7.8620446	1.5222546	0.1623052	0.46677	-5.323386
MIR939	-0.124506	6.9591224	-1.522107	0.1623418	0.46678	-5.323579
ADCY9	-0.099715	6.7434764	-1.521437	0.1625073	0.46716	-5.324452
AQP7P2	0.110252	6.9887892	1.5212955	0.1625421	0.46717	-5.324635
SMS	0.1113117	11.074971	1.5208572	0.1626505	0.46739	-5.325206
SEC31B	-0.137792	6.9760067	-1.520737	0.1626801	0.46739	-5.325362
FNDC3B	0.151093	7.6159121	1.5204479	0.1627517	0.4675	-5.325739
CCDC102A	-0.144188	7.8936847	-1.520033	0.1628544	0.4677	-5.326279
UBE2V2	-0.112758	10.815433	-1.519095	0.1630867	0.46828	-5.327499
HELZ2	0.1104589	7.1854638	1.5182452	0.1632975	0.46874	-5.328605
NPFFR2	0.1640933	7.0057154	1.5181264	0.163327	0.46874	-5.32876
CRTC1	0.107094	6.7922832	1.5180526	0.1633453	0.46874	-5.328856
STX18-AS1	0.1182788	7.8350966	1.5177953	0.1634092	0.46881	-5.32919
OR10H5	-0.126228	6.8230063	-1.517486	0.163486	0.46881	-5.329593
PWP2	-0.131505	7.4570628	-1.517442	0.1634969	0.46881	-5.32965
TMEM218	0.1025	7.8559169	1.5174395	0.1634976	0.46881	-5.329653
NYAP2	0.0980851	6.9826963	1.5171418	0.1635716	0.46893	-5.33004
FBXL19-AS1	0.1224496	7.5137138	1.5168976	0.1636323	0.46901	-5.330358
RBSN	0.1241834	9.1778714	1.5161527	0.1638176	0.46945	-5.331326
FSTL4	0.142964	7.1850743	1.5159038	0.1638795	0.46954	-5.331649
SLC36A4	0.1270754	7.4890508	1.5156947	0.1639316	0.46959	-5.331921
RMRP	-0.163119	7.0535642	-1.515147	0.164068	0.46989	-5.332633
CSMD2	-0.115372	6.9016987	-1.514924	0.1641236	0.46996	-5.332922
LOC643896	-0.171217	6.9588782	-1.51475	0.164167	0.46999	-5.333149
CBLL1	0.1261358	8.628514	1.5143423	0.1642686	0.47019	-5.333678
LMNB1	0.2460169	8.8139244	1.5137877	0.1644071	0.4704	-5.334398
ZFP92	-0.11711	6.9317005	-1.513744	0.164418	0.4704	-5.334455
GPATCH2L	-0.104889	7.1451014	-1.513666	0.1644373	0.4704	-5.334556
ZFP42	0.1355668	6.9836095	1.5134418	0.1644934	0.47046	-5.334847
LLPH	-0.136148	9.4569952	-1.513021	0.1645985	0.47055	-5.335393
TMEM39B	0.2112481	9.3502868	1.5130007	0.1646036	0.47055	-5.33542
CEND1	0.1428876	8.0326907	1.5129298	0.1646213	0.47055	-5.335512
LINC02035	-0.109242	6.9341722	-1.512592	0.1647059	0.4707	-5.335951
PEX14	0.2321108	7.8788613	1.5123274	0.164772	0.4707	-5.336294
DEFB132	-0.13216	6.8561478	-1.512171	0.1648111	0.4707	-5.336497
TOMM40	0.2280924	12.397638	1.5121693	0.1648115	0.4707	-5.336499
INTS2	-0.207749	8.6614178	-1.512079	0.164834	0.4707	-5.336616

KLHL25	0.1217223	6.9546274	1.5117666	0.1649123	0.47079	-5.337022
SEZ6	0.1300327	6.7965019	1.5116572	0.1649397	0.47079	-5.337163
CTDNEP1	0.207157	8.6382206	1.5113929	0.1650059	0.47079	-5.337506
POLR2H	-0.152789	12.077038	-1.511299	0.1650294	0.47079	-5.337628
NXF1	0.1165899	9.4185252	1.5111906	0.1650565	0.47079	-5.337769
RNF125	-0.101924	6.9568485	-1.511172	0.1650613	0.47079	-5.337793
HNRNPCL1	-0.103277	7.0061984	-1.510993	0.165106	0.47079	-5.338025
NEIL3	-0.103957	7.4917171	-1.510783	0.1651588	0.47079	-5.338298
ATP23	-0.12361	9.8602079	-1.510638	0.165195	0.47079	-5.338485
NDUFA4L2	0.1040751	7.1200402	1.5105666	0.1652129	0.47079	-5.338578
LINC00160	-0.112094	6.943273	-1.510484	0.1652336	0.47079	-5.338685
PPM1D	-0.251935	8.3937397	-1.510406	0.1652531	0.47079	-5.338786
CACNB1	0.1441846	7.0061092	1.5099971	0.1653558	0.47099	-5.339317
PTPRCAP	0.1521886	10.003431	1.5093067	0.1655291	0.47139	-5.340212
MIR1234	0.1647384	6.96306	1.5088975	0.1656319	0.4716	-5.340742
KIF5B	0.2598457	8.5667433	1.5086908	0.1656839	0.47165	-5.34101
GSTA1	0.1308956	6.8939497	1.5085206	0.1657266	0.47168	-5.34123
PRPF38B	0.1271454	7.819119	1.5083638	0.1657661	0.4717	-5.341434
EEF1A1P9	-0.163877	13.55319	-1.507535	0.1659747	0.4722	-5.342508
POLR2C	0.1244631	9.4325705	1.5069591	0.1661196	0.47249	-5.343253
POU4F1	-0.106264	6.7679657	-1.506871	0.1661419	0.47249	-5.343368
RELL1	-0.095396	6.9401243	-1.506732	0.1661769	0.4725	-5.343548
BORA	-0.13466	9.3645976	-1.50641	0.1662582	0.47256	-5.343965
ULK1	-0.141196	8.7263534	-1.50639	0.166263	0.47256	-5.34399
CFAP74	0.2034758	9.8930654	1.5062223	0.1663054	0.47259	-5.344207
PAPOLA	-0.163218	10.863101	-1.505742	0.1664266	0.47284	-5.34483
DCPS	0.1462557	9.1719267	1.5056183	0.1664578	0.47284	-5.344989
POM121L8P	-0.222647	8.0700236	-1.505478	0.1664932	0.47285	-5.345171
DTL	0.1131321	7.7724799	1.5048539	0.1666508	0.47317	-5.345979
FAM103A1	-0.16343	8.2797498	-1.504692	0.1666917	0.47317	-5.346188
ATL2	-0.122315	8.1847597	-1.504538	0.1667306	0.47317	-5.346387
OR14I1	0.1014081	6.9502475	1.504491	0.1667425	0.47317	-5.346448
E2F4	0.1159515	10.180008	1.5043813	0.1667702	0.47317	-5.34659
LOC1002407	0.1284242	7.0145512	1.5042558	0.166802	0.47317	-5.346752
OR5AS1	0.1640839	6.9724207	1.5037074	0.1669407	0.47347	-5.347462
OR4M2	0.0951903	6.9745231	1.5032935	0.1670454	0.47368	-5.347997
BRAF	0.1011924	7.0838134	1.5029481	0.1671329	0.47376	-5.348444
TGFBI	-0.116971	7.0127676	-1.502931	0.1671372	0.47376	-5.348466
GCLC	-0.129297	7.4612885	-1.502764	0.1671796	0.47378	-5.348682
MBD3	0.1445905	8.256017	1.5024974	0.1672471	0.47388	-5.349027
DNM1	-0.10974	6.7159517	-1.502375	0.167278	0.47388	-5.349184
SNRPC	0.1453409	10.130834	1.5016809	0.1674542	0.47429	-5.350082
BSDC1	0.1674648	8.9990776	1.5013684	0.1675335	0.47436	-5.350486

GORAB	-0.123143	7.7813445	-1.501326	0.1675441	0.47436	-5.35054
ANXA8L1	-0.117385	6.9694869	-1.501049	0.1676146	0.47437	-5.350899
LMBRD1	-0.167818	9.8719249	-1.501048	0.1676149	0.47437	-5.3509
FZD7	0.1093519	7.386361	1.5005361	0.1677449	0.47457	-5.351561
PRNP	-0.135976	9.6426705	-1.500522	0.1677484	0.47457	-5.351579
RALGAPA2	0.094265	6.8829079	1.4998902	0.1679091	0.47491	-5.352396
BUB3	-0.128484	9.7439859	-1.499787	0.1679354	0.47491	-5.352529
RBMY3AP	-0.129461	6.8847203	-1.499373	0.1680405	0.47512	-5.353063
MPV17L	-0.109786	6.922602	-1.498462	0.1682727	0.47563	-5.35424
TFIP11	0.1180524	8.159357	1.4984086	0.1682862	0.47563	-5.354308
ANAPC1	0.0940414	9.5938166	1.4978747	0.1684224	0.47579	-5.354998
ARHGAP19	0.0984727	8.957478	1.4978085	0.1684392	0.47579	-5.355083
PSMA7	-0.131279	6.9819182	-1.497792	0.1684435	0.47579	-5.355104
VLDLR	0.1263313	7.1493121	1.4970146	0.1686418	0.47616	-5.356107
FAM217B	0.2223	8.7228588	1.4967382	0.1687124	0.47616	-5.356464
AGBL2	-0.095968	6.7545271	-1.496486	0.1687767	0.47616	-5.356789
FEN1	0.1515167	10.302633	1.4963713	0.1688061	0.47616	-5.356937
MGAT1	0.1733126	8.9742546	1.4962389	0.16884	0.47616	-5.357108
PTENP1	-0.12728	6.9657602	-1.496225	0.1688435	0.47616	-5.357126
TTC9	0.10551	7.6855444	1.4961051	0.1688742	0.47616	-5.35728
KCNMB4	-0.148629	8.5432143	-1.495941	0.168916	0.47616	-5.357491
SFMBT2	0.1598279	7.4020901	1.4959354	0.1689175	0.47616	-5.357499
TOE1	-0.098892	7.9857427	-1.495863	0.1689362	0.47616	-5.357593
LRRC1	-0.127543	7.4699456	-1.495859	0.1689372	0.47616	-5.357598
ITIH5	-0.13035	13.873654	-1.495601	0.169003	0.47616	-5.35793
SPINK2	-0.132184	8.1833788	-1.495511	0.169026	0.47616	-5.358046
BBS4	-0.095629	7.8123867	-1.495441	0.1690441	0.47616	-5.358137
FLRT1	0.0934223	6.8070899	1.4953667	0.169063	0.47616	-5.358232
NOX1	0.1125397	6.9099747	1.4951786	0.1691111	0.47621	-5.358475
MT1A	0.1805779	10.361409	1.4949526	0.169169	0.47626	-5.358766
CRY2	0.132977	8.1748004	1.4948534	0.1691944	0.47626	-5.358894
LOC401052	-0.124661	6.818706	-1.494719	0.1692287	0.47626	-5.359067
PRDX3	-0.184401	11.72664	-1.494469	0.1692929	0.47635	-5.35939
FBXO41	0.2032022	7.6226579	1.4930946	0.1696453	0.47725	-5.36116
GATA6	0.0953445	6.8161019	1.492967	0.169678	0.47725	-5.361325
ANXA2R	-0.134592	7.0958148	-1.492716	0.1697424	0.47725	-5.361648
C3orf58	0.1522219	7.8677426	1.4927082	0.1697445	0.47725	-5.361658
PPRC1	0.1333742	9.8840601	1.4918869	0.1699555	0.47775	-5.362716
UTY	-0.107127	7.2799273	-1.491659	0.1700141	0.47778	-5.363009
GRM2	0.1667795	7.1356987	1.4915925	0.1700312	0.47778	-5.363095
DPCR1	0.1036998	7.0264331	1.491197	0.1701329	0.4778	-5.363604
LSM12	0.15375	8.9871336	1.4909062	0.1702077	0.4778	-5.363978
MIR185	-0.140638	7.0402816	-1.490852	0.1702218	0.4778	-5.364048

SNX6	-0.122367	7.879023	-1.490806	0.1702335	0.4778	-5.364107
NMNAT1	0.1424088	7.3637157	1.4907969	0.1702359	0.4778	-5.364119
ADA	-0.175016	9.5932853	-1.490424	0.1703318	0.4778	-5.364598
LOC1001302	0.1879283	7.9122452	1.4902596	0.1703742	0.4778	-5.36481
SNUPN	0.1584965	9.3457985	1.4902134	0.1703861	0.4778	-5.364869
ACSBG2	-0.104256	6.7694147	-1.490206	0.1703879	0.4778	-5.364878
TTI1	0.1619677	7.9096641	1.4900995	0.1704155	0.4778	-5.365016
RNF215	0.117274	7.157815	1.4900432	0.17043	0.4778	-5.365088
STAG3L1	-0.143728	7.7868864	-1.490035	0.170432	0.4778	-5.365099
HERPUD2	-0.105389	7.3243283	-1.489847	0.1704806	0.4778	-5.365341
C19orf43	0.1137491	10.09526	1.4897923	0.1704946	0.4778	-5.365411
INPPL1	-0.143862	9.2306142	-1.489632	0.170536	0.47782	-5.365617
COL6A2	0.0940343	6.9054092	1.4890568	0.1706843	0.47815	-5.366357
ATG12	-0.106215	8.1660193	-1.488538	0.1708182	0.47834	-5.367024
SKI	0.1607561	7.2670025	1.4884312	0.1708458	0.47834	-5.367161
PIN1	-0.118365	11.337777	-1.488303	0.170879	0.47834	-5.367327
SSU72	-0.247165	12.332888	-1.488273	0.1708866	0.47834	-5.367364
MTFR2	-0.108686	7.9189085	-1.487696	0.1710357	0.47859	-5.368106
PLP1	0.1253396	7.4590777	1.4876763	0.1710409	0.47859	-5.368132
RBKS	-0.117892	7.2791869	-1.487286	0.1711417	0.47866	-5.368633
GPATCH4	0.1169772	8.5565391	1.4872154	0.17116	0.47866	-5.368724
DHRS7	0.1234048	10.977746	1.4871602	0.1711743	0.47866	-5.368795
FIS1	0.1725581	10.496705	1.4870784	0.1711955	0.47866	-5.3689
TMEM17	0.1391336	8.6439055	1.4865282	0.1713379	0.47873	-5.369607
PTK2B	0.1201899	7.7982347	1.4864932	0.1713469	0.47873	-5.369652
STAC	-0.12894	6.861729	-1.486452	0.1713576	0.47873	-5.369705
CYC1	0.1246924	12.595614	1.4862683	0.1714052	0.47873	-5.369941
EPC2	-0.12493	6.9616889	-1.486139	0.1714385	0.47873	-5.370107
RALBP1	-0.149111	9.04357	-1.486102	0.1714482	0.47873	-5.370154
XPR1	0.1014208	8.3495148	1.4860901	0.1714513	0.47873	-5.37017
TSPYL5	-0.095002	6.7440881	-1.485821	0.171521	0.47883	-5.370515
SASH1	0.0993687	6.8423155	1.4856044	0.1715772	0.4789	-5.370794
C3orf52	-0.133507	7.3132199	-1.48489	0.1717624	0.47927	-5.371711
POC5	-0.129269	8.6743234	-1.484633	0.1718291	0.47927	-5.372041
GPAM	-0.113865	8.6272052	-1.484625	0.1718311	0.47927	-5.372051
MKL2	0.1581661	7.0327678	1.4844901	0.1718662	0.47927	-5.372224
KCNJ13	-0.118142	6.835914	-1.484412	0.1718864	0.47927	-5.372324
SLC17A9	0.1943782	7.6187383	1.4843375	0.1719058	0.47927	-5.37242
PRMT1	0.1359444	10.503168	1.4836207	0.172092	0.4797	-5.37334
SUMO1	-0.094846	7.2544046	-1.483092	0.1722294	0.47999	-5.374018
PEX11A	0.1051824	7.3985172	1.4826892	0.1723343	0.48008	-5.374535
SEC13	0.1476549	9.2201853	1.4824839	0.1723877	0.48008	-5.374799
C17orf98	-0.149634	7.2810319	-1.482458	0.1723944	0.48008	-5.374831

GJD3	0.0907737	6.7600804	1.4824499	0.1723966	0.48008	-5.374842
SMAD6	-0.120203	6.9433218	-1.482214	0.1724579	0.48008	-5.375144
HIST1H3J	-0.146479	7.3795912	-1.4822	0.1724616	0.48008	-5.375163
KDM2B	0.0901644	8.5279287	1.4819251	0.1725332	0.48015	-5.375515
MGST2	-0.107024	6.8424984	-1.481856	0.1725513	0.48015	-5.375604
TBCK	-0.093637	7.7692676	-1.481554	0.1726298	0.48027	-5.375991
EXT2	0.0972896	8.0406106	1.481444	0.1726586	0.48027	-5.376132
SPDL1	-0.143855	8.423587	-1.480641	0.172868	0.48056	-5.377162
NUP62	0.1410788	10.414235	1.4806387	0.1728686	0.48056	-5.377164
SUMO4	-0.122258	6.9840525	-1.480466	0.1729138	0.48056	-5.377386
ZNF764	0.1552192	7.1883942	1.4804203	0.1729256	0.48056	-5.377444
INO80C	-0.155901	9.5450021	-1.480336	0.1729476	0.48056	-5.377552
NME7	-0.156014	7.8001652	-1.480253	0.1729693	0.48056	-5.377659
SEC23A	-0.121045	7.2397791	-1.480153	0.1729954	0.48056	-5.377787
BZW2	0.094004	11.77173	1.478819	0.173344	0.4812	-5.379496
ATP10B	0.0916224	6.9033724	1.4786068	0.1733995	0.4812	-5.379768
DUSP19	0.2182275	10.141933	1.4784043	0.1734524	0.4812	-5.380027
CRB2	-0.091675	6.754064	-1.478404	0.1734525	0.4812	-5.380027
ZFYVE21	-0.100683	8.4036353	-1.478243	0.1734946	0.4812	-5.380233
ZNF845	-0.199977	7.6631549	-1.477965	0.1735674	0.4812	-5.380589
GFOD1	-0.106714	8.3698918	-1.477925	0.1735778	0.4812	-5.38064
ADAM15	0.1148075	8.9090737	1.4779253	0.1735778	0.4812	-5.38064
PHRF1	0.1419713	8.6591345	1.477902	0.1735839	0.4812	-5.38067
LOC153577	0.1352326	6.9120878	1.4778237	0.1736044	0.4812	-5.38077
FOXE3	0.1509815	7.1753004	1.4776282	0.1736557	0.4812	-5.381021
DSCR3	-0.157261	8.7429816	-1.4775	0.1736892	0.4812	-5.381185
NAA38	0.1767294	10.185081	1.4774483	0.1737028	0.4812	-5.381251
ARHGDIG	-0.109584	6.9409067	-1.477377	0.1737216	0.4812	-5.381343
CNOT6L	0.1037063	7.0572145	1.4770093	0.1738178	0.4812	-5.381813
KLHL22	-0.163703	8.4199139	-1.476978	0.1738261	0.4812	-5.381853
TEN1	0.1121587	7.3815045	1.4769129	0.1738431	0.4812	-5.381936
BARX2	-0.138525	6.8510266	-1.476793	0.1738745	0.4812	-5.382089
ZBTB48	-0.166238	9.5610532	-1.476703	0.1738983	0.4812	-5.382205
PBX1	-0.098253	6.8648266	-1.476648	0.1739126	0.4812	-5.382275
PDCD6IP	0.2226135	8.9307533	1.4766251	0.1739186	0.4812	-5.382304
TMEM115	-0.194715	8.510342	-1.476411	0.1739748	0.48127	-5.382578
P2RY6	0.1025797	6.803989	1.4753104	0.1742638	0.48197	-5.383986
TBL3	0.1759785	7.7011282	1.4751116	0.174316	0.48203	-5.384241
SPACA9	0.0979714	8.021907	1.4749249	0.1743651	0.48207	-5.384479
CTNNB1	-0.107926	8.6025085	-1.474686	0.1744278	0.48215	-5.384784
DEDD	0.1200223	7.8924131	1.4741682	0.1745641	0.48244	-5.385447
ZNF442	0.1092458	6.9872861	1.4739809	0.1746134	0.48248	-5.385686
THSD7A	-0.094243	6.8865019	-1.473853	0.174647	0.48249	-5.385849

RAC1	0.1386763	9.264683	1.4735561	0.1747253	0.48259	-5.386229
UCHL3	-0.174077	10.442792	-1.473422	0.1747605	0.48259	-5.3864
C17orf64	0.1321561	6.9312451	1.4733305	0.1747847	0.48259	-5.386517
SMAD2	0.1283666	7.2780478	1.4729856	0.1748756	0.48275	-5.386958
HIST2H2AB	0.0917034	6.9065209	1.4728205	0.1749191	0.48278	-5.387169
SNRPF	0.1034713	12.607727	1.4723297	0.1750485	0.4829	-5.387796
UBE2DNL	0.119058	6.8673667	1.4722528	0.1750688	0.4829	-5.387894
MIR517B	-0.119698	6.9150874	-1.472217	0.1750782	0.4829	-5.38794
PLEKHN1	-0.137029	7.1372436	-1.472157	0.1750942	0.4829	-5.388017
SP7	0.0936162	6.855155	1.4719984	0.1751359	0.48292	-5.388219
RIPPLY3	-0.11716	6.8767475	-1.471688	0.1752178	0.48299	-5.388615
COL1A1	0.1826846	7.7107995	1.4716615	0.1752249	0.48299	-5.38865
FAM209A	-0.098183	6.7904024	-1.471237	0.1753371	0.4832	-5.389192
CDK11A	0.1921918	7.7498575	1.4710252	0.1753929	0.48327	-5.389462
NFIB	0.1165444	6.9720812	1.4703672	0.1755669	0.48341	-5.390302
RRAGB	-0.137584	7.5600395	-1.470356	0.1755698	0.48341	-5.390316
GPR155	-0.133221	6.8403355	-1.469962	0.1756741	0.48341	-5.390819
POLH	0.112334	7.2050129	1.4698725	0.1756978	0.48341	-5.390933
EPB41L4A-A	-0.10912	11.19682	-1.469838	0.175707	0.48341	-5.390978
ZNF584	0.127798	7.3535171	1.4698195	0.1757118	0.48341	-5.391001
SNORA80E	-0.103688	7.5538972	-1.469817	0.1757125	0.48341	-5.391004
CMIP	0.123474	8.3099491	1.4695929	0.1757718	0.48341	-5.39129
TUBG2	-0.134886	8.0409894	-1.469485	0.1758003	0.48341	-5.391428
LCP1	0.1074151	14.109225	1.4694824	0.175801	0.48341	-5.391431
ARMC10	0.1251112	9.1600914	1.4694535	0.1758087	0.48341	-5.391468
CLEC16A	0.1099591	10.104589	1.4690533	0.1759147	0.48358	-5.391978
TSG101	-0.127566	10.387595	-1.468956	0.1759405	0.48358	-5.392103
EIF1AX	-0.128834	8.3208354	-1.468724	0.176002	0.48358	-5.392399
ITPA	-0.112604	10.070669	-1.468535	0.1760521	0.48358	-5.39264
TUBGCP3	0.1234437	6.9272849	1.4684096	0.1760853	0.48358	-5.392799
RBM12	0.1031347	8.9921544	1.4683926	0.1760898	0.48358	-5.392821
MEX3A	0.1215476	7.3285993	1.4683392	0.176104	0.48358	-5.392889
TBC1D9	-0.138303	7.2731224	-1.467796	0.1762481	0.48389	-5.393582
MIR1289-1	-0.09664	6.9759757	-1.467658	0.1762847	0.4839	-5.393758
CCNB3	-0.117778	6.699608	-1.467332	0.1763712	0.48404	-5.394173
FAM200A	0.1295783	7.5648817	1.4669297	0.1764781	0.48416	-5.394686
SNORA51	-0.093603	6.9025517	-1.466847	0.1765001	0.48416	-5.394792
ETNK1	-0.095513	7.6469773	-1.466753	0.1765252	0.48416	-5.394912
ZNF132	0.1170852	7.0064549	1.4665737	0.1765727	0.48416	-5.39514
GCA	-0.13912	8.0313841	-1.466545	0.1765803	0.48416	-5.395176
TACC3	0.1234628	8.8367784	1.4662112	0.1766691	0.48431	-5.395602
KLHL2	-0.139808	7.8148008	-1.466068	0.1767072	0.48433	-5.395784
CENPN	-0.170871	9.5824399	-1.465888	0.176755	0.48437	-5.396013

FAM60A	-0.11576	9.7873903	-1.464413	0.1771477	0.48529	-5.397892
EGLN2	0.1187014	9.4358541	1.4642525	0.1771906	0.48529	-5.398097
B4GALT6	0.1075561	6.8265587	1.4641273	0.177224	0.48529	-5.398256
RRP7BP	0.1580253	10.588355	1.464118	0.1772265	0.48529	-5.398268
ITPKB	0.1678151	7.9109342	1.4638018	0.1773108	0.48536	-5.39867
PRPF39	-0.093396	6.9449537	-1.463784	0.1773155	0.48536	-5.398692
TYK2	-0.188931	11.013861	-1.463375	0.1774247	0.48556	-5.399213
LAMB2	-0.106569	6.7485161	-1.462971	0.1775327	0.48562	-5.399728
SAFB	-0.252543	9.7136742	-1.462938	0.1775414	0.48562	-5.39977
NMD3	-0.178928	9.6361201	-1.46269	0.1776077	0.48562	-5.400085
RANBP10	0.136712	8.3628141	1.4626008	0.1776315	0.48562	-5.400199
PRICKLE3	0.0970327	6.9492906	1.462583	0.1776362	0.48562	-5.400221
C5orf51	0.1981323	9.277812	1.462551	0.1776448	0.48562	-5.400262
VPS37A	-0.155604	7.6598363	-1.462087	0.177769	0.4857	-5.400853
TLR1	-0.22069	7.3951784	-1.462056	0.1777772	0.4857	-5.400892
SNORA22	-0.148481	7.2576081	-1.461994	0.1777937	0.4857	-5.400971
RAB31	-0.168498	6.8898671	-1.461949	0.1778057	0.4857	-5.401028
NEMF	0.195899	8.0939461	1.4612815	0.1779843	0.48595	-5.401877
HS3ST1	-0.107991	6.8165887	-1.461074	0.17804	0.48595	-5.402141
DLEU2L	-0.151131	7.1029277	-1.461009	0.1780572	0.48595	-5.402223
TMEM219	0.140779	8.5943342	1.4609882	0.1780628	0.48595	-5.40225
CDK12	0.1441667	8.4335176	1.4609799	0.178065	0.48595	-5.40226
NRARP	0.09737	6.7550377	1.4606586	0.1781511	0.48604	-5.402669
TOMM70	0.1218423	10.78149	1.4606006	0.1781666	0.48604	-5.402742
IMMP1L	-0.120513	7.0984008	-1.460466	0.1782027	0.48604	-5.402914
KDM4C	-0.0992	7.3268291	-1.460354	0.1782327	0.48604	-5.403056
KLHDC8B	-0.102585	6.7443279	-1.460052	0.1783137	0.48617	-5.40344
BCOR	0.1164076	7.8509467	1.4591752	0.1785489	0.48672	-5.404554
SLC29A1	0.1656552	9.5442627	1.4588864	0.1786264	0.48672	-5.404921
STRAP	0.1206704	11.849957	1.4588462	0.1786372	0.48672	-5.404972
PCDH18	-0.113632	6.8587091	-1.458751	0.1786627	0.48672	-5.405093
HSF2BP	-0.158698	7.138394	-1.45868	0.1786817	0.48672	-5.405183
TFDP1	-0.105991	11.754048	-1.458544	0.1787184	0.48673	-5.405356
XPNPEP1	-0.111262	11.304648	-1.45836	0.1787678	0.48678	-5.40559
CFAP45	0.1551455	7.1427805	1.4578117	0.1789152	0.48706	-5.406286
STRC	-0.098912	6.8572568	-1.457725	0.1789385	0.48706	-5.406396
MAST3	0.1582277	8.2979367	1.4575042	0.1789978	0.48713	-5.406676
ENO2	0.1104607	6.6944528	1.4568868	0.179164	0.48749	-5.40746
RAB1A	-0.188491	8.1152562	-1.456545	0.1792559	0.48765	-5.407893
TMX1	-0.158527	8.7679414	-1.456172	0.1793565	0.48783	-5.408367
KLHL21	0.1719567	7.7550472	1.4559156	0.1794256	0.48792	-5.408692
CLDN12	-0.148271	7.52079	-1.455806	0.1794552	0.48792	-5.408832
BAG3	0.1140508	6.9306771	1.4555896	0.1795135	0.48795	-5.409106

CREBRF	0.1298587	7.25303	1.455517	0.1795331	0.48795	-5.409198
ZIK1	0.0911244	6.8886704	1.4552312	0.1796102	0.48807	-5.409561
PDPR	-0.113117	6.9130219	-1.454738	0.1797432	0.48834	-5.410186
CYP2A13	-0.095017	6.9466095	-1.45455	0.1797941	0.48839	-5.410425
RBM27	0.1226275	8.4520476	1.4542861	0.1798653	0.48849	-5.410759
TNIP3	-0.09786	6.8109396	-1.454152	0.1799015	0.4885	-5.410929
KCNQ1	0.0927888	6.8839982	1.4537658	0.1800059	0.48869	-5.411419
KDM7A	0.1131041	6.9867292	1.4535196	0.1800725	0.48872	-5.411731
DHODH	0.0894376	7.4373601	1.4534747	0.1800846	0.48872	-5.411788
DNLZ	-0.130209	9.9219969	-1.453282	0.1801367	0.48877	-5.412032
TMEM145	0.1049927	6.926533	1.4522177	0.1804248	0.48939	-5.413381
QPRT	-0.148752	9.4207171	-1.452037	0.1804738	0.48939	-5.41361
LOC1005065	-0.101741	6.9770525	-1.451984	0.180488	0.48939	-5.413676
ZNF274	-0.092399	7.3817239	-1.45195	0.1804974	0.48939	-5.41372
ARL17B	-0.120643	7.2333105	-1.451455	0.1806314	0.48952	-5.414346
ATP5J2	-0.128375	11.926809	-1.451377	0.1806525	0.48952	-5.414445
DOCK11	-0.217909	9.0866177	-1.451334	0.1806643	0.48952	-5.4145
CCDC33	-0.120388	6.9163644	-1.451271	0.1806814	0.48952	-5.41458
CEP78	-0.101135	8.5807498	-1.450987	0.1807585	0.48957	-5.41494
ARID4B	0.1291162	7.6596133	1.4507176	0.1808315	0.48957	-5.41528
PBX2	-0.138333	8.4872171	-1.45069	0.1808389	0.48957	-5.415315
ALDH1L2	-0.104615	6.9724695	-1.450587	0.180867	0.48957	-5.415446
CDC40	-0.12772	9.4815058	-1.45058	0.180869	0.48957	-5.415455
ZSCAN12	-0.126318	7.0094214	-1.449935	0.1810439	0.48996	-5.41627
SLC38A10	0.148045	7.6142101	1.4486781	0.1813858	0.49064	-5.417861
NIPAL2	0.1041349	6.9095686	1.4486772	0.181386	0.49064	-5.417862
POLR3K	-0.118016	9.7323277	-1.448562	0.1814174	0.49064	-5.418009
RAB3D	0.0977261	6.9018706	1.4485092	0.1814317	0.49064	-5.418075
UHMK1	0.1726533	9.0072093	1.4481254	0.1815362	0.49071	-5.41856
ATP1A3	-0.093991	7.0827402	-1.448005	0.1815689	0.49071	-5.418712
CCDC146	-0.109502	6.8955582	-1.447998	0.181571	0.49071	-5.418722
KRT83	0.1206308	7.0135452	1.4479168	0.181593	0.49071	-5.418824
RPIA	-0.170032	10.536701	-1.447665	0.1816617	0.49081	-5.419143
KAT8	-0.118237	8.5937607	-1.447058	0.181827	0.49117	-5.419909
TCAM1P	0.0992454	7.3547063	1.4468823	0.181875	0.4912	-5.420132
NTAN1	-0.109785	8.3668517	-1.446299	0.1820341	0.49154	-5.420869
TMEM47	-0.146231	6.9486944	-1.445992	0.1821178	0.49168	-5.421257
DCLK1	-0.089111	6.9801427	-1.445816	0.1821659	0.49172	-5.421479
SRR	0.1436911	7.1884462	1.4456255	0.1822181	0.49177	-5.42172
SNORA4	-0.148806	7.1578259	-1.445352	0.1822928	0.49184	-5.422066
CLN5	-0.132912	7.6919127	-1.44528	0.1823126	0.49184	-5.422157
RAD51D	0.0943017	7.5084478	1.4449967	0.1823899	0.49196	-5.422514
PPP2R2C	0.0942901	6.9189168	1.4448096	0.1824411	0.492	-5.422751

NXF4	-0.131405	6.9227162	-1.444628	0.1824906	0.49205	-5.422979
SAV1	-0.11902	7.5092106	-1.443969	0.1826712	0.49239	-5.423812
DDA1	0.1395125	10.462788	1.4437955	0.1827186	0.49239	-5.424031
PLIN3	0.1267498	10.901663	1.4437944	0.1827189	0.49239	-5.424032
FDPS	-0.187043	9.5469926	-1.443479	0.1828054	0.49253	-5.424431
FHIT	-0.159925	7.3390619	-1.443343	0.1828425	0.49254	-5.424602
MELK	-0.103551	9.6260889	-1.443133	0.1829002	0.49254	-5.424868
PASK	0.1098841	8.3762176	1.443048	0.1829234	0.49254	-5.424974
ZBTB6	0.1292097	7.2184216	1.4428941	0.1829656	0.49254	-5.425169
RAB34	0.1520311	6.95871	1.4428544	0.1829765	0.49254	-5.425219
AVPI1	0.1039386	6.9890697	1.4423699	0.1831094	0.49256	-5.42583
TIGAR	-0.123726	10.147288	-1.44226	0.1831396	0.49256	-5.425969
SPIN4	-0.183176	7.9950468	-1.442128	0.1831758	0.49256	-5.426136
UNC5C	-0.09416	6.9785052	-1.442115	0.1831792	0.49256	-5.426151
PCED1B	-0.171531	8.7192025	-1.44208	0.1831888	0.49256	-5.426195
UBL5	-0.112781	9.4912783	-1.441837	0.1832557	0.49256	-5.426503
MRPL30	-0.107984	8.5512843	-1.441628	0.1833129	0.49256	-5.426765
PEX11G	0.1515321	7.0617433	1.4415963	0.1833217	0.49256	-5.426806
MORN4	-0.106299	7.1160744	-1.441321	0.1833973	0.49256	-5.427153
UROD	-0.132835	10.589855	-1.441286	0.183407	0.49256	-5.427197
SUCLA2	-0.156581	9.2264614	-1.441266	0.1834124	0.49256	-5.427222
DPF1	0.151912	7.234842	1.4411601	0.1834415	0.49256	-5.427356
AP4E1	0.1225399	8.424377	1.4411505	0.1834442	0.49256	-5.427368
BACH2	0.1159111	6.9478621	1.4409258	0.1835059	0.49256	-5.427651
ADM	0.1444735	7.1785307	1.4408656	0.1835225	0.49256	-5.427727
C16orf74	-0.115294	6.7874386	-1.440864	0.1835228	0.49256	-5.427729
MIR507	-0.165079	7.0505934	-1.44043	0.1836423	0.49279	-5.428276
PABPC1	0.1305862	13.004239	1.4401135	0.1837293	0.49293	-5.428675
DCTN2	0.129766	11.056552	1.4390891	0.1840114	0.4935	-5.429966
TSPY1	0.0976573	7.056375	1.4390287	0.184028	0.4935	-5.430042
LRRN2	0.1132237	7.0270527	1.4387993	0.1840912	0.4935	-5.430331
TPST1	-0.097286	7.2225705	-1.438738	0.1841081	0.4935	-5.430408
MRGBP	-0.111928	10.36362	-1.43873	0.1841103	0.4935	-5.430418
MRPL16	-0.126546	10.369229	-1.43845	0.1841876	0.49361	-5.430771
NKIRAS2	0.1182718	7.770466	1.4379518	0.184325	0.49389	-5.431398
GBA	0.1222495	8.0112895	1.4372168	0.1845279	0.49434	-5.432324
ECM1	-0.093339	6.9642959	-1.436676	0.1846773	0.49465	-5.433004
DCTN1-AS1	-0.103806	7.1022163	-1.436134	0.1848272	0.49496	-5.433687
SLC16A14	0.0958165	6.7833747	1.4357786	0.1849255	0.49514	-5.434134
GTF2A2	-0.14007	11.67708	-1.435635	0.1849653	0.49515	-5.434315
RBBP7	-0.2071	10.132138	-1.435419	0.1850252	0.49522	-5.434586
PABPC4L	-0.101389	6.7926036	-1.434993	0.1851429	0.49542	-5.435121
RFC3	-0.114602	8.2772632	-1.434911	0.1851656	0.49542	-5.435224

PRKAG2	-0.111227	7.7669558	-1.434758	0.1852081	0.49544	-5.435417
PHF2	0.0986754	7.6012131	1.4342203	0.1853572	0.49575	-5.436093
CCDC88A	-0.218211	7.9718814	-1.43401	0.1854154	0.49576	-5.436358
MINK1	-0.112045	6.9016787	-1.43395	0.185432	0.49576	-5.436433
RPL24	-0.168379	14.209753	-1.433833	0.1854646	0.49576	-5.43658
PDCL	0.1001889	7.6468032	1.4336809	0.1855068	0.49576	-5.436771
LYPD4	0.1542088	6.8892376	1.4335735	0.1855366	0.49576	-5.436906
EVI2B	0.1299315	8.1859156	1.4334656	0.1855665	0.49576	-5.437042
FZD6	-0.095175	6.6886753	-1.433311	0.1856095	0.49578	-5.437237
ANGPT1	0.1018125	6.9548761	1.43319	0.185643	0.49578	-5.437388
MCM3	0.1161045	11.381687	1.4329855	0.1856998	0.49578	-5.437645
PSMD13	0.124088	8.1576176	1.4329532	0.1857088	0.49578	-5.437686
ROPN1B	-0.094497	6.8786617	-1.432393	0.1858644	0.49601	-5.43839
SLC35B2	0.2018284	9.08281	1.4322291	0.18591	0.49601	-5.438596
CAND2	-0.095284	6.8495388	-1.432215	0.1859138	0.49601	-5.438613
GPT2	-0.104547	9.8925847	-1.432094	0.1859475	0.49601	-5.438765
GBF1	0.1148952	7.6858645	1.4320355	0.1859638	0.49601	-5.438839
ALPK2	-0.103153	6.9796793	-1.430382	0.186424	0.49714	-5.440914
ZNF438	-0.111815	7.3987499	-1.430155	0.1864874	0.49722	-5.4412
METTL23	-0.106211	8.0334855	-1.429986	0.1865345	0.49725	-5.441412
MBOAT2	0.1217576	7.312594	1.4296559	0.1866265	0.49741	-5.441826
CYCSP55	0.0995685	9.7523893	1.4294467	0.1866849	0.49744	-5.442088
PAK5	0.1039211	7.0195713	1.4293677	0.1867069	0.49744	-5.442187
RGS17	0.0863989	6.8372549	1.4290674	0.1867907	0.49754	-5.442564
FAM149B1	-0.10767	8.2721632	-1.428998	0.18681	0.49754	-5.442651
EBLN2	-0.139881	8.0732343	-1.4284	0.1869772	0.49763	-5.443401
NEMP1	0.0901552	8.7578879	1.4283505	0.1869909	0.49763	-5.443463
PRRT1	0.1284427	6.8984512	1.4282874	0.1870086	0.49763	-5.443542
ENKD1	-0.222025	8.8348227	-1.42825	0.1870189	0.49763	-5.443589
TRAT1	0.1036789	6.8250519	1.4282462	0.1870201	0.49763	-5.443594
SLC39A10	-0.118409	7.5770615	-1.428037	0.1870785	0.49763	-5.443856
KREMEN2	0.1479535	8.3365828	1.4280106	0.1870859	0.49763	-5.44389
C16orf87	-0.131906	8.9405122	-1.427837	0.1871345	0.49767	-5.444107
CHPF2	0.1247869	7.3095403	1.4275131	0.187225	0.49774	-5.444513
PKN2	0.0978388	7.5398096	1.4275087	0.1872263	0.49774	-5.444519
TTPAL	0.1248518	8.651586	1.4262923	0.1875667	0.49855	-5.446043
ASAP3	-0.147823	8.9485275	-1.425945	0.1876641	0.49872	-5.446478
ZNF23	-0.149809	7.7117907	-1.424669	0.188022	0.49958	-5.448076
TUBA1C	0.1123538	13.405053	1.4236033	0.1883213	0.50028	-5.44941
ZC4H2	-0.089812	7.2130928	-1.423318	0.1884017	0.5004	-5.449768
MTG2	0.0943814	6.9611153	1.4227398	0.1885642	0.50075	-5.45049
CHAT	-0.090835	6.7864717	-1.422384	0.1886643	0.50082	-5.450935
CSNK2A1	0.1112787	8.7074976	1.4223045	0.1886868	0.50082	-5.451035

EPSTI1	-0.153781	8.5780693	-1.422275	0.1886951	0.50082	-5.451072
GPX4	0.1274433	11.310824	1.4219973	0.1887733	0.50094	-5.451419
MSRB1	0.167988	10.261008	1.4207246	0.1891321	0.5018	-5.45301
NR2F6	0.163026	9.0701476	1.4198187	0.1893879	0.50237	-5.454142
BZW1	-0.103001	7.2686775	-1.419622	0.1894435	0.50237	-5.454388
EMC7	0.1123261	11.047553	1.4195352	0.189468	0.50237	-5.454496
GK5	0.136995	7.705224	1.4194731	0.1894855	0.50237	-5.454574
GTF2E2	-0.136789	10.940726	-1.419091	0.1895934	0.50256	-5.455051
ST13	0.1262808	9.7739827	1.4189104	0.1896446	0.50257	-5.455277
HK2	0.1026588	8.7302469	1.4187941	0.1896775	0.50257	-5.455422
SOX7	0.0857712	6.860506	1.4187234	0.1896975	0.50257	-5.45551
TROVE2	0.1793164	8.9760803	1.4182958	0.1898185	0.50269	-5.456044
SLC45A1	-0.110308	6.9041206	-1.418263	0.1898277	0.50269	-5.456085
NPHP3-AS1	-0.126169	6.8789169	-1.418067	0.1898832	0.50269	-5.45633
MYO9B	0.1595397	8.0780824	1.4180647	0.1898839	0.50269	-5.456333
MACF1	0.107612	7.3915625	1.4176413	0.1900038	0.50289	-5.456861
C10orf10	0.0957665	6.9196223	1.4175538	0.1900286	0.50289	-5.45697
ISOC1	-0.12242	10.072205	-1.417442	0.1900604	0.50289	-5.457111
CDC5L	-0.127976	8.5876474	-1.417234	0.1901191	0.50295	-5.457369
ZNF574	0.146479	7.0591624	1.4169585	0.1901973	0.50307	-5.457713
C22orf39	-0.090407	7.6590481	-1.416747	0.1902573	0.50307	-5.457977
TBK1	-0.197698	9.128519	-1.416714	0.1902667	0.50307	-5.458019
OR56A3	0.1131673	6.7841283	1.4165356	0.1903173	0.50311	-5.458241
NLGN4X	0.1015102	6.88795	1.4159608	0.1904804	0.50325	-5.458958
NDUFS3	-0.209191	12.215044	-1.415822	0.1905197	0.50325	-5.459131
GTPBP1	0.0999292	6.8441477	1.415754	0.1905391	0.50325	-5.459216
TAAR5	0.1031312	6.8998216	1.415746	0.1905414	0.50325	-5.459226
TMEM38B	-0.149829	8.1613355	-1.415739	0.1905435	0.50325	-5.459235
TPM3P9	0.1423392	7.7808398	1.415573	0.1905905	0.50329	-5.459442
MYL4	0.1038939	6.8104084	1.4152617	0.190679	0.50336	-5.45983
APEH	0.2639873	10.889375	1.415121	0.1907189	0.50336	-5.460005
NFKBID	0.1126585	7.2610129	1.415107	0.1907229	0.50336	-5.460023
TTC3	0.200891	10.523164	1.4144089	0.1909214	0.50374	-5.460893
SNORD88C	0.1046813	6.9069673	1.4141411	0.1909976	0.50374	-5.461227
RNF103	0.0960643	8.8265044	1.4141037	0.1910083	0.50374	-5.461273
FBXL15	-0.116047	7.8517407	-1.41406	0.1910207	0.50374	-5.461328
SSR3	-0.122103	7.2509849	-1.41389	0.1910692	0.50374	-5.46154
AKR1C2	-0.103683	6.8615628	-1.413859	0.1910779	0.50374	-5.461578
S100A2	-0.141748	6.8919405	-1.413754	0.1911077	0.50374	-5.461709
DNAJC3	0.1054059	7.2882202	1.4134275	0.1912008	0.50382	-5.462116
HESX1	-0.118497	6.9799798	-1.413358	0.1912206	0.50382	-5.462202
LEMD3	0.116852	9.4732647	1.4132867	0.1912409	0.50382	-5.462291
LAMC1	0.1308269	9.5508053	1.4131652	0.1912755	0.50382	-5.462443

EXOG	-0.095114	7.2124792	-1.412733	0.1913987	0.50405	-5.462981
CMTR1	0.1221915	8.1095066	1.4124217	0.1914874	0.5042	-5.463368
CLPTM1L	0.1443966	10.182189	1.4122357	0.1915405	0.50424	-5.4636
GLOD5	-0.11466	6.8751246	-1.411904	0.191635	0.50435	-5.464013
ZNF222	0.1374619	6.9483315	1.4117067	0.1916914	0.50435	-5.464259
LINC00854	-0.112685	6.9380869	-1.411676	0.1917003	0.50435	-5.464297
CDK18	0.105143	7.2894726	1.4116166	0.1917171	0.50435	-5.464371
DDX49	0.1703881	8.39197	1.4114111	0.1917758	0.50441	-5.464627
SMCP	0.131866	7.0159504	1.4112208	0.1918302	0.50442	-5.464864
ACAT1	-0.125256	10.863588	-1.411091	0.1918672	0.50442	-5.465025
MIR212	-0.101421	6.9256512	-1.410946	0.1919088	0.50442	-5.465206
TBPL1	-0.10415	10.155283	-1.410846	0.1919372	0.50442	-5.46533
PLK2	-0.189507	6.8266088	-1.410794	0.1919521	0.50442	-5.465395
NFU1	-0.118863	8.4942334	-1.410354	0.1920778	0.50459	-5.465942
RCE1	0.1727491	8.1748721	1.4102027	0.1921212	0.50459	-5.46613
ZBTB21	0.1278492	7.3435581	1.410199	0.1921222	0.50459	-5.466135
MS4A6A	0.099	6.863069	1.4099328	0.1921984	0.50463	-5.466466
NEDD4	0.1093016	7.2118322	1.4099087	0.1922053	0.50463	-5.466496
ME3	-0.087056	6.8426704	-1.409393	0.192353	0.50486	-5.467138
GSPT1	0.1011862	12.267879	1.4092343	0.1923983	0.50486	-5.467335
NKG7	0.0999241	7.1151547	1.4091336	0.1924271	0.50486	-5.46746
MOCS1	0.0874889	6.8866379	1.4091203	0.192431	0.50486	-5.467477
FAM160B1	0.1091329	8.61147	1.4086849	0.1925557	0.50503	-5.468018
PFKFB3	0.1298987	9.1348843	1.4086464	0.1925667	0.50503	-5.468066
RPL21	-0.270135	13.916632	-1.408306	0.1926644	0.50514	-5.468489
POLE	0.2229247	8.4110766	1.4081931	0.1926967	0.50514	-5.468629
CA5BP1	-0.107093	6.9122066	-1.408143	0.1927112	0.50514	-5.468692
CARHSP1	-0.210397	9.4529009	-1.408017	0.192747	0.50514	-5.468848
PARP3	-0.102979	7.734377	-1.407604	0.1928656	0.50536	-5.469361
PRR3	0.1818156	8.7771675	1.4069121	0.1930643	0.50579	-5.470221
FBXO16	-0.146219	7.2062752	-1.406595	0.1931554	0.50594	-5.470615
PER3	0.1148989	7.2317251	1.4064677	0.193192	0.50595	-5.470773
FOXN4	-0.097375	6.7838795	-1.406333	0.1932308	0.50596	-5.470941
RNF126P1	0.1012973	6.9585209	1.4052543	0.1935409	0.50668	-5.47228
IQSEC1	0.1466719	8.8556713	1.4048145	0.1936676	0.50685	-5.472826
SESN3	0.0863942	7.3234585	1.4047762	0.1936786	0.50685	-5.472873
EIF3I	0.1849619	12.139595	1.4046626	0.1937113	0.50685	-5.473014
MSMO1	-0.100262	8.6060646	-1.404274	0.1938233	0.50705	-5.473496
TOP3A	0.1708567	8.4171614	1.4038017	0.1939594	0.5071	-5.474082
YIPF4	0.1243562	8.812112	1.4037635	0.1939704	0.5071	-5.47413
MED22	0.0902694	9.1582985	1.4036155	0.1940131	0.5071	-5.474313
ZNF324B	0.1432502	7.2901892	1.4036113	0.1940143	0.5071	-5.474318
MRPL38	0.1896145	9.9846203	1.4034707	0.1940549	0.5071	-5.474493

FAM155B	-0.093145	6.9567678	-1.40337	0.194084	0.5071	-5.474618
ELMOD1	0.1056987	6.7740255	1.4033659	0.1940851	0.5071	-5.474623
ZC3H14	-0.100857	7.9806963	-1.403108	0.1941595	0.50721	-5.474942
IDI2	0.1414688	6.96565	1.4028552	0.1942325	0.50731	-5.475256
NOM1	0.1116204	7.011787	1.4026	0.1943062	0.50736	-5.475572
IL10RB	0.0977485	8.1536656	1.4025469	0.1943216	0.50736	-5.475638
TSPAN14	0.1291293	7.6489583	1.4021036	0.1944496	0.5076	-5.476188
IRF2BPL	0.1448284	7.9560989	1.4015893	0.1945983	0.50782	-5.476825
CEBPB	-0.126177	9.6688848	-1.401571	0.1946036	0.50782	-5.476848
TMPRSS3	0.1098201	6.8985802	1.4010911	0.1947424	0.50809	-5.477443
CASK	0.0908421	7.973905	1.4009117	0.1947943	0.50814	-5.477665
BICRAL	0.1216022	8.4137409	1.4007447	0.1948427	0.50815	-5.477872
GRAMD1B	-0.101893	6.8187665	-1.400545	0.1949004	0.50815	-5.478119
ADPRHL2	0.1264926	9.5561601	1.4004927	0.1949156	0.50815	-5.478184
RPS6	-0.147486	14.01162	-1.400313	0.1949678	0.50815	-5.478407
COPRS	-0.090498	10.542461	-1.400287	0.1949752	0.50815	-5.478439
UBAC2	-0.230969	8.7013173	-1.400087	0.1950332	0.50821	-5.478687
C17orf67	-0.108215	6.943984	-1.399791	0.1951188	0.50835	-5.479052
HTR2B	0.1031469	6.8644784	1.3996455	0.1951611	0.50837	-5.479233
ZDHHC1	0.1012362	6.9047457	1.3994327	0.1952228	0.50844	-5.479497
WDR66	-0.107543	8.1747664	-1.399263	0.1952721	0.50847	-5.479707
RAP1BL	-0.144487	8.2448508	-1.398955	0.1953614	0.50856	-5.480088
SIN3A	0.1258723	9.0210065	1.3989147	0.1953731	0.50856	-5.480138
TRNAU1AP	-0.131143	7.1207181	-1.398673	0.1954431	0.50863	-5.480436
TF	-0.105074	6.8239083	-1.39858	0.1954702	0.50863	-5.480552
SNORD4A	-0.170037	8.630831	-1.39794	0.1956559	0.50902	-5.481343
FUS	0.1216936	8.0631449	1.3974859	0.195788	0.50913	-5.481906
HEMK1	-0.158806	7.0067664	-1.397464	0.1957943	0.50913	-5.481932
LIN7C	-0.116689	7.3403982	-1.397434	0.1958031	0.50913	-5.48197
DNTT	-0.123381	6.8895926	-1.397223	0.1958645	0.5092	-5.482231
CYB5R2	0.1071462	6.7843118	1.3967596	0.1959992	0.50946	-5.482804
NRGN	0.0863633	7.0642396	1.3965337	0.196065	0.50954	-5.483083
TNFSF10	-0.093377	6.8568477	-1.396212	0.1961588	0.50969	-5.483482
MRPL57	-0.099749	7.420928	-1.395908	0.196247	0.5098	-5.483856
LYPLAL1	-0.112141	9.9746813	-1.39572	0.1963021	0.5098	-5.48409
CALCOCO1	0.1551148	7.0463463	1.3957084	0.1963053	0.5098	-5.484104
ZNF792	-0.121243	7.2523561	-1.395526	0.1963583	0.50985	-5.484328
NCAPG2	0.0981768	8.1753393	1.3953816	0.1964005	0.50987	-5.484507
SNAR-A1	0.2281956	8.3554859	1.3952169	0.1964486	0.50989	-5.484711
CEACAM4	-0.093619	6.8570477	-1.395106	0.1964809	0.50989	-5.484848
MPP1	-0.090217	6.8208653	-1.394784	0.1965747	0.51005	-5.485246
NFE2L1	0.1313966	8.6496458	1.3944095	0.1966841	0.51014	-5.485709
SGSH	0.1187891	7.6924512	1.3942764	0.1967229	0.51014	-5.485873

GKAP1	-0.146672	6.9508004	-1.39427	0.1967248	0.51014	-5.485881
GNA12	0.1018593	8.1307652	1.3940652	0.1967846	0.51014	-5.486134
FKBP2	0.1279954	7.9386555	1.3940603	0.196786	0.51014	-5.48614
MAP4K2	0.0970514	11.601462	1.3938851	0.1968372	0.51018	-5.486356
MUC16	-0.102035	6.8875774	-1.393237	0.1970265	0.51032	-5.487157
MAML1	0.084431	7.3480312	1.3929848	0.1971002	0.51032	-5.487468
BMS1	0.1508116	10.768175	1.3929717	0.1971041	0.51032	-5.487484
MOB3A	-0.148379	9.0151493	-1.392782	0.1971594	0.51032	-5.487718
ZNF517	0.0983242	6.9762864	1.3927702	0.197163	0.51032	-5.487733
ZBTB17	0.1451292	8.5871886	1.3927699	0.1971631	0.51032	-5.487733
LHX4	-0.100325	6.790538	-1.392736	0.197173	0.51032	-5.487775
MOB2	0.1296349	7.7825697	1.3926389	0.1972014	0.51032	-5.487895
ADAM23	0.0994274	7.9770436	1.3926274	0.1972048	0.51032	-5.487909
SDR42E1	-0.116371	7.1877965	-1.392355	0.1972845	0.51044	-5.488245
DBN1	-0.101768	6.8506736	-1.391314	0.1975892	0.51106	-5.489529
TSR2	0.087329	10.089016	1.3912404	0.1976108	0.51106	-5.48962
CD48	-0.140726	11.484862	-1.391135	0.1976418	0.51106	-5.489751
CD33	0.1039037	6.8311972	1.3910463	0.1976677	0.51106	-5.48986
MAP3K15	-0.139407	6.9699239	-1.390697	0.1977701	0.51124	-5.49029
TRPC1	-0.113519	7.2839783	-1.390462	0.197839	0.51133	-5.49058
IRF7	0.11678	7.4114158	1.3903349	0.1978763	0.51133	-5.490737
APLP1	0.0878903	6.8157022	1.3900727	0.1979532	0.51139	-5.49106
VAMP2	0.1783751	7.8814536	1.3899357	0.1979934	0.51139	-5.491229
MIR645	-0.123624	6.9282358	-1.389904	0.1980026	0.51139	-5.491268
PEX13	0.1313516	7.7608598	1.3896508	0.1980771	0.51149	-5.49158
USP8	-0.116206	8.1734356	-1.389394	0.1981525	0.51159	-5.491897
AP4B1	-0.120775	9.417808	-1.389079	0.198245	0.5116	-5.492285
ZFAND3	0.1597625	7.5953365	1.3890317	0.1982589	0.5116	-5.492343
CMA1	0.0956007	6.9792969	1.3890259	0.1982606	0.5116	-5.49235
SLC25A44	-0.18419	9.408694	-1.388589	0.1983891	0.51184	-5.492889
CEL	-0.095938	6.8883994	-1.388126	0.1985253	0.51202	-5.49346
PHOX2A	-0.125077	6.7438164	-1.38811	0.1985299	0.51202	-5.493479
LOC1009962	0.0860926	6.9353469	1.3878595	0.1986036	0.51212	-5.493787
RBM10	0.1077483	8.8490478	1.3865934	0.1989765	0.51299	-5.495346
RGS18	-0.093763	6.8269213	-1.386465	0.1990142	0.513	-5.495504
ZFX	0.1103497	7.4858695	1.3861654	0.1991027	0.51307	-5.495873
DMRTC2	-0.095149	6.7018725	-1.386109	0.1991195	0.51307	-5.495943
KHSRP	0.1351539	10.717061	1.3860115	0.1991481	0.51307	-5.496062
CAMK2D	0.1071038	7.159125	1.385814	0.1992063	0.51313	-5.496305
BTN3A1	-0.086516	7.3567228	-1.385266	0.1993681	0.51346	-5.49698
ORAI2	0.1442205	7.1766849	1.3850664	0.199427	0.51352	-5.497225
1-Mar	-0.12506	7.5541417	-1.384871	0.1994846	0.51358	-5.497465
RNGTT	-0.142108	10.026831	-1.384467	0.1996041	0.5138	-5.497962

IFIT5	-0.130868	6.9553208	-1.384195	0.1996845	0.51389	-5.498296
FRS2	-0.129392	7.5684778	-1.384111	0.1997093	0.51389	-5.4984
CPNE7	0.0981786	6.9785182	1.3839441	0.1997587	0.51392	-5.498605
GGA1	0.1179425	8.3266175	1.3836781	0.1998374	0.514	-5.498932
TAS2R39	-0.113931	6.9137162	-1.3836	0.1998604	0.514	-5.499028
FCER1G	-0.117801	6.7851234	-1.383437	0.1999087	0.51401	-5.499228
GNG4	0.1160094	6.7467375	1.3833234	0.1999423	0.51401	-5.499368
CDADC1	0.1177481	6.9180297	1.3832393	0.1999672	0.51401	-5.499471
NAMPT	-0.182335	8.2333885	-1.382781	0.200103	0.51423	-5.500034
GOLGA8G	-0.104244	6.8736406	-1.382704	0.2001258	0.51423	-5.500129
P3H3	-0.099122	6.886641	-1.382463	0.2001971	0.51424	-5.500425
OR52W1	0.1247569	6.9038693	1.3821924	0.2002773	0.51424	-5.500757
SNORA78	-0.113275	6.8498544	-1.382168	0.2002846	0.51424	-5.500788
ATP8A1	-0.085738	7.3690433	-1.381959	0.2003466	0.51424	-5.501044
LOC403312	0.0905635	6.9091658	1.3819419	0.2003516	0.51424	-5.501065
UCN	-0.122014	7.2735558	-1.381854	0.2003776	0.51424	-5.501173
RTTN	-0.150621	9.0137446	-1.381828	0.2003853	0.51424	-5.501205
ZSCAN5B	0.1021674	6.8157361	1.3817454	0.2004099	0.51424	-5.501307
TEX10	-0.0867	9.5937608	-1.381344	0.2005289	0.51441	-5.501799
NBL1	-0.091535	6.8373376	-1.381284	0.2005467	0.51441	-5.501873
IGBP1	0.1228898	9.708102	1.3809337	0.2006507	0.51445	-5.502303
C16orf89	0.094439	6.8884164	1.3808687	0.20067	0.51445	-5.502383
PSMC2	-0.124119	11.004397	-1.380866	0.2006707	0.51445	-5.502386
EVA1C	0.0986157	6.8075376	1.3798852	0.2009622	0.51504	-5.50359
CIITA	-0.127882	8.7522559	-1.379761	0.2009992	0.51504	-5.503743
SAMHD1	-0.094867	6.7500141	-1.37969	0.2010202	0.51504	-5.503829
FUT6	0.1378875	7.1708466	1.3795758	0.2010542	0.51504	-5.50397
SLC25A51	0.1799677	9.3027173	1.3795003	0.2010767	0.51504	-5.504062
PAPD4	-0.153166	9.5823448	-1.379334	0.2011262	0.51508	-5.504267
LUZP6	0.1637202	6.9724409	1.3790199	0.2012196	0.51523	-5.504652
LOC401357	0.11817	7.986669	1.3788543	0.2012688	0.51526	-5.504855
ANXA2P3	-0.106152	6.8798246	-1.378334	0.2014239	0.51557	-5.505493
MTPAP	0.1020341	7.9264166	1.3781937	0.2014656	0.51558	-5.505665
ALX3	0.1335616	6.9049622	1.3780887	0.2014969	0.51558	-5.505793
BCAT1	0.2485899	11.256143	1.3777054	0.2016111	0.5157	-5.506263
CPNE5	0.1238141	7.4180312	1.37767	0.2016216	0.5157	-5.506307
ZNF785	0.1048286	7.0045495	1.3775668	0.2016524	0.5157	-5.506433
CLEC11A	0.1511605	7.791954	1.3774569	0.2016852	0.5157	-5.506568
CCDC84	-0.113386	7.5781543	-1.377258	0.2017446	0.51576	-5.506812
PREPL	-0.170797	8.7965661	-1.376824	0.2018741	0.51588	-5.507344
LAMP3	0.1001501	7.150658	1.3765731	0.2019489	0.51588	-5.507651
CFAP20	-0.092945	9.8183888	-1.376275	0.2020378	0.51588	-5.508016
MTMR10	-0.105542	7.9199665	-1.376188	0.2020638	0.51588	-5.508123

MKNK1	-0.104556	7.666624	-1.376153	0.2020742	0.51588	-5.508165
F2RL3	0.1090572	6.6992923	1.3760429	0.2021072	0.51588	-5.508301
RNF4	0.0941899	9.0164416	1.375967	0.2021299	0.51588	-5.508393
TPT1-AS1	-0.140897	7.3007302	-1.375829	0.2021712	0.51588	-5.508563
ARHGAP11B	0.249907	7.6471535	1.3757974	0.2021805	0.51588	-5.508601
JTB	0.2037725	12.75167	1.3756508	0.2022244	0.51588	-5.508781
ITM2B	0.1079738	8.1128639	1.3756261	0.2022317	0.51588	-5.508811
C12orf49	0.1137321	8.2592525	1.3755749	0.202247	0.51588	-5.508874
PI15	0.1139768	7.079495	1.3755524	0.2022537	0.51588	-5.508901
ZNF224	-0.088536	6.7167288	-1.375335	0.2023186	0.5159	-5.509167
NACC1	0.0967649	7.0439258	1.3752559	0.2023424	0.5159	-5.509264
DPH6	-0.095941	7.6214394	-1.375106	0.2023871	0.5159	-5.509447
BAZ1A	0.1371239	9.0223752	1.3750585	0.2024014	0.5159	-5.509506
SLC9B2	-0.093342	7.3499489	-1.374894	0.2024507	0.51594	-5.509708
YPEL1	-0.113459	6.9685749	-1.374668	0.2025184	0.51594	-5.509984
HAUS8	-0.095826	8.403609	-1.374628	0.2025301	0.51594	-5.510033
FOXP1-IT1	-0.155056	8.1648751	-1.374539	0.2025569	0.51594	-5.510142
SLAMF9	0.1053733	6.9670629	1.3741938	0.2026602	0.51594	-5.510564
NCKAP5	-0.089671	6.8655153	-1.374184	0.202663	0.51594	-5.510576
SPAG5	-0.113828	7.5811518	-1.374124	0.2026812	0.51594	-5.51065
FAM231C	-0.123032	7.1769468	-1.373993	0.2027202	0.51594	-5.51081
TMIE	-0.097568	6.8888174	-1.373916	0.2027435	0.51594	-5.510905
PRKD2	0.0877255	7.2589103	1.373796	0.2027793	0.51594	-5.511051
RPS5	0.1268684	14.194062	1.3736794	0.2028143	0.51594	-5.511194
TRAPPC4	-0.097456	10.353927	-1.37359	0.2028411	0.51594	-5.511303
PSMD14	-0.212759	10.738978	-1.37237	0.2032069	0.51664	-5.512796
PIP5K1C	0.1154122	7.5764191	1.3721501	0.2032729	0.51664	-5.513064
GOLGA2P5	-0.103735	6.9550094	-1.372118	0.2032824	0.51664	-5.513103
FAM78B	0.1189639	6.9583846	1.372079	0.2032943	0.51664	-5.513151
NKAP	-0.117511	6.9931404	-1.372072	0.2032964	0.51664	-5.51316
DDAH2	-0.110693	6.8756447	-1.371891	0.2033505	0.51664	-5.51338
SPATA9	0.1091837	6.8619377	1.3718508	0.2033628	0.51664	-5.51343
ERGIC1	0.1367696	7.843445	1.371633	0.2034282	0.51669	-5.513696
RDX	0.1125131	6.8570504	1.371545	0.2034546	0.51669	-5.513804
REEP4	0.1376966	7.5595336	1.3709009	0.2036482	0.51709	-5.514591
PPP1R14A	0.1089784	7.6589483	1.3705445	0.2037554	0.51721	-5.515026
GPC3	-0.092292	6.7709003	-1.370505	0.2037673	0.51721	-5.515075
TNPO1	0.2022391	8.6991651	1.3700843	0.2038938	0.51745	-5.515589
RABEPK	-0.085898	12.024055	-1.369614	0.2040356	0.51759	-5.516164
FERMT1	0.1203482	6.8790418	1.3695494	0.2040549	0.51759	-5.516242
HEG1	0.1995916	8.4670666	1.369485	0.2040743	0.51759	-5.516321
TOMM20L	0.093168	6.8072882	1.3693189	0.2041243	0.51759	-5.516523
GSTK1	0.0861093	10.777351	1.3693037	0.2041289	0.51759	-5.516542

CCSER2	0.1126409	7.7543206	1.3682949	0.204433	0.51805	-5.517773
ELMO2	0.1053413	8.1296367	1.368097	0.2044927	0.51805	-5.518015
NMT2	-0.119151	7.5324839	-1.36802	0.204516	0.51805	-5.518109
TTTY2B	-0.106296	6.9259352	-1.36787	0.2045614	0.51805	-5.518293
LOC729458	-0.089208	6.7220045	-1.367713	0.2046086	0.51805	-5.518483
RHBDD3	0.1495971	7.7952374	1.3677025	0.2046118	0.51805	-5.518496
CPOX	-0.12207	8.2115867	-1.367597	0.2046438	0.51805	-5.518626
VDAC3	-0.132209	11.531482	-1.367573	0.2046507	0.51805	-5.518654
RPS27	-0.128244	13.759994	-1.367552	0.2046572	0.51805	-5.51868
PILRA	-0.121436	7.2738508	-1.367306	0.2047316	0.51805	-5.51898
LRRC40	-0.125439	7.4303227	-1.367076	0.2048008	0.51805	-5.51926
DZIP1L	-0.094938	6.9703343	-1.366959	0.2048363	0.51805	-5.519403
ARRDC5	-0.086665	6.710407	-1.366911	0.2048507	0.51805	-5.519461
ANKRD13C	-0.106768	8.0295952	-1.366864	0.204865	0.51805	-5.519519
EHMT2	0.1573816	7.5211912	1.366857	0.2048672	0.51805	-5.519528
HECTD3	-0.091754	8.3450225	-1.366795	0.204886	0.51805	-5.519604
CBFB	0.0923938	8.2607	1.3665334	0.204965	0.51805	-5.519922
STK38L	-0.125723	7.167895	-1.366525	0.2049674	0.51805	-5.519932
FGFR1OP	-0.134665	7.8051991	-1.366416	0.2050006	0.51805	-5.520066
KCNJ4	0.1060826	7.0028402	1.3663592	0.2050176	0.51805	-5.520135
NUDT9	-0.096401	7.8078985	-1.365996	0.2051274	0.51823	-5.520577
RFXANK	0.1257765	8.7093646	1.3657205	0.2052108	0.51835	-5.520913
MED9	0.1637034	8.0556674	1.3652538	0.2053521	0.51861	-5.521482
STOML1	0.0984139	7.2387984	1.3651568	0.2053815	0.51861	-5.5216
MFSD12	0.0911749	7.5059712	1.364645	0.2055365	0.51891	-5.522224
TDRG1	-0.105983	6.8355183	-1.364251	0.205656	0.51912	-5.522704
SNX2	-0.187993	10.208348	-1.363839	0.2057808	0.51926	-5.523205
FBXO24	-0.08739	6.8102693	-1.363829	0.2057841	0.51926	-5.523218
FKBP15	0.1647262	8.2303126	1.363565	0.205864	0.51935	-5.523539
MRPL44	-0.088234	9.4279929	-1.363486	0.205888	0.51935	-5.523635
LINC00638	-0.084185	6.7879742	-1.363144	0.2059918	0.51952	-5.524052
PRRC2B	0.1089262	7.719654	1.3624499	0.2062027	0.51996	-5.524897
DMXL1	-0.098201	6.9138509	-1.361754	0.2064142	0.52032	-5.525744
ZNF143	0.0981362	8.404424	1.3617418	0.2064179	0.52032	-5.525758
HYAL3	-0.11041	7.9150679	-1.361453	0.2065059	0.52041	-5.52611
EPM2A	-0.110693	7.5493299	-1.361355	0.2065355	0.52041	-5.526228
PQLC2	-0.097302	6.8276883	-1.361278	0.2065589	0.52041	-5.526322
TMED1	-0.212033	9.2994575	-1.360727	0.2067269	0.52058	-5.526993
UBA6	-0.169666	9.0610438	-1.360674	0.2067429	0.52058	-5.527057
VTA1	-0.124303	8.0923794	-1.360368	0.2068361	0.52058	-5.527429
TBC1D1	-0.11125	7.0504114	-1.360365	0.206837	0.52058	-5.527433
SYT16	0.1015226	6.941416	1.360329	0.206848	0.52058	-5.527477
PSMD5	-0.114128	8.5648955	-1.360073	0.2069261	0.52058	-5.527788

SLC23A1	-0.097324	7.0657603	-1.360021	0.2069419	0.52058	-5.527851
SIAH1	-0.098722	8.3680144	-1.360013	0.2069444	0.52058	-5.527861
KIAA0930	0.0918653	6.9819199	1.3599319	0.206969	0.52058	-5.527959
USP33	-0.116563	7.6088854	-1.359605	0.2070685	0.52058	-5.528356
ILK	0.0916357	8.3575741	1.3595948	0.2070718	0.52058	-5.528369
CCDC18	-0.120966	7.4439799	-1.359568	0.2070799	0.52058	-5.528401
VTI1A	0.119811	7.0131301	1.3595314	0.2070911	0.52058	-5.528446
TRPA1	0.0918038	6.7958473	1.3594034	0.2071302	0.52059	-5.528602
SPHAR	0.0962388	6.8714837	1.3592694	0.207171	0.5206	-5.528765
UBASH3B	0.112929	7.1436608	1.3584495	0.2074213	0.52102	-5.529761
ERF	0.1307336	7.7893426	1.3584005	0.2074363	0.52102	-5.52982
EBPL	-0.120394	10.355887	-1.358376	0.2074439	0.52102	-5.529851
TMEM150B	0.0844059	6.9115312	1.3579683	0.2075683	0.52124	-5.530345
CNTN3	-0.10632	6.7872725	-1.357358	0.2077548	0.52162	-5.531086
LOXL3	0.0967578	6.8702426	1.3571816	0.2078089	0.52167	-5.5313
KIAA0556	0.1330026	7.7397302	1.3567663	0.2079359	0.52184	-5.531805
NRBP2	-0.085323	6.8926809	-1.356728	0.2079476	0.52184	-5.531851
B4GALT1	-0.103867	7.9053332	-1.356439	0.2080361	0.5219	-5.532202
ADAT2	-0.109759	7.2167774	-1.356406	0.2080461	0.5219	-5.532242
UNCX	0.0844739	6.8679733	1.3561151	0.2081353	0.52204	-5.532595
CFAP47	0.1379928	6.9655681	1.3552369	0.2084044	0.52253	-5.53366
FTH1P2	0.118078	9.2740435	1.3550715	0.2084552	0.52253	-5.533861
PQLC1	0.146407	11.151137	1.3550596	0.2084588	0.52253	-5.533875
SHPK	0.1111925	9.8950148	1.3549152	0.2085031	0.52253	-5.53405
INTS14	-0.093637	7.8724633	-1.354885	0.2085123	0.52253	-5.534087
MORF4L2	-0.142887	10.940161	-1.35458	0.2086058	0.52268	-5.534456
DZIP3	-0.106212	7.0388649	-1.354081	0.2087591	0.52297	-5.535062
AGRN	0.1243008	7.5190915	1.3537211	0.2088697	0.52312	-5.535498
CRADD	-0.105405	7.9400386	-1.353589	0.2089104	0.52312	-5.535658
PTPN12	-0.13153	7.6107576	-1.353542	0.2089247	0.52312	-5.535715
LRMP	-0.121217	11.643572	-1.353232	0.2090199	0.52327	-5.53609
PCDHB16	-0.109773	6.9466588	-1.353044	0.2090778	0.52332	-5.536319
KATNAL2	-0.128231	7.0838464	-1.352397	0.2092767	0.52373	-5.537102
GAREM1	0.1165	7.1454438	1.3521106	0.2093649	0.52379	-5.537449
ATAD3B	0.1824352	7.8701477	1.352023	0.2093919	0.52379	-5.537555
PRPH	-0.12184	6.7466336	-1.351951	0.2094141	0.52379	-5.537643
NUDT5	-0.101028	10.766907	-1.351749	0.2094761	0.52379	-5.537886
PCCB	-0.100234	10.968596	-1.351676	0.2094988	0.52379	-5.537976
LTBP1	0.0975748	6.9488851	1.3516164	0.2095171	0.52379	-5.538048
CYP4X1	0.165867	7.0617122	1.3511494	0.209661	0.52401	-5.538613
VASH2	0.0920768	6.8406288	1.3510114	0.2097036	0.52401	-5.53878
TGFB3	-0.08563	6.882906	-1.350979	0.2097134	0.52401	-5.538819
AKAP12	0.1280966	6.9088081	1.3507664	0.2097791	0.52409	-5.539076

PRR5-ARHG	0.0967429	7.0635342	1.3506318	0.2098206	0.5241	-5.539239
THBD	-0.112039	6.7892003	-1.350287	0.2099269	0.52428	-5.539656
ZNF503	0.0972584	6.9296595	1.349985	0.2100201	0.52438	-5.540022
MED10	-0.144605	10.405511	-1.349922	0.2100396	0.52438	-5.540098
MAPK3	0.1099214	9.2129747	1.3496017	0.2101385	0.52454	-5.540486
CHCHD1	-0.120435	8.4045981	-1.348938	0.2103435	0.52484	-5.541288
ENPP7	0.0855593	6.9201885	1.3487577	0.2103992	0.52484	-5.541506
PTGFRN	0.0889336	6.8209321	1.3485796	0.2104543	0.52484	-5.541722
PRKY	-0.169994	7.3773273	-1.348533	0.2104688	0.52484	-5.541778
DIP2B	0.1204868	8.7731668	1.3484618	0.2104907	0.52484	-5.541864
CCNB1IP1	-0.099786	9.5041514	-1.348337	0.2105295	0.52484	-5.542015
PCDHGC4	-0.099896	6.8692813	-1.348271	0.2105497	0.52484	-5.542094
NIPAL4	-0.09838	6.7961657	-1.348252	0.2105556	0.52484	-5.542117
CLEC20A	0.1095477	6.8923212	1.3481412	0.2105899	0.52484	-5.542252
BMP8B	-0.155841	7.8209077	-1.348049	0.2106186	0.52484	-5.542364
RFX3	0.0868299	6.999998	1.3478065	0.2106935	0.52491	-5.542656
ZBTB4	0.0993618	7.5670288	1.3476897	0.2107296	0.52491	-5.542797
PNKD	0.1678993	8.5072381	1.3476099	0.2107543	0.52491	-5.542894
DYNC1LI2	-0.156409	10.066349	-1.34742	0.2108129	0.52496	-5.543122
FAM91A1	0.088446	7.8857923	1.3468802	0.2109803	0.52515	-5.543775
HERC4	-0.122948	7.6720922	-1.346869	0.2109837	0.52515	-5.543788
ZNF608	-0.122042	7.4785258	-1.346657	0.2110495	0.52515	-5.544045
CAMKK2	0.2081686	7.9759635	1.3466041	0.2110659	0.52515	-5.544109
INF2	0.0877648	8.3589286	1.3465986	0.2110676	0.52515	-5.544115
ACTR8	0.1171141	7.7513359	1.3461693	0.2112007	0.52525	-5.544634
PRR32	0.1318112	8.6634243	1.3458624	0.2112958	0.52525	-5.545004
PNOC	0.0940782	7.5624287	1.3458313	0.2113055	0.52525	-5.545042
SLC46A2	0.0872711	6.9055311	1.3457245	0.2113386	0.52525	-5.545171
NDUFS6	-0.117984	6.942532	-1.345423	0.2114322	0.52525	-5.545535
RPS3A	-0.08836	13.659629	-1.345383	0.2114447	0.52525	-5.545583
PTPN7	0.1036507	7.4108962	1.3452258	0.2114934	0.52525	-5.545773
PDPK1	0.0901591	7.6468544	1.3451205	0.2115261	0.52525	-5.5459
ZNF385D	0.1072478	6.8963372	1.3449843	0.2115684	0.52525	-5.546064
CD1E	-0.093521	6.9156389	-1.344892	0.2115972	0.52525	-5.546176
PLEKHO1	-0.111798	7.8648003	-1.344885	0.2115993	0.52525	-5.546184
PKP2	0.0898366	6.7748478	1.3448807	0.2116006	0.52525	-5.546189
CDC14C	-0.111927	7.0744556	-1.344708	0.2116542	0.52525	-5.546398
PGGHG	-0.232693	7.6935256	-1.344704	0.2116554	0.52525	-5.546402
HPD	0.0986058	6.827411	1.3444797	0.2117252	0.52525	-5.546673
EGLN1	0.1026071	7.6737259	1.3444462	0.2117356	0.52525	-5.546714
CSE1L	0.1279569	10.304051	1.344323	0.2117739	0.52525	-5.546862
NDUFC1	-0.148967	9.5291201	-1.344213	0.211808	0.52525	-5.546995
ATP8A2	-0.102779	6.8987317	-1.344166	0.2118227	0.52525	-5.547051

GNE	-0.130569	9.2935246	-1.344153	0.2118266	0.52525	-5.547067
RACK1	-0.107556	14.374304	-1.343844	0.2119229	0.5254	-5.547441
EBP	-0.150616	9.8861855	-1.343144	0.2121406	0.52585	-5.548284
ROBO3	0.0900791	6.8795047	1.342772	0.2122565	0.52605	-5.548733
FAM168A	0.1189292	8.6015398	1.3423057	0.2124018	0.5263	-5.549295
SNORD101	-0.147093	6.9979447	-1.342209	0.2124317	0.5263	-5.549411
PRELID3A	-0.111628	7.9162566	-1.341927	0.2125198	0.52643	-5.549751
KIFC2	-0.217406	8.3469864	-1.34169	0.2125935	0.52647	-5.550036
ST3GAL3	0.1080985	7.3621645	1.3416437	0.2126081	0.52647	-5.550093
KLKP1	0.0818444	6.8008349	1.3412961	0.2127165	0.52663	-5.550511
OCLM	0.0836301	6.8621933	1.3412097	0.2127435	0.52663	-5.550615
MBTD1	0.1212228	7.6555114	1.3407809	0.2128773	0.52682	-5.551132
MRPL24	0.114777	10.945937	1.3407313	0.2128928	0.52682	-5.551192
CRYZ	-0.178038	10.422587	-1.340606	0.2129319	0.52683	-5.551343
DTX1	0.2086856	9.2819012	1.3402289	0.2130497	0.52696	-5.551797
FXN	0.0954778	7.0780503	1.3402032	0.2130578	0.52696	-5.551828
BUD13	0.1030895	8.5018241	1.3400839	0.2130951	0.52696	-5.551971
C6orf223	0.1234262	7.3977327	1.3398396	0.2131714	0.52706	-5.552265
PRKACB	-0.115665	7.5042974	-1.339223	0.2133642	0.52745	-5.553008
SPTY2D1	0.0875883	7.8925216	1.3391019	0.2134021	0.52745	-5.553153
SLC25A30	-0.110656	6.7823074	-1.338794	0.2134984	0.5276	-5.553524
ADPGK	-0.122746	8.9234933	-1.338052	0.2137308	0.5278	-5.554417
ZBTB20	0.1228553	7.3557931	1.3379654	0.2137579	0.5278	-5.554521
HLA-DMB	-0.110387	11.865238	-1.337934	0.2137676	0.5278	-5.554558
RSBN1L	-0.162732	8.5653411	-1.337909	0.2137757	0.5278	-5.554589
ARAF	-0.191243	9.4738596	-1.3379	0.2137784	0.5278	-5.554599
MMADHC	-0.088453	10.950147	-1.337812	0.2138059	0.5278	-5.554705
ST20	-0.089886	6.9332078	-1.337674	0.2138493	0.5278	-5.554871
ELL2	0.1112764	6.7798373	1.3375668	0.2138828	0.5278	-5.555
PSMG4	-0.144267	9.9302614	-1.337496	0.2139052	0.5278	-5.555086
ABHD13	-0.085325	6.8510819	-1.337324	0.213959	0.52785	-5.555292
LGALS3	-0.088207	6.7914539	-1.337129	0.21402	0.52788	-5.555526
CHI3L2	-0.115428	10.801071	-1.337043	0.214047	0.52788	-5.55563
PGBD1	0.1062183	7.126588	1.3367826	0.2141287	0.52791	-5.555943
LINC01098	-0.110822	7.0623388	-1.336718	0.214149	0.52791	-5.55602
FUCA1	0.1082139	9.4306699	1.3365659	0.2141967	0.52791	-5.556203
MTOR	0.183672	10.021103	1.3365434	0.2142038	0.52791	-5.55623
KCTD17	-0.100843	7.3944326	-1.336031	0.2143647	0.52822	-5.556846
CARMIL2	0.1404518	7.769474	1.3358356	0.214426	0.52828	-5.557081
EIF3D	0.1323777	12.009561	1.3356073	0.2144978	0.52836	-5.557355
TNFSF15	0.104301	7.3417567	1.3351825	0.2146313	0.52836	-5.557865
ZNF354A	-0.104805	7.0336935	-1.335134	0.2146464	0.52836	-5.557923
P4HA2	-0.09104	7.5863797	-1.335116	0.2146521	0.52836	-5.557945

SSR2	0.096807	10.100739	1.3349643	0.2146999	0.52836	-5.558127
ZNF211	-0.091472	6.7794769	-1.334947	0.2147053	0.52836	-5.558148
RBM4	-0.111227	9.0809077	-1.334916	0.214715	0.52836	-5.558185
LMBR1L	0.120043	6.9306499	1.334821	0.214745	0.52836	-5.558299
TBC1D25	0.0917952	7.0770675	1.3345494	0.2148304	0.52848	-5.558626
MAPKAP1	0.1179857	9.1968808	1.3342785	0.2149156	0.52851	-5.558951
TARS2	0.1921113	8.3041026	1.3342773	0.214916	0.52851	-5.558952
PIPSL	0.1183232	8.9895665	1.3340297	0.214994	0.52856	-5.55925
SLC6A16	-0.086303	7.1105118	-1.333984	0.2150082	0.52856	-5.559304
SGF29	-0.096924	7.5191562	-1.332098	0.2156029	0.52993	-5.561567
MIR106A	-0.088796	6.9189774	-1.331785	0.2157016	0.53008	-5.561942
TPMT	0.1055782	9.4524458	1.3316184	0.2157543	0.53012	-5.562142
APOBEC3B	-0.090348	6.9602265	-1.331406	0.2158213	0.53015	-5.562397
SRCAP	-0.097472	6.9936429	-1.331356	0.2158371	0.53015	-5.562457
SERF2	-0.109127	10.542165	-1.330958	0.2159627	0.53037	-5.562933
CCDC60	0.1262975	7.0367925	1.3306951	0.216046	0.53047	-5.563249
GLYCTK	0.095671	7.3925686	1.3305029	0.2161067	0.53047	-5.563479
NABP2	0.1695979	9.3381156	1.3304794	0.2161142	0.53047	-5.563507
PPP1R3B	0.1039218	6.7291416	1.3302734	0.2161793	0.53053	-5.563754
TECPR1	0.1016815	7.1522237	1.330175	0.2162105	0.53053	-5.563872
TUSC1	-0.081191	6.7338881	-1.330017	0.2162603	0.53056	-5.564061
CAPN1	0.1501001	9.4036178	1.3293952	0.2164572	0.53073	-5.564806
PPP1R26	0.0956998	6.7242969	1.3293492	0.2164718	0.53073	-5.564861
PPM1M	-0.119845	7.7745906	-1.329015	0.2165778	0.53073	-5.565262
BCYRN1	0.2505734	9.3904743	1.3289532	0.2165972	0.53073	-5.565336
SLC35E2B	0.1313968	9.3573287	1.3289336	0.2166034	0.53073	-5.565359
ENG	-0.104176	6.7276465	-1.328924	0.2166065	0.53073	-5.565371
DAB2IP	-0.09563	6.9289726	-1.328782	0.2166513	0.53073	-5.56554
BST1	-0.081499	6.7691744	-1.328766	0.2166564	0.53073	-5.565559
UBE2J1	-0.175901	11.717843	-1.328664	0.2166887	0.53073	-5.565681
C16orf52	0.0891152	7.657056	1.3285345	0.2167299	0.53073	-5.565837
TBRG1	-0.116153	6.9729519	-1.328489	0.2167443	0.53073	-5.565891
CDIPT	0.0826687	7.5534758	1.3284269	0.216764	0.53073	-5.565966
CDC25A	0.0967756	8.6930101	1.3282758	0.2168119	0.53076	-5.566147
HINT2	0.1197405	9.5919044	1.3274441	0.2170758	0.53121	-5.567142
NR3C2	0.0839724	7.2882536	1.3273664	0.2171004	0.53121	-5.567235
TLCD1	0.1083748	8.7793672	1.3273458	0.217107	0.53121	-5.567259
FANCA	-0.086511	6.9653968	-1.327181	0.2171594	0.53125	-5.567457
AP4M1	-0.088179	6.97409	-1.32662	0.2173375	0.53148	-5.568128
ATG101	0.1450271	9.22565	1.3266115	0.2173402	0.53148	-5.568138
C20orf181	-0.105534	6.9156903	-1.326546	0.217361	0.53148	-5.568216
DARS2	-0.164789	9.6895107	-1.326423	0.2173999	0.53148	-5.568363
TRIM10	-0.09752	6.9050569	-1.326016	0.2175295	0.5317	-5.56885

IGSF10	0.0977398	6.8551149	1.3259198	0.2175601	0.5317	-5.568965
LOC1009964	-0.084287	6.8566832	-1.325784	0.2176032	0.53171	-5.569127
LILRB1	-0.184113	11.673964	-1.32559	0.2176648	0.53177	-5.569359
STOML2	0.10941	12.013203	1.3254511	0.2177091	0.53179	-5.569525
UBTFL2	-0.094261	6.9688398	-1.324987	0.2178567	0.53206	-5.570079
HORMAD1	0.1581251	6.8722247	1.3247415	0.217935	0.53215	-5.570373
G2E3	-0.18848	7.3345033	-1.32451	0.2180089	0.53215	-5.57065
CLEC17A	0.1132276	6.9261884	1.3244418	0.2180305	0.53215	-5.570731
RANBP9	-0.094351	7.2743496	-1.324424	0.2180363	0.53215	-5.570753
LTF	0.0983275	7.0181719	1.3241291	0.2181301	0.53229	-5.571105
STRN4	0.0952609	7.4067552	1.3239388	0.2181908	0.53235	-5.571332
ORC4	-0.096459	7.1902109	-1.32365	0.2182828	0.53248	-5.571677
HRASLS2	0.1201175	7.2361293	1.323177	0.2184337	0.53273	-5.572242
TNFRSF14	-0.165161	10.826341	-1.323099	0.2184585	0.53273	-5.572334
PRPF3	0.1347068	9.8033283	1.3228094	0.218551	0.53287	-5.572681
ADRA2A	0.1036509	7.3977765	1.3226199	0.2186115	0.53287	-5.572907
HIF1A	-0.142924	8.2513294	-1.322582	0.2186236	0.53287	-5.572952
MFSD14C	0.3252404	10.316881	1.3221107	0.2187742	0.53315	-5.573514
LGALS8	0.0915977	7.0266253	1.3218947	0.2188432	0.53322	-5.573772
SLC16A4	-0.094482	6.8493251	-1.321744	0.2188913	0.53325	-5.573952
RSAD2	0.0832236	6.8699632	1.3215439	0.2189553	0.53329	-5.574191
PANK1	-0.086797	7.6638904	-1.321388	0.2190053	0.53329	-5.574377
TCF19	0.0844654	7.1863857	1.3213016	0.2190328	0.53329	-5.57448
KXD1	0.1278813	9.8603875	1.3212353	0.219054	0.53329	-5.574559
GNA14	0.0886779	6.8731421	1.3208647	0.2191726	0.53349	-5.575001
DCK	-0.118888	8.6364398	-1.32073	0.2192156	0.53351	-5.575161
CTSK	-0.098858	6.891192	-1.320463	0.219301	0.53359	-5.575479
MIR591	-0.1228	6.7865973	-1.320377	0.2193288	0.53359	-5.575583
CLIP1	0.1019532	7.9024509	1.3202839	0.2193585	0.53359	-5.575693
TYW5	-0.091891	6.8887723	-1.320095	0.219419	0.53365	-5.575919
FAM178B	-0.11419	6.9502357	-1.31997	0.2194589	0.53365	-5.576067
MRPL4	0.1273835	9.1144773	1.3198221	0.2195064	0.53365	-5.576244
ZNF766	0.1258657	7.6462279	1.3196675	0.2195559	0.53365	-5.576428
TMX3	-0.138533	8.273931	-1.319632	0.2195672	0.53365	-5.57647
RAMP2-AS1	0.1913811	11.906961	1.3193555	0.219656	0.53374	-5.5768
LOC606724	0.1307546	8.6319977	1.3192941	0.2196756	0.53374	-5.576873
WDR25	0.1065913	7.5197624	1.3190097	0.2197668	0.53375	-5.577212
GID8	0.1266934	10.428435	1.3188637	0.2198137	0.53375	-5.577386
DOK4	-0.091068	7.071416	-1.31876	0.219847	0.53375	-5.57751
PIK3C2A	0.1430553	7.820742	1.3186778	0.2198733	0.53375	-5.577607
FOXL2NB	0.0925622	6.9083746	1.3186392	0.2198857	0.53375	-5.577653
UBP1	0.1278581	10.357046	1.3185968	0.2198993	0.53375	-5.577704
EMC9	-0.215273	8.5708409	-1.318384	0.2199676	0.5338	-5.577957

RPL11	-0.114096	13.972083	-1.318304	0.2199934	0.5338	-5.578053
COQ10B	-0.115965	9.4775799	-1.317733	0.2201765	0.53411	-5.578732
PDP2	0.0923886	7.3775848	1.3176769	0.2201946	0.53411	-5.578799
CACHD1	-0.086713	6.7837652	-1.317339	0.2203033	0.53425	-5.579202
ZIC3	0.0986296	6.7809253	1.3172662	0.2203266	0.53425	-5.579288
TCF3	0.2249714	9.7513755	1.3168518	0.2204598	0.53442	-5.579782
ILF3	0.1361207	9.1276026	1.3167911	0.2204793	0.53442	-5.579854
UMPS	-0.093807	7.4678459	-1.316707	0.2205063	0.53442	-5.579953
SKP1	-0.081959	9.493535	-1.316409	0.2206022	0.53457	-5.580308
TFAM	-0.133874	10.467681	-1.315866	0.220777	0.53486	-5.580954
ZNF30	-0.082207	6.7301955	-1.315803	0.2207973	0.53486	-5.581029
DLEU2	-0.144888	7.0060959	-1.315528	0.2208857	0.53499	-5.581356
C5orf22	-0.103561	7.8231096	-1.315245	0.220977	0.5351	-5.581693
RPL35A	-0.115414	14.300724	-1.315157	0.2210053	0.5351	-5.581797
PDE1B	0.0819107	6.8607358	1.3147444	0.2211384	0.53521	-5.582288
SLC11A1	-0.103529	6.7934826	-1.314692	0.2211552	0.53521	-5.58235
BCAS1	-0.100745	6.9803621	-1.314523	0.2212096	0.53521	-5.582551
PIP5K1B	-0.127258	6.9439834	-1.314379	0.2212563	0.53521	-5.582723
TMEM135	-0.173916	8.4912231	-1.314357	0.2212633	0.53521	-5.582749
ACKR4	-0.119598	7.2084496	-1.314328	0.2212728	0.53521	-5.582784
TBX19	-0.088517	6.8980984	-1.313631	0.2214976	0.53567	-5.583612
BRSK1	0.1088028	7.1514209	1.3133179	0.2215987	0.5358	-5.583983
DDX60	-0.092093	6.7852979	-1.313164	0.2216485	0.5358	-5.584167
GTF2IRD2B	-0.0949	8.0802797	-1.313126	0.2216607	0.5358	-5.584212
DNAL1	-0.119425	7.23524	-1.312856	0.2217478	0.53592	-5.584532
FRAT1	0.0812402	6.8811607	1.3125349	0.2218516	0.53608	-5.584913
MUC1	-0.087058	6.8489655	-1.312378	0.2219023	0.53611	-5.585099
ALDH5A1	-0.116804	9.8055361	-1.311962	0.2220368	0.53635	-5.585593
RNF7	-0.091639	9.5931394	-1.311271	0.2222607	0.53658	-5.586414
CES1	-0.081444	6.8141667	-1.311228	0.2222746	0.53658	-5.586465
GGA3	0.089628	7.4208946	1.3112174	0.2222779	0.53658	-5.586477
MYB	-0.143314	10.301627	-1.311195	0.2222851	0.53658	-5.586504
KCNK13	0.1060356	6.939038	1.3109112	0.2223771	0.53658	-5.586841
FZD4	0.0971912	6.7630523	1.310904	0.2223794	0.53658	-5.586849
AK4	0.092224	9.7216685	1.3108696	0.2223905	0.53658	-5.58689
RTN4IP1	0.0948693	8.9816202	1.3104873	0.2225144	0.53679	-5.587344
ZNF322P1	-0.11825	7.1708979	-1.310295	0.2225768	0.53685	-5.587572
STC2	0.0832155	6.8106922	1.3101866	0.2226119	0.53685	-5.5877
NUDT13	-0.0948	6.9048117	-1.310043	0.2226584	0.53687	-5.58787
COMMD1	-0.156624	10.567756	-1.309897	0.2227058	0.5369	-5.588044
SSSCA1	0.1089066	8.2780525	1.3095846	0.2228071	0.53706	-5.588414
CFAP61	-0.112094	6.8873727	-1.309154	0.2229467	0.5373	-5.588924
AKAP17A	0.1100697	9.5545969	1.3087389	0.2230816	0.53754	-5.589417

METTL18	-0.126215	7.5505704	-1.308577	0.2231342	0.53758	-5.589609
IQCC	-0.172409	8.6266815	-1.307775	0.2233948	0.538	-5.590559
NT5DC2	0.2576893	9.1105503	1.3076347	0.2234405	0.538	-5.590725
PYCARD	-0.085888	7.6168327	-1.307277	0.2235568	0.538	-5.591149
UBE2W	-0.114014	7.4652202	-1.307242	0.2235684	0.538	-5.591191
RNF175	0.0889411	6.8696799	1.3072234	0.2235743	0.538	-5.591212
ACP6	-0.091529	7.7776068	-1.306952	0.2236627	0.538	-5.591534
ARSA	-0.090319	7.3398344	-1.306935	0.223668	0.538	-5.591553
OR3A1	0.146386	6.8821222	1.3068818	0.2236854	0.538	-5.591617
SERHL2	-0.101152	6.9435588	-1.306841	0.2236986	0.538	-5.591665
ETFDH	-0.101844	8.8410024	-1.306623	0.2237699	0.538	-5.591924
NUDT12	-0.081832	6.7577045	-1.306579	0.223784	0.538	-5.591975
MBOAT7	0.1599893	8.4309651	1.3065523	0.2237927	0.538	-5.592007
LINS1	-0.09692	7.5950608	-1.306532	0.2237992	0.538	-5.592031
ARMCX2	-0.090363	6.8060262	-1.306447	0.223827	0.538	-5.592131
MUT	-0.089748	7.7369422	-1.306064	0.2239516	0.53816	-5.592584
ETV3	0.0944397	7.1788706	1.3058591	0.2240186	0.53816	-5.592827
SCNM1	0.0953094	9.2498108	1.3058184	0.2240318	0.53816	-5.592876
POM121C	0.1493671	11.206417	1.3057898	0.2240412	0.53816	-5.592909
MNT	0.1820335	7.9652702	1.3053045	0.2241994	0.53845	-5.593484
TXNDC5	0.1116549	9.2466925	1.3050521	0.2242817	0.53856	-5.593782
CTDSPL	-0.094826	6.7623912	-1.304661	0.2244094	0.53875	-5.594245
EIF5AL1	0.0790662	6.9008106	1.3045903	0.2244324	0.53875	-5.594328
AMOT	0.1020197	6.8946033	1.3043214	0.2245202	0.53883	-5.594647
KRT10	-0.086439	9.8622249	-1.304259	0.2245405	0.53883	-5.59472
SNORD17	-0.122358	7.4548662	-1.304115	0.2245877	0.53886	-5.594891
LNPK	0.1403785	7.5522497	1.3037142	0.2247185	0.53902	-5.595364
PIFO	-0.098486	6.9200242	-1.303677	0.2247306	0.53902	-5.595408
CAMTA1	0.0936647	6.814058	1.3035317	0.2247782	0.53905	-5.59558
TMEM8B	0.0908942	7.447292	1.3028027	0.2250166	0.53953	-5.596442
PTGR2	0.1114835	7.8169325	1.3025183	0.2251096	0.53958	-5.596778
POTEH	0.0886362	6.9306101	1.3025079	0.225113	0.53958	-5.59679
PDGFC	0.0973023	6.8346651	1.3021269	0.2252377	0.53979	-5.59724
C5orf24	-0.104978	7.629855	-1.30186	0.2253253	0.53992	-5.597556
PLBD2	0.1301318	7.2410925	1.3017056	0.2253757	0.53995	-5.597738
MIER2	0.1262097	7.2353609	1.3013092	0.2255056	0.53998	-5.598206
LGALS12	0.0984704	7.0025485	1.3012539	0.2255237	0.53998	-5.598271
PMS2P2	-0.092416	7.5305464	-1.301207	0.2255391	0.53998	-5.598326
GBAP1	-0.122621	7.0209244	-1.30115	0.2255576	0.53998	-5.598393
ZNF250	-0.100679	7.908394	-1.300987	0.2256111	0.53998	-5.598586
CBX1	-0.103709	8.0461866	-1.300937	0.2256276	0.53998	-5.598645
RSRC1	-0.118987	8.232014	-1.30087	0.2256495	0.53998	-5.598724
ALDH3A2	-0.080309	8.0663635	-1.299927	0.225959	0.54039	-5.599837

NRXN2	0.1113994	6.9503661	1.2998	0.2260007	0.54039	-5.599987
PAIP1	-0.083355	7.3134846	-1.299777	0.2260081	0.54039	-5.600013
LPIN3	-0.111656	6.8798843	-1.299679	0.2260403	0.54039	-5.600129
NCOA4	-0.110536	11.931593	-1.299679	0.2260404	0.54039	-5.600129
LRIF1	-0.132654	6.9370953	-1.299675	0.2260417	0.54039	-5.600134
TMEM106B	0.0975792	6.7145677	1.2993397	0.2261518	0.54044	-5.60053
HILPDA	-0.113613	9.2840052	-1.29931	0.2261616	0.54044	-5.600565
ALK	-0.092146	7.0209278	-1.299262	0.2261774	0.54044	-5.600621
ZNF613	-0.131545	7.9496667	-1.299139	0.2262176	0.54044	-5.600766
RBM39	0.1044414	7.7616369	1.2990344	0.2262521	0.54044	-5.60089
CYTIP	-0.116466	8.1007913	-1.29894	0.2262832	0.54044	-5.601001
KRTAP4-7	-0.131408	6.9877374	-1.297951	0.2266084	0.54112	-5.602167
NUP205	0.171975	10.627937	1.2977846	0.2266632	0.54112	-5.602363
SV2B	0.102751	6.9088197	1.2976815	0.2266971	0.54112	-5.602485
LINC00114	0.2321723	11.149737	1.2976167	0.2267185	0.54112	-5.602561
MIR604	-0.083863	7.0078811	-1.297391	0.2267927	0.54121	-5.602827
PUS7	-0.141998	10.673824	-1.297151	0.2268719	0.54124	-5.60311
SELENOW	-0.0825	7.8534306	-1.297134	0.2268775	0.54124	-5.60313
PIK3R5	-0.095605	6.8432724	-1.296974	0.22693	0.54127	-5.603318
9-Mar	0.1175214	7.1372363	1.2965833	0.2270589	0.54136	-5.603779
CYTH4	0.1028656	7.1908852	1.2965259	0.2270778	0.54136	-5.603846
OR7G3	0.1034307	7.0191528	1.2964882	0.2270902	0.54136	-5.603891
HSD17B4	0.1167546	9.917531	1.2964098	0.2271161	0.54136	-5.603983
TNFRSF19	0.1257086	6.9994281	1.2958893	0.2272877	0.54159	-5.604596
NUP210	0.1843967	9.1913219	1.2958656	0.2272955	0.54159	-5.604624
PTCD1	-0.135731	10.035554	-1.295764	0.2273289	0.54159	-5.604743
ATP6V1B1	0.0864395	6.8833584	1.2956641	0.227362	0.54159	-5.604861
CYB5D2	0.1034171	8.0326227	1.2952234	0.2275075	0.54185	-5.60538
C12orf75	-0.135773	9.2146945	-1.295017	0.2275755	0.54193	-5.605622
SNRNP35	-0.103609	7.7830298	-1.294595	0.2277151	0.54209	-5.60612
WFDC5	0.094522	6.8421078	1.2945861	0.227718	0.54209	-5.60613
PRG4	-0.081968	6.8687593	-1.294074	0.2278874	0.54232	-5.606733
ISCA1P1	-0.099641	9.1596291	-1.294065	0.2278901	0.54232	-5.606742
SDR39U1	-0.091452	7.3440125	-1.293774	0.2279863	0.54246	-5.607084
TUBBP6	-0.086981	6.9934442	-1.293218	0.2281702	0.54279	-5.607738
PKP4	-0.09523	7.9208924	-1.293135	0.2281977	0.54279	-5.607836
CYB561D1	0.0963652	7.9045035	1.2925893	0.2283785	0.54307	-5.608478
COX16	-0.08893	8.3055872	-1.292554	0.2283901	0.54307	-5.608519
HACD4	-0.200106	9.5266539	-1.292104	0.2285393	0.54333	-5.609048
RAB3B	-0.093054	6.8387702	-1.291576	0.2287145	0.54366	-5.609669
SLC39A11	0.0979073	8.4450842	1.2914008	0.2287725	0.54366	-5.609874
SREBF2	0.1352816	7.1059846	1.2913211	0.2287989	0.54366	-5.609968
SRGAP3	0.079789	6.8175383	1.2912125	0.228835	0.54366	-5.610095

TMEM55B	-0.144493	8.7216378	-1.291001	0.2289053	0.54366	-5.610344
COL22A1	-0.160104	6.8407238	-1.290995	0.2289071	0.54366	-5.610351
SCARB2	0.1468989	8.360997	1.2909043	0.2289372	0.54366	-5.610457
NECAB1	-0.081481	6.6895624	-1.290136	0.2291924	0.54418	-5.61136
ME2	-0.128953	10.479147	-1.289826	0.2292952	0.54433	-5.611723
THBS4	-0.089216	6.8394229	-1.289358	0.2294507	0.54461	-5.612272
CFI	0.1014774	7.0787158	1.2889424	0.2295891	0.54485	-5.61276
ATP5G1	-0.085614	11.001691	-1.288666	0.2296811	0.54498	-5.613084
CCDC66	-0.126414	7.7074659	-1.288551	0.2297194	0.54499	-5.613219
PI16	-0.086401	6.8625054	-1.288179	0.2298431	0.54519	-5.613655
BTG2	-0.154083	9.7020369	-1.287909	0.229933	0.54532	-5.613971
DVL1	0.1128671	7.2116231	1.2875125	0.2300652	0.54554	-5.614437
TMEM256	-0.141449	11.822362	-1.287276	0.2301441	0.54558	-5.614714
GNAL	-0.090447	6.9484165	-1.287157	0.2301839	0.54558	-5.614854
C7orf50	0.0985588	11.241228	1.2871204	0.2301959	0.54558	-5.614896
DDB1	0.081508	10.234843	1.2866055	0.2303677	0.54583	-5.6155
MOV10	0.1283682	7.5234023	1.2865918	0.2303722	0.54583	-5.615516
MYO10	0.1060035	6.8583726	1.286059	0.2305501	0.54613	-5.61614
PRSS16	-0.090038	6.7976656	-1.285843	0.2306221	0.54613	-5.616393
RPAP2	-0.103202	8.0610002	-1.285625	0.2306951	0.54613	-5.616648
AMELX	0.0831012	6.7782834	1.2856126	0.2306991	0.54613	-5.616662
HIST1H4J	0.1257825	7.642327	1.2854999	0.2307368	0.54613	-5.616795
PIGV	0.1214831	8.0577727	1.2854858	0.2307415	0.54613	-5.616811
ELOF1	0.1170652	8.9685055	1.2854215	0.230763	0.54613	-5.616886
C15orf41	-0.114688	7.1772937	-1.284873	0.2309462	0.54644	-5.617528
LPIN2	-0.085564	7.0844695	-1.284806	0.2309688	0.54644	-5.617607
SLC25A25	0.1066769	8.2134085	1.2844739	0.2310798	0.54661	-5.617996
OSBPL11	-0.157515	7.7772362	-1.28409	0.2312083	0.54664	-5.618445
PRRG1	-0.087287	6.6946103	-1.284047	0.2312225	0.54664	-5.618495
PSMC1	0.0786941	12.043206	1.2840304	0.2312281	0.54664	-5.618514
DPY19L2P1	0.0919775	6.8509803	1.2839878	0.2312424	0.54664	-5.618564
ADCY7	-0.107323	7.2527942	-1.283592	0.2313749	0.54687	-5.619028
PRAMEF7	0.1344715	7.0452389	1.2826573	0.231688	0.54752	-5.62012
ARFGAP2	0.1182383	9.0676085	1.2823571	0.2317887	0.54767	-5.620472
CCDC151	0.0872759	6.9406173	1.2821809	0.2318478	0.54772	-5.620677
DGKQ	-0.093956	7.435375	-1.281858	0.231956	0.54781	-5.621054
PDXP	0.1361144	11.4013	1.2818392	0.2319624	0.54781	-5.621077
TSPY3	0.1012844	7.0156895	1.2815417	0.2320623	0.54796	-5.621424
SLC7A6OS	0.1072465	8.037258	1.2811369	0.2321982	0.54818	-5.621897
PPIL2	-0.083091	7.0327779	-1.280923	0.2322699	0.54818	-5.622147
C1orf186	-0.095688	6.8939476	-1.280838	0.2322986	0.54818	-5.622247
RAP1B	-0.133162	7.6415459	-1.280816	0.232306	0.54818	-5.622272
RMND1	0.1244554	7.7592896	1.280517	0.2324064	0.54823	-5.622622

TSTA3	0.173887	8.4984828	1.2804387	0.2324327	0.54823	-5.622713
CD93	-0.092547	6.7159306	-1.280424	0.2324377	0.54823	-5.62273
PDAP1	0.0843217	7.2547793	1.280172	0.2325224	0.54832	-5.623024
ARID5A	0.0781887	6.8556093	1.2800858	0.2325514	0.54832	-5.623125
ZFP64	0.0948614	7.0264987	1.2798942	0.2326158	0.54838	-5.623349
CD200	-0.102487	6.969607	-1.279331	0.2328053	0.54861	-5.624006
TMEM63B	0.0810958	7.2615463	1.2793218	0.2328084	0.54861	-5.624017
ZNF419	-0.078357	7.8160087	-1.279268	0.2328265	0.54861	-5.62408
FAM117B	0.1496086	8.8470888	1.2791309	0.2328726	0.54863	-5.62424
FDX1	0.1177011	7.441288	1.2788737	0.2329592	0.54867	-5.62454
MCMBP	-0.133495	7.9581046	-1.278855	0.2329654	0.54867	-5.624561
CRK	0.0910794	8.1665194	1.2787156	0.2330125	0.5487	-5.624724
TRMO	-0.094093	8.5261916	-1.278371	0.2331286	0.54871	-5.625126
ARR3	-0.091819	6.8207442	-1.278365	0.2331306	0.54871	-5.625133
CTDP1	0.0867903	7.5205407	1.2783603	0.2331322	0.54871	-5.625139
MRPS7	-0.113938	10.128247	-1.278088	0.2332239	0.54884	-5.625456
IGF2BP1	0.122507	7.6989932	1.2779619	0.2332665	0.54885	-5.625603
GJC2	-0.099557	7.3670184	-1.277522	0.2334148	0.54908	-5.626116
S1PR3	-0.085645	6.7948598	-1.277454	0.2334376	0.54908	-5.626195
SNAP25	-0.096425	6.8348248	-1.27734	0.2334762	0.54908	-5.626329
TRAPPC5	0.1289845	10.76806	1.2766573	0.2337066	0.54943	-5.627124
TEAD4	-0.08353	6.7616482	-1.276628	0.2337164	0.54943	-5.627158
CDIP1	0.0853873	6.8469962	1.2765575	0.2337403	0.54943	-5.627241
KCNQ1OT1	-0.116379	7.3773378	-1.276448	0.2337772	0.54943	-5.627368
DISP2	0.099105	6.8680867	1.2760617	0.2339078	0.54957	-5.627818
LGALS1	0.1301247	7.7010788	1.2760581	0.233909	0.54957	-5.627823
TAP1	0.1078462	11.406574	1.2757624	0.2340089	0.54969	-5.628167
ZNF33B	-0.115048	7.8379726	-1.275656	0.2340448	0.54969	-5.628291
MRPL52	-0.103899	9.5508499	-1.275564	0.2340761	0.54969	-5.628399
CEP44	-0.110597	8.0353768	-1.275247	0.234183	0.54978	-5.628767
AKAIN1	-0.10263	6.8887354	-1.275231	0.2341884	0.54978	-5.628785
TMEM106C	-0.190005	10.699885	-1.274245	0.2345223	0.55047	-5.629934
FCHSD2	-0.092155	8.2303338	-1.274113	0.2345671	0.55049	-5.630088
ZBTB3	-0.0893	7.8842335	-1.273955	0.2346207	0.55053	-5.630272
KLHL24	-0.137788	7.8398271	-1.273804	0.2346718	0.55056	-5.630448
CPSF4	-0.099779	9.6868304	-1.272758	0.2350264	0.55124	-5.631664
RRP36	-0.148606	10.554846	-1.272667	0.235057	0.55124	-5.631769
ARL8B	-0.154781	9.8207514	-1.272558	0.2350943	0.55124	-5.631897
FLJ41130	0.1015098	6.9966391	1.272483	0.2351196	0.55124	-5.631984
HYKK	0.1174737	7.3433813	1.2723882	0.2351517	0.55124	-5.632094
RABGAP1	0.2222329	9.0605325	1.2720024	0.2352827	0.55146	-5.632543
NENF	-0.157904	10.758877	-1.271405	0.2354856	0.55185	-5.633237
ADAT1	0.0942492	8.2924388	1.2709385	0.2356442	0.55213	-5.633779

SRPRB	-0.19095	10.512033	-1.270765	0.2357033	0.55218	-5.633981
MPIG6B	-0.089316	7.0338275	-1.270243	0.2358809	0.55251	-5.634587
UBE2D2	-0.108445	8.2200421	-1.269781	0.2360378	0.55263	-5.635123
APBB2	-0.0924	6.904306	-1.269771	0.2360415	0.55263	-5.635136
CPEB2	0.1198448	7.147097	1.2697583	0.2360457	0.55263	-5.63515
RAB3GAP1	0.1259811	10.053845	1.2693254	0.2361931	0.55281	-5.635652
EI24	0.0776592	10.744861	1.2692944	0.2362036	0.55281	-5.635688
MIB2	0.1085004	8.0421646	1.2691957	0.2362373	0.55281	-5.635803
EDF1	0.0986679	11.371051	1.2690679	0.2362808	0.55282	-5.635951
FAM120B	0.1523021	9.9391629	1.2683557	0.2365236	0.55314	-5.636778
ANKRD44	0.1035347	7.3141629	1.2683343	0.2365309	0.55314	-5.636803
PSMB4	0.0852729	11.616722	1.2683256	0.2365339	0.55314	-5.636813
TCEAL4	0.0923633	6.8467028	1.2682242	0.2365684	0.55314	-5.63693
KNSTRN	-0.108678	8.9014412	-1.268008	0.2366422	0.55323	-5.637181
ITGA10	-0.086932	7.0048252	-1.267546	0.2367999	0.55343	-5.637717
SIRT3	0.0962482	6.872118	1.2675348	0.2368037	0.55343	-5.63773
NFKBIL1	-0.106129	6.844478	-1.26709	0.2369556	0.55369	-5.638246
CRB1	-0.086118	6.9186156	-1.266634	0.2371113	0.55397	-5.638774
WBP1	-0.099542	8.0258003	-1.266167	0.237271	0.55425	-5.639316
HDHD3	-0.103208	7.9376018	-1.265998	0.2373288	0.5543	-5.639512
FUT7	0.0899	6.8432666	1.2657227	0.2374229	0.55441	-5.639831
VPS13D	-0.087418	6.9943716	-1.265633	0.2374535	0.55441	-5.639934
SOCS6	0.1296388	7.0739772	1.2652509	0.2375844	0.5546	-5.640377
PHF21A	-0.08823	10.037107	-1.26518	0.2376086	0.5546	-5.640459
KBTBD11	0.0864697	6.7242229	1.2644424	0.2378612	0.5551	-5.641313
SNORD12B	-0.111723	7.194848	-1.264109	0.2379756	0.55526	-5.6417
PGP	-0.083968	7.2559612	-1.263954	0.2380286	0.55526	-5.641879
IDUA	-0.080683	6.7267709	-1.263909	0.2380442	0.55526	-5.641931
KCNS3	0.0796623	6.7581448	1.263643	0.2381353	0.55529	-5.642239
ANKRD54	0.1035053	8.6417946	1.2635012	0.2381839	0.55529	-5.642403
ZFP36L1	-0.1789	9.2322135	-1.263501	0.2381839	0.55529	-5.642403
RPS12	0.105168	14.44916	1.2634269	0.2382094	0.55529	-5.642489
TRAF3	0.0893807	7.7238871	1.2623652	0.2385738	0.55605	-5.643717
ZBED2	0.1128592	7.0982893	1.2622157	0.2386251	0.55608	-5.64389
TMEM158	0.1090518	6.7789003	1.2618982	0.2387342	0.55609	-5.644257
FYCO1	0.0971952	8.0061684	1.2617981	0.2387686	0.55609	-5.644373
PGM5-AS1	0.0993744	7.4210325	1.2617688	0.2387787	0.55609	-5.644406
FAM25E	0.093922	6.8027308	1.2616995	0.2388025	0.55609	-5.644487
PRR15L	-0.088085	6.9793859	-1.261539	0.2388577	0.55609	-5.644672
ILDR1	0.1143993	7.7045645	1.2614882	0.2388752	0.55609	-5.644731
NLE1	0.0859365	7.5987796	1.2614267	0.2388963	0.55609	-5.644802
GAR1	0.0808588	9.7794044	1.2610141	0.2390382	0.55629	-5.645279
PART1	0.1247035	7.0507379	1.2609525	0.2390594	0.55629	-5.64535

MGMT	-0.135665	8.8620348	-1.260241	0.2393043	0.55677	-5.646172
RMDN3	0.0931792	9.7500952	1.2599634	0.2393999	0.55691	-5.646493
BID	-0.082506	8.249702	-1.259804	0.239455	0.55695	-5.646677
AHCYL2	-0.121313	7.2007802	-1.2596	0.239525	0.55698	-5.646912
DAO	0.1017233	6.8873868	1.2595365	0.239547	0.55698	-5.646986
ACSL5	-0.090661	8.084219	-1.259291	0.2396317	0.55709	-5.647269
OVGP1	-0.087763	7.1156265	-1.2591	0.2396975	0.55716	-5.64749
JOSD1	-0.131863	9.2918074	-1.258982	0.2397382	0.55716	-5.647626
FCHO2	-0.101538	6.8708631	-1.258762	0.2398139	0.55721	-5.647879
FOPNL	-0.130611	9.779962	-1.25866	0.2398492	0.55721	-5.647997
FAM110B	-0.08462	6.6760547	-1.258585	0.2398752	0.55721	-5.648085
NTN1	0.0876113	6.8337763	1.2583358	0.2399611	0.55733	-5.648372
AGT	0.0923172	6.7653297	1.2581875	0.2400123	0.55736	-5.648543
SPAG1	-0.086104	7.002237	-1.257895	0.2401134	0.55736	-5.648881
CCR9	0.1137389	6.9730797	1.2577733	0.2401553	0.55736	-5.649021
DAD1	0.1161019	12.125518	1.2577717	0.2401558	0.55736	-5.649022
RNF135	-0.079989	6.8439707	-1.257564	0.2402277	0.55736	-5.649262
JAZF1	0.1301023	8.6948401	1.2575144	0.2402447	0.55736	-5.649319
ALAS1	0.1071355	7.3163735	1.2574567	0.2402646	0.55736	-5.649386
CPSF4L	-0.094934	6.9901683	-1.257402	0.2402834	0.55736	-5.649448
SMPDL3B	-0.09488	7.4138297	-1.257076	0.2403962	0.55754	-5.649825
DGCR11	0.1223719	7.669023	1.2568938	0.2404592	0.55759	-5.650035
RD3	-0.099981	6.9465217	-1.256784	0.2404971	0.55759	-5.650161
TAB2	0.0778195	7.0343935	1.2564992	0.2405956	0.55773	-5.65049
TOP1	0.1058198	7.6797181	1.2561719	0.2407088	0.55791	-5.650867
MINCR	-0.09893	7.0877629	-1.256036	0.2407558	0.55793	-5.651023
TMED9	0.0980662	10.639605	1.2558683	0.2408139	0.55797	-5.651217
CHIC1	-0.083217	6.8304912	-1.255248	0.2410285	0.55838	-5.651931
ICMT	0.0877721	8.3801148	1.2547944	0.2411859	0.55865	-5.652454
FOS	0.0903692	6.8793524	1.2547003	0.2412185	0.55865	-5.652562
HAUS2	-0.142072	9.2085559	-1.254447	0.2413064	0.55865	-5.652854
LINC00339	-0.118983	8.5881958	-1.254375	0.2413313	0.55865	-5.652937
ABCB8	0.1110011	7.0394279	1.2543657	0.2413345	0.55865	-5.652948
PYCR1	0.1504882	7.9678864	1.2541043	0.2414251	0.55877	-5.653249
TSEN54	0.1309653	8.2185693	1.2536354	0.2415878	0.55906	-5.653788
TMEM175	-0.149784	8.145846	-1.253193	0.2417414	0.55932	-5.654298
NSUN2	0.1013404	11.546408	1.2528705	0.2418534	0.55949	-5.654669
FAM153B	-0.162539	7.8674249	-1.252593	0.2419497	0.55963	-5.654987
HOXB4	0.1090397	7.6235686	1.2522967	0.2420528	0.55965	-5.655329
ASB12	-0.083938	6.7218505	-1.252266	0.2420634	0.55965	-5.655364
ACBD5	-0.092902	7.015988	-1.252238	0.242073	0.55965	-5.655396
TBC1D3B	-0.101701	7.0192526	-1.251924	0.2421823	0.55969	-5.655757
SERPINA10	-0.099722	7.4370031	-1.251918	0.2421843	0.55969	-5.655764

C6orf10	-0.086943	6.7855228	-1.251856	0.2422059	0.55969	-5.655835
ALDH18A1	0.0903792	10.559629	1.2516456	0.2422792	0.55976	-5.656077
PI4K2B	-0.085169	8.435454	-1.251545	0.2423143	0.55976	-5.656193
KARS	0.1201847	10.075892	1.2512039	0.2424329	0.55995	-5.656585
DPP8	0.1125155	8.4692307	1.2505448	0.2426624	0.56039	-5.657342
RND1	-0.146725	7.0811401	-1.250397	0.242714	0.56042	-5.657513
PRC1	0.1118524	10.60424	1.2502002	0.2427824	0.56045	-5.657738
RPS3	-0.103458	14.268682	-1.25014	0.2428033	0.56045	-5.657807
IL23A	-0.085371	7.1678418	-1.25001	0.2428487	0.56046	-5.657957
P2RX1	0.0889023	6.9061234	1.2495703	0.243002	0.56073	-5.658462
UBE2L3	-0.092586	8.406258	-1.24942	0.2430545	0.56076	-5.658634
GPR156	0.1147247	7.0366021	1.2493074	0.2430937	0.56076	-5.658764
RPS20	-0.107827	14.056322	-1.24916	0.2431451	0.56079	-5.658933
CDK8	-0.114744	7.6327031	-1.249059	0.2431803	0.56079	-5.659049
AACS	-0.093553	7.4052314	-1.248862	0.243249	0.56086	-5.659275
LINC01931	-0.133264	7.175265	-1.248441	0.243396	0.56101	-5.659758
PCBP1	0.1079429	12.617971	1.2484325	0.243399	0.56101	-5.659768
PRIMPOL	-0.141684	7.209547	-1.248344	0.2434301	0.56101	-5.65987
KPTN	0.0895331	7.3541261	1.2475784	0.2436974	0.56153	-5.660748
DDX19B	0.0959652	8.8543077	1.247475	0.2437336	0.56153	-5.660866
SYNJ1	-0.106761	7.0397319	-1.247277	0.2438029	0.5616	-5.661094
ST6GALNAC	0.086382	6.9325056	1.2468501	0.2439521	0.56186	-5.661583
RTN4	-0.078589	8.507786	-1.246574	0.2440487	0.56199	-5.661899
CHST13	-0.118981	6.8912557	-1.246357	0.2441245	0.56205	-5.662148
RAB42P1	0.1237557	9.9525018	1.246284	0.2441502	0.56205	-5.662232
TMEM267	-0.163448	8.8648655	-1.245924	0.2442763	0.56219	-5.662645
DDX11	0.1087124	7.3001242	1.2457726	0.2443293	0.56219	-5.662818
HMG20A	-0.097882	8.096839	-1.245772	0.2443297	0.56219	-5.662819
SEBOX	0.1003649	6.8461342	1.2456014	0.2443893	0.56224	-5.663014
PCTP	-0.097995	7.2956132	-1.245295	0.2444968	0.5624	-5.663366
TCF21	0.1133477	6.8713593	1.2451153	0.2445597	0.5624	-5.663571
AMBRA1	0.1218989	7.0393272	1.245012	0.2445959	0.5624	-5.66369
ZNF621	0.1110992	8.2021739	1.2449662	0.2446119	0.5624	-5.663742
CAMKK1	0.0892068	6.9567253	1.2448218	0.2446626	0.56242	-5.663907
KIAA0319L	0.0785664	7.2187113	1.2446596	0.2447195	0.56242	-5.664093
SNAPC4	-0.146514	10.21774	-1.244611	0.2447365	0.56242	-5.664149
CPE	-0.076661	6.7563148	-1.244348	0.2448286	0.56244	-5.66445
PHC2	0.1108758	7.6314504	1.2441899	0.2448843	0.56244	-5.664631
LRRC29	0.0811159	7.242971	1.2441612	0.2448943	0.56244	-5.664664
FAM124A	-0.083611	6.8579871	-1.244151	0.2448978	0.56244	-5.664675
C1orf105	-0.079035	6.8456447	-1.243725	0.2450474	0.56262	-5.665163
TP53I11	0.0836123	6.9338832	1.2436936	0.2450585	0.56262	-5.665199
COQ5	-0.102366	10.270228	-1.24359	0.2450947	0.56262	-5.665317

FAM227B	0.0814053	6.8202765	1.2433342	0.2451847	0.56274	-5.66561
G3BP2	-0.106025	10.012828	-1.243046	0.2452859	0.56288	-5.66594
ZCCHC11	-0.093147	8.0601776	-1.242732	0.2453963	0.56305	-5.666299
RIPK2	0.1312647	10.902292	1.2421258	0.2456095	0.56345	-5.666993
SCAMP5	-0.083724	6.8581783	-1.241711	0.2457555	0.5637	-5.667467
FBXO2	0.0988106	6.9666802	1.2412744	0.2459092	0.56391	-5.667966
OR4A16	0.1181756	7.0201257	1.2412251	0.2459266	0.56391	-5.668022
FBXO18	-0.095059	9.6514119	-1.241001	0.2460054	0.564	-5.668278
OSBPL7	0.0984159	7.5193257	1.2405097	0.2461786	0.56431	-5.66884
VAPA	-0.084214	7.288387	-1.240282	0.2462589	0.56432	-5.6691
THRAP3	0.1316101	8.2238538	1.2402788	0.24626	0.56432	-5.669104
RP9	-0.094998	9.9725774	-1.239762	0.2464424	0.56457	-5.669694
TMEM86B	0.0940945	7.8387602	1.2394994	0.2465349	0.56457	-5.669994
ISPD	0.0783727	6.9526011	1.2392414	0.246626	0.56457	-5.670289
HSP90B1	-0.137038	12.038044	-1.239033	0.2466995	0.56457	-5.670526
SNRPB2	-0.109698	10.665258	-1.238944	0.2467312	0.56457	-5.670629
CEP19	0.0945403	8.205122	1.2389339	0.2467346	0.56457	-5.67064
CCDC107	-0.084342	7.4847674	-1.238887	0.2467512	0.56457	-5.670693
OR2A20P	0.1476017	7.427746	1.2387883	0.246786	0.56457	-5.670806
NAT14	0.0953717	8.4091427	1.2387394	0.2468032	0.56457	-5.670862
FSIP1	0.0857598	7.122031	1.2386679	0.2468285	0.56457	-5.670943
KAT2A	-0.138532	10.606191	-1.23863	0.2468419	0.56457	-5.670987
CC2D1B	-0.081127	7.1822255	-1.238578	0.2468602	0.56457	-5.671046
DAG1	0.0961981	7.5393638	1.2385524	0.2468693	0.56457	-5.671075
REEP2	-0.080651	6.8500231	-1.238189	0.2469978	0.56477	-5.67149
CDKAL1	0.105225	7.7782527	1.2380721	0.247039	0.56477	-5.671623
DISP1	-0.132124	7.1056712	-1.237849	0.2471179	0.56477	-5.671878
BRAT1	-0.104511	10.598793	-1.237817	0.2471293	0.56477	-5.671914
RNF157	0.0997152	6.8751354	1.2377498	0.247153	0.56477	-5.671991
NDUFAF6	-0.086788	9.9714365	-1.237518	0.2472349	0.56487	-5.672255
LMBR1	0.1336461	9.2696633	1.236902	0.2474529	0.56528	-5.672958
CASTOR1	0.0862207	7.3687179	1.236662	0.2475379	0.56532	-5.673231
NUMBL	-0.098944	7.2450731	-1.236635	0.2475475	0.56532	-5.673262
THNSL2	-0.114651	6.9338433	-1.236528	0.2475854	0.56532	-5.673384
REG3A	-0.082006	6.8502465	-1.236416	0.2476249	0.56532	-5.673511
MT1M	0.0827826	6.7568377	1.2358838	0.2478136	0.56554	-5.674118
ABHD17C	0.142726	9.1317927	1.2358506	0.2478253	0.56554	-5.674156
SLC34A2	0.0868425	6.9150232	1.2357185	0.2478721	0.56554	-5.674307
RIC1	-0.085503	6.990517	-1.235617	0.2479083	0.56554	-5.674423
B3GNT8	0.0955837	6.9571131	1.23551	0.2479461	0.56554	-5.674544
C9orf64	-0.126817	7.2108881	-1.235386	0.2479899	0.56554	-5.674685
STRN3	-0.152256	8.7368137	-1.235374	0.2479942	0.56554	-5.674699
FGF6	0.0848618	6.9654898	1.2349732	0.2481364	0.56578	-5.675156

SPATA31A1	-0.082835	6.9087548	-1.234778	0.2482055	0.56585	-5.675377
SLC22A7	0.0881359	6.9674549	1.2344038	0.2483385	0.56606	-5.675804
TFCP2	-0.077105	7.5858821	-1.234296	0.2483768	0.56606	-5.675927
KDM6B	-0.080104	7.0077526	-1.234068	0.2484576	0.56616	-5.676186
MAMSTR	0.0883304	7.2618794	1.2337196	0.2485815	0.56635	-5.676583
HECTD2	-0.081562	7.3665124	-1.23359	0.2486277	0.56637	-5.676731
IL16	0.0799897	7.8911746	1.2333975	0.248696	0.56644	-5.67695
P4HTM	-0.088765	7.9471158	-1.232972	0.2488471	0.56669	-5.677433
CTBP2	-0.127054	7.1818078	-1.231736	0.2492872	0.5676	-5.678839
NMUR1	0.097706	6.8141038	1.2312369	0.2494649	0.56787	-5.679407
FGFR1	-0.075475	6.7708768	-1.231092	0.2495164	0.56787	-5.679571
WNT6	-0.099913	6.8807485	-1.23108	0.2495209	0.56787	-5.679585
PIH1D1	0.0994719	8.6991258	1.2307135	0.2496515	0.56802	-5.680001
CFAP57	0.0852179	6.9840426	1.2306166	0.249686	0.56802	-5.680111
TFB1M	-0.131593	10.007086	-1.230472	0.2497374	0.56802	-5.680275
FDXR	0.0944878	7.1139586	1.2303843	0.2497689	0.56802	-5.680375
PLCL2	0.1268398	8.998459	1.2303213	0.2497913	0.56802	-5.680447
CCNG1	-0.0882	9.2596365	-1.230205	0.2498329	0.56802	-5.680579
LMF2	0.1025523	7.7870036	1.2300351	0.2498934	0.56802	-5.680772
TIPARP	-0.112173	8.3541131	-1.229958	0.249921	0.56802	-5.68086
DDX50	-0.113167	9.7052032	-1.22989	0.2499454	0.56802	-5.680937
ACTN1	0.1221453	6.7393163	1.2297992	0.2499776	0.56802	-5.68104
SNORD12C	-0.169788	7.8318729	-1.229497	0.2500854	0.56814	-5.681383
SCN1A	0.1107042	6.9273536	1.2293432	0.2501404	0.56814	-5.681558
PHPT1	0.0958237	11.796336	1.22933	0.2501452	0.56814	-5.681573
CALCOCO2	-0.10949	7.2371113	-1.22875	0.2503524	0.56852	-5.682231
LOC1001343	0.0947684	7.1444503	1.2284061	0.2504753	0.56869	-5.682621
TRPM7	0.1025212	6.9120979	1.2283299	0.2505025	0.56869	-5.682708
DOCK8	0.151785	8.7961789	1.2279504	0.2506382	0.56891	-5.683138
HMBS	-0.081543	10.129463	-1.227726	0.2507186	0.569	-5.683393
ST14	-0.188944	8.1535537	-1.227369	0.2508463	0.56901	-5.683798
ZNF195	-0.112395	8.5202388	-1.227294	0.250873	0.56901	-5.683882
HOXA13	-0.07889	6.8455014	-1.227269	0.250882	0.56901	-5.683911
TRIM41	0.119624	8.1851838	1.227224	0.2508982	0.56901	-5.683962
ROGDI	-0.081511	6.8507318	-1.227166	0.2509189	0.56901	-5.684028
VPS28	0.0955148	8.6327266	1.2270029	0.2509773	0.56906	-5.684213
TNNT1	-0.098777	6.8227315	-1.226764	0.2510628	0.56913	-5.684483
CTGF	-0.106883	7.051742	-1.226591	0.2511249	0.56913	-5.68468
PEBP4	0.0898925	6.8148478	1.2265833	0.2511276	0.56913	-5.684688
GPR35	0.0804028	6.864233	1.2262208	0.2512575	0.56934	-5.685099
RBBP5	0.0902473	8.0213171	1.2257848	0.2514138	0.56954	-5.685593
PSMA1	-0.081826	9.4750874	-1.225709	0.2514409	0.56954	-5.685679
TMEM234	0.0814771	7.0443362	1.2256512	0.2514618	0.56954	-5.685745

PHF14	-0.08165	7.9103252	-1.225043	0.2516798	0.56986	-5.686433
FPR1	-0.126741	6.9926109	-1.225016	0.2516898	0.56986	-5.686465
ID1	-0.082707	6.7168601	-1.224832	0.2517558	0.56986	-5.686673
KCTD2	0.1129007	7.6020432	1.2248147	0.2517619	0.56986	-5.686692
SPG21	-0.10464	9.0362131	-1.224698	0.2518038	0.56987	-5.686824
HTR3C	-0.084007	6.7986275	-1.224498	0.2518758	0.56994	-5.687051
FBN2	-0.08513	6.9379713	-1.224355	0.2519269	0.56994	-5.687212
GCM1	0.122335	6.9840911	1.2242213	0.2519751	0.56994	-5.687364
CD47	-0.155437	8.4457838	-1.224174	0.251992	0.56994	-5.687417
WWP2	-0.079481	6.9773277	-1.22393	0.2520797	0.57003	-5.687694
EXOC1	-0.078446	7.783623	-1.223744	0.2521466	0.57003	-5.687904
CCDC88B	0.1143366	7.2249878	1.2237335	0.2521503	0.57003	-5.687916
DCAF13	-0.168497	8.729692	-1.223505	0.2522326	0.57013	-5.688175
HAS2	0.0908076	6.8115864	1.2228099	0.2524825	0.5706	-5.688961
PROK1	-0.076422	6.8900612	-1.222623	0.2525498	0.5706	-5.689172
TMSB10	-0.086559	13.37554	-1.222606	0.2525557	0.5706	-5.689191
FAM26E	0.0895951	7.0816768	1.2220998	0.2527382	0.57084	-5.689764
ALDH4A1	-0.082306	7.2883173	-1.221958	0.2527894	0.57084	-5.689925
TOMM40L	0.1063106	8.9338229	1.2219224	0.2528021	0.57084	-5.689964
CASP7	-0.079407	7.4812986	-1.221867	0.2528221	0.57084	-5.690027
ASCL2	0.103781	6.9737904	1.2217461	0.2528656	0.57085	-5.690164
DNMT3A	-0.11877	6.8411956	-1.220962	0.2531481	0.5713	-5.69105
USP24	0.1131086	9.0760704	1.220899	0.253171	0.5713	-5.691121
ZNF366	0.0787709	6.8635488	1.22076	0.2532211	0.5713	-5.691278
ST5	0.0791459	6.9182393	1.2207587	0.2532215	0.5713	-5.691279
IGF2BP2	0.094598	6.9723351	1.22065	0.2532607	0.5713	-5.691402
TMED10	0.1263021	9.4205335	1.2204995	0.253315	0.57134	-5.691572
MEA1	0.1462348	8.8043478	1.2199901	0.2534989	0.57167	-5.692148
EXOSC5	0.1313828	9.3428225	1.2196967	0.2536049	0.57182	-5.692479
TMEM161A	0.1116337	7.3485622	1.2194027	0.2537111	0.57194	-5.692811
TAF1A	-0.080599	7.1280414	-1.219106	0.2538183	0.57194	-5.693146
COG8	0.0826563	7.4102954	1.2190433	0.2538409	0.57194	-5.693216
LRP6	-0.102944	6.9160603	-1.218932	0.2538812	0.57194	-5.693342
DTWD2	-0.102921	8.3402837	-1.218931	0.2538815	0.57194	-5.693343
SORT1	-0.108193	7.2132131	-1.218888	0.2538972	0.57194	-5.693392
CBWD6	-0.080126	7.0544788	-1.217682	0.2543333	0.57284	-5.694752
PTAFR	0.119899	8.4324533	1.2171299	0.2545333	0.5732	-5.695375
NHP2	0.1017359	11.589606	1.2169241	0.2546078	0.57321	-5.695607
LINC00908	-0.081479	6.8775796	-1.216875	0.2546256	0.57321	-5.695662
ZBED6CL	0.0795007	7.0412368	1.2167975	0.2546537	0.57321	-5.695749
GALM	0.0830221	6.8014929	1.2166424	0.2547099	0.57324	-5.695924
NDUFA12	-0.129759	11.842027	-1.216196	0.2548717	0.57352	-5.696427
ATF7IP2	-0.101388	7.078087	-1.216057	0.2549222	0.57355	-5.696584

EFCAB11	0.0928107	7.8668601	1.2158603	0.2549935	0.57356	-5.696805
FAM86DP	-0.113472	7.9061149	-1.215827	0.2550056	0.57356	-5.696843
MAGEA9B	0.0985801	7.0153297	1.2155417	0.2551091	0.57369	-5.697164
DHPS	0.0888618	9.2295037	1.2154367	0.2551472	0.57369	-5.697282
ZNF805	0.0867279	7.0777359	1.2152324	0.2552214	0.57369	-5.697513
KCNRG	-0.075795	6.9194482	-1.215107	0.2552669	0.57369	-5.697654
ZNF213	0.1097784	7.4158704	1.214962	0.2553196	0.57369	-5.697817
ACY1	0.121523	8.2570073	1.2148896	0.2553459	0.57369	-5.697899
ACTR1B	0.1608084	9.2462878	1.2148846	0.2553477	0.57369	-5.697904
SNIP1	-0.128487	8.3910692	-1.214605	0.2554492	0.57369	-5.698219
GUSBP1	-0.079427	6.9650399	-1.214514	0.2554825	0.57369	-5.698322
TCEA1	-0.134771	9.1827694	-1.214465	0.2555003	0.57369	-5.698377
CDK5R1	0.0854029	7.2261627	1.214291	0.2555633	0.57369	-5.698572
IRAK4	-0.091101	7.5239366	-1.214165	0.2556092	0.57369	-5.698714
FAS	-0.104692	8.705383	-1.214161	0.2556106	0.57369	-5.698719
MMACHC	0.1119093	8.6270478	1.2137791	0.2557494	0.57369	-5.699148
MAGEA6	-0.074154	6.9099252	-1.213754	0.2557585	0.57369	-5.699177
RGL4	-0.090019	6.988788	-1.213711	0.2557742	0.57369	-5.699225
KIR2DL2	0.0835753	6.9143288	1.2136925	0.2557809	0.57369	-5.699246
SLC39A8	0.0930263	9.7499641	1.2135284	0.2558406	0.57369	-5.69943
HOXA1	0.0865545	6.9584978	1.2134082	0.2558843	0.57369	-5.699566
MOSPD2	0.0880729	7.5268948	1.2134053	0.2558854	0.57369	-5.699569
2-Sep	-0.083548	9.4101268	-1.213391	0.2558904	0.57369	-5.699585
ZNF577	0.1111476	7.6690865	1.2130793	0.256004	0.57382	-5.699936
SNX31	-0.082658	6.8575713	-1.213012	0.2560287	0.57382	-5.700012
PRELID3B	-0.079604	8.6887874	-1.212737	0.2561288	0.57396	-5.700321
VENTXP1	-0.083075	7.2432578	-1.212568	0.2561902	0.57401	-5.700511
FAM117A	0.0934408	7.680543	1.2123475	0.2562705	0.5741	-5.700758
AP3B1	0.1469309	10.294216	1.2119602	0.2564116	0.57433	-5.701194
LOC729722	-0.081299	6.7424042	-1.211849	0.2564522	0.57433	-5.701319
ZNF563	0.0996775	7.1973603	1.2113194	0.2566452	0.57445	-5.701914
MACROD2	0.0895551	6.7695386	1.211283	0.2566584	0.57445	-5.701955
DDX5	-0.102244	9.616449	-1.211156	0.2567048	0.57445	-5.702098
GALK1	0.0972489	10.295182	1.2109022	0.2567974	0.57445	-5.702382
YTHDC2	-0.085237	7.6678622	-1.210887	0.2568029	0.57445	-5.702399
SPIN3	-0.07874	6.9438787	-1.210887	0.2568029	0.57445	-5.7024
SPICE1	0.0842469	6.882159	1.2105944	0.2569097	0.57445	-5.702728
KLC2	-0.099705	7.1228569	-1.210587	0.2569124	0.57445	-5.702737
KLHDC10	-0.081882	7.2981123	-1.21054	0.2569295	0.57445	-5.702789
PITPNA	-0.11822	7.8354452	-1.210522	0.2569361	0.57445	-5.702809
LDLR	0.1235231	11.173335	1.2105165	0.2569381	0.57445	-5.702816
CNOT1	0.0890238	8.6900856	1.2103176	0.2570107	0.57452	-5.703039
ELF4	0.1056139	8.3143615	1.2099659	0.2571392	0.57472	-5.703434

PKIA	-0.119318	8.4040046	-1.209761	0.2572141	0.5748	-5.703664
SERAC1	-0.087913	7.3054213	-1.209588	0.2572772	0.57485	-5.703858
SAC3D1	0.2609804	9.7770624	1.2094826	0.2573158	0.57485	-5.703976
NMT1	-0.10809	8.8484557	-1.20923	0.2574082	0.57493	-5.70426
ARF5	0.0951103	9.6646216	1.2091694	0.2574302	0.57493	-5.704328
ZNF2	-0.133416	7.7475462	-1.209044	0.2574762	0.57495	-5.704469
CD4	-0.08777	6.7005748	-1.208915	0.2575233	0.57497	-5.704613
SFMBT1	0.0852042	7.64169	1.2083228	0.2577399	0.57528	-5.705277
PMEPA1	0.0812321	6.904123	1.2082771	0.2577566	0.57528	-5.705329
TMEM170A	-0.09563	8.1207878	-1.208204	0.2577834	0.57528	-5.705411
FRYL	0.0863278	7.4057803	1.2079622	0.2578719	0.57535	-5.705682
SLC29A2	0.0944402	8.3749423	1.2078276	0.2579212	0.57535	-5.705833
TSPAN31	-0.084978	8.6362443	-1.207802	0.2579307	0.57535	-5.705862
LIMS1	0.1539386	7.3886262	1.2074916	0.2580442	0.57551	-5.706209
OSBPL5	0.0794794	6.7669652	1.207127	0.2581778	0.57562	-5.706618
SYTL2	0.0884724	7.4036105	1.2071101	0.258184	0.57562	-5.706637
FOLR2	-0.081759	7.2774325	-1.20704	0.2582099	0.57562	-5.706716
FAM173B	-0.102852	7.5541803	-1.206711	0.2583304	0.57572	-5.707085
TJAP1	-0.137676	9.5583853	-1.206696	0.2583359	0.57572	-5.707101
ACOT2	0.0753754	6.756807	1.2065786	0.2583788	0.57573	-5.707233
FHL3	0.1138916	6.8879156	1.2063603	0.2584589	0.57577	-5.707477
CNP	-0.096528	6.9621096	-1.20622	0.2585104	0.57577	-5.707635
VIPAS39	0.0867231	7.7852782	1.2061007	0.2585541	0.57577	-5.707768
MCHR2	0.104263	7.3043156	1.2060974	0.2585553	0.57577	-5.707772
LOC645177	-0.105505	6.9585653	-1.205769	0.2586759	0.57579	-5.70814
GPRIN1	0.0756047	6.9736294	1.2057629	0.2586781	0.57579	-5.708146
SIM2	0.1465092	7.0183629	1.2057589	0.2586796	0.57579	-5.708151
PARVG	-0.102653	7.7818713	-1.205556	0.2587541	0.57586	-5.708378
ATF3	0.1041846	7.6754284	1.2054111	0.2588072	0.57589	-5.70854
GUSBP2	0.1068755	8.0433382	1.205299	0.2588484	0.5759	-5.708666
LYPD3	0.0982141	6.9139794	1.2050265	0.2589485	0.57603	-5.708971
FAXC	0.1035936	6.889874	1.2047198	0.2590612	0.57606	-5.709314
OTOF	-0.098645	6.9167578	-1.20462	0.2590979	0.57606	-5.709426
C17orf62	0.1101737	8.6079182	1.2045723	0.2591154	0.57606	-5.709479
CFDP1	-0.121786	8.6802532	-1.204532	0.25913	0.57606	-5.709524
RIOX1	-0.091762	9.2048413	-1.204458	0.2591573	0.57606	-5.709607
RAB11FIP4	-0.125776	7.1320796	-1.203691	0.2594393	0.5766	-5.710465
MANEA	-0.099998	7.1511857	-1.202932	0.2597188	0.57713	-5.711314
MLLT3	0.1344518	7.0382136	1.2028314	0.2597559	0.57713	-5.711426
ZBTB34	-0.084528	7.5780704	-1.202175	0.2599977	0.57732	-5.71216
WDFY1	0.173376	9.6434017	1.2021569	0.2600044	0.57732	-5.71218
CSTF2	0.142441	9.6909433	1.2020397	0.2600476	0.57732	-5.712311
THOC6	0.1443961	8.3166707	1.2019812	0.2600691	0.57732	-5.712376

STX4	0.1914157	8.5374446	1.2019649	0.2600751	0.57732	-5.712395
FAM96B	0.0813984	10.522334	1.2019521	0.2600799	0.57732	-5.712409
ZNF48	-0.076023	7.0138073	-1.201748	0.2601552	0.57736	-5.712637
DDX55	-0.133883	10.019261	-1.201535	0.2602338	0.57736	-5.712875
TMEM87A	-0.104519	10.793273	-1.201464	0.26026	0.57736	-5.712955
PP12613	0.1145626	6.9787522	1.2013774	0.2602918	0.57736	-5.713051
GNPTAB	-0.096119	8.085592	-1.201329	0.2603098	0.57736	-5.713105
MED28	-0.084431	10.102336	-1.201121	0.2603863	0.57736	-5.713337
GUCY1A3	0.0793781	6.8011789	1.2010321	0.2604192	0.57736	-5.713436
PSME2	-0.109887	12.686201	-1.201	0.260431	0.57736	-5.713472
MAN2A1	0.1192827	7.4592396	1.2009317	0.2604563	0.57736	-5.713549
SRD5A3	-0.083762	7.0355661	-1.200828	0.2604945	0.57736	-5.713664
NCOA2	0.0920541	6.8868901	1.2004006	0.2606523	0.57762	-5.714142
ARNTL	-0.085027	6.7791942	-1.199972	0.2608106	0.57777	-5.71462
NBPF10	0.3598298	10.487089	1.1999137	0.2608322	0.57777	-5.714685
NDUFV2	0.1245722	11.747978	1.1998964	0.2608386	0.57777	-5.714704
MRPS10	0.108389	10.748362	1.1995738	0.2609578	0.5779	-5.715064
RASAL3	-0.075963	8.380802	-1.19953	0.2609742	0.5779	-5.715113
SEMA4D	-0.100736	9.1474502	-1.199173	0.2611059	0.57804	-5.715511
SETBP1	0.1026068	7.2724059	1.1991455	0.2611162	0.57804	-5.715542
IP6K2	-0.08787	7.7686253	-1.198839	0.2612296	0.5782	-5.715884
ATF6	0.1231432	9.4797831	1.1985759	0.2613269	0.57833	-5.716177
MBNL2	-0.14293	7.6575044	-1.198418	0.2613855	0.57837	-5.716354
PAPOLG	-0.087672	6.9838755	-1.198034	0.2615276	0.5786	-5.716782
TRIM62	-0.101576	6.9637798	-1.197851	0.2615952	0.57866	-5.716985
ST7L	-0.075925	6.8890541	-1.197531	0.2617138	0.57883	-5.717342
RNF138	0.1302385	8.7530063	1.1972936	0.2618018	0.57894	-5.717607
AMT	-0.164088	7.3089269	-1.196594	0.2620614	0.57943	-5.718386
ZNF565	-0.084398	7.0153044	-1.196153	0.2622248	0.57967	-5.718877
TOP2A	0.1177323	10.789373	1.1960834	0.2622507	0.57967	-5.718954
FOXP1	0.0745294	7.1495139	1.1952547	0.2625584	0.58023	-5.719877
UBN1	0.0827778	8.2981286	1.1950858	0.2626211	0.58023	-5.720065
LOC1001308	-0.092992	6.9130653	-1.195077	0.2626245	0.58023	-5.720075
ADRB1	0.0780776	6.818771	1.1948689	0.2627018	0.58031	-5.720306
CDK9	-0.081055	8.8648264	-1.194719	0.2627573	0.58035	-5.720472
CXCR2	-0.080609	6.9856451	-1.194451	0.262857	0.58048	-5.720771
AURKAIP1	-0.145658	12.803044	-1.193859	0.2630775	0.58087	-5.72143
KLC1	0.0765632	8.9606259	1.1935553	0.2631903	0.58087	-5.721767
SEMA5B	0.0765564	6.877367	1.1935017	0.2632103	0.58087	-5.721827
ZNF98	-0.082899	6.883924	-1.193449	0.2632298	0.58087	-5.721885
VPS11	-0.16939	7.6637348	-1.193437	0.2632344	0.58087	-5.721898
MYDGF	0.0915541	9.6801727	1.192527	0.2635733	0.58152	-5.72291
MERTK	-0.091852	7.0072945	-1.192357	0.2636367	0.58152	-5.723099

SPACA6	-0.079648	7.1764376	-1.192334	0.2636454	0.58152	-5.723125
ADO	0.0950824	9.47388	1.1920617	0.2637468	0.5816	-5.723427
MED17	0.0755085	7.3546929	1.1919698	0.263781	0.5816	-5.723529
LOC642980	0.0953859	7.0462991	1.1919133	0.2638021	0.5816	-5.723592
RIT1	0.1131623	7.5571826	1.1916492	0.2639006	0.58166	-5.723885
PACSIN1	-0.137464	7.335284	-1.19152	0.2639488	0.58166	-5.724028
TTC21A	-0.088995	7.3034798	-1.191514	0.2639511	0.58166	-5.724035
RENBP	0.0783187	6.7370499	1.1913105	0.264027	0.58174	-5.724261
C2orf48	0.0744449	6.8938642	1.1907578	0.2642333	0.58211	-5.724874
SLC16A9	-0.074353	6.7639347	-1.190333	0.2643919	0.58236	-5.725346
CCAR1	-0.122552	7.2838056	-1.190241	0.2644262	0.58236	-5.725447
DCAF8	0.1169265	9.4704106	1.1897	0.2646285	0.58272	-5.726048
KRT73	-0.082096	6.9771614	-1.189293	0.2647808	0.58278	-5.726499
HRH1	-0.090613	7.0530845	-1.189278	0.2647863	0.58278	-5.726516
RCC1L	0.082103	7.5366176	1.1891683	0.2648274	0.58278	-5.726638
ZBTB25	-0.095861	7.8263802	-1.189102	0.264852	0.58278	-5.72671
RAB3IP	-0.087723	8.9843654	-1.189052	0.2648711	0.58278	-5.726767
NOP56	-0.125712	10.701587	-1.188984	0.2648962	0.58278	-5.726842
HIST2H2AA3	-0.101885	7.9540538	-1.188819	0.2649582	0.58278	-5.727025
CDC42SE1	0.1112906	7.7114117	1.1887683	0.2649771	0.58278	-5.727081
HAGHL	-0.110466	7.7630058	-1.188556	0.2650564	0.58283	-5.727316
DNHD1	-0.09218	7.0110988	-1.188502	0.2650766	0.58283	-5.727376
CSNK1G3	0.1148608	8.0665093	1.1883156	0.2651465	0.58289	-5.727583
NKTR	-0.188686	8.5016342	-1.187992	0.2652678	0.58307	-5.727942
DUSP12	0.0969328	10.755895	1.1876875	0.2653818	0.58309	-5.728279
PPP1R7	0.1067353	9.3656916	1.1876772	0.2653857	0.58309	-5.72829
STX8	-0.112372	9.9153569	-1.187652	0.2653951	0.58309	-5.728318
FOXN3	0.1108817	8.1532175	1.1872353	0.2655513	0.58327	-5.728779
NAGK	0.0844487	9.2137837	1.1871858	0.2655699	0.58327	-5.728834
ABLIM1	-0.073158	7.9125542	-1.187107	0.2655995	0.58327	-5.728922
SEC22C	0.0823644	8.417071	1.1864393	0.2658499	0.58373	-5.729661
C5orf34	-0.114736	7.3987395	-1.186328	0.2658917	0.58374	-5.729784
LOC729609	-0.108689	6.9473709	-1.186048	0.2659966	0.58382	-5.730094
DUSP8	0.1421636	7.1078759	1.1860134	0.2660097	0.58382	-5.730132
SLC44A1	0.1121071	9.299263	1.1859084	0.2660492	0.58382	-5.730248
ACBD4	-0.080437	7.1677846	-1.185518	0.2661957	0.58402	-5.73068
RECQL	0.1162146	8.3925562	1.1854111	0.266236	0.58402	-5.730799
CSNK1G2	-0.092659	11.776937	-1.185343	0.2662616	0.58402	-5.730874
VWA1	0.0868988	6.931368	1.1847576	0.2664816	0.58442	-5.731521
C3orf14	-0.075737	6.7606677	-1.184156	0.2667077	0.5848	-5.732186
AKR1B1	0.0961449	11.322396	1.1840848	0.2667346	0.5848	-5.732265
SLC18B1	-0.099181	6.7900913	-1.183813	0.266837	0.58493	-5.732566
ZNF205	0.079299	6.8742313	1.1835821	0.2669238	0.58503	-5.732821

POU2F3	0.0768831	6.853618	1.183381	0.2669995	0.58503	-5.733043
LRRC8D	0.0946602	8.2568939	1.1833042	0.2670285	0.58503	-5.733128
AOC2	0.0844957	6.8978549	1.1832716	0.2670407	0.58503	-5.733164
LINC00667	-0.096036	8.0512767	-1.182566	0.2673066	0.58552	-5.733943
FBXO33	-0.180023	9.1577872	-1.182141	0.2674668	0.58579	-5.734412
NRTN	0.10163	6.7298538	1.1819867	0.267525	0.58583	-5.734583
SIRT7	-0.079902	7.5702681	-1.181511	0.2677044	0.58613	-5.735107
TMEM11	-0.122408	7.681718	-1.181244	0.2678051	0.58616	-5.735402
ZNF479	-0.074804	6.8664213	-1.1812	0.2678218	0.58616	-5.735451
SPANXB1	0.0765673	6.9033787	1.1810946	0.2678616	0.58616	-5.735567
SF1	0.092814	7.3421857	1.1810467	0.2678797	0.58616	-5.73562
DOCK7	0.1135077	8.7548567	1.1807928	0.2679756	0.58621	-5.7359
NRG4	-0.103871	7.435858	-1.180778	0.2679814	0.58621	-5.735917
RN7SK	-0.105178	8.1812747	-1.180648	0.2680302	0.58621	-5.73606
TAF4B	-0.106628	7.8151304	-1.180456	0.2681028	0.58621	-5.736272
SLC7A5P1	-0.083375	6.8901319	-1.180384	0.26813	0.58621	-5.736351
NME2	-0.078245	8.4604319	-1.180341	0.2681462	0.58621	-5.736398
CEP97	-0.095873	6.8289352	-1.180171	0.2682105	0.58621	-5.736586
IFITM3	-0.121682	7.099013	-1.180074	0.2682473	0.58621	-5.736693
AGAP1	-0.101921	6.7823463	-1.180003	0.2682742	0.58621	-5.736772
ING2	0.0912915	8.7995897	1.1799217	0.2683048	0.58621	-5.736861
ZKSCAN8	0.115081	7.2072079	1.1795549	0.2684435	0.58639	-5.737265
MSANTD4	0.0989332	9.1925167	1.1794932	0.2684668	0.58639	-5.737333
NUFIP1	0.0977996	7.905243	1.1788292	0.2687181	0.58667	-5.738065
LOC729451	-0.102596	6.9216681	-1.178813	0.2687242	0.58667	-5.738083
GPD1	0.0984069	6.9252974	1.1787481	0.2687487	0.58667	-5.738154
ZSWIM4	0.079472	7.8343977	1.1787338	0.2687542	0.58667	-5.73817
NUBP2	0.1041221	7.5173145	1.178607	0.2688021	0.58669	-5.73831
SNORD42B	-0.134208	7.0429641	-1.178278	0.2689266	0.58687	-5.738672
SDHAP3	-0.079245	7.014052	-1.177566	0.2691966	0.58731	-5.739456
ELMO1	0.0887691	7.8991762	1.1775302	0.2692101	0.58731	-5.739496
YWHAE	0.1836856	9.0690381	1.1773815	0.2692665	0.58735	-5.739659
TRAPPC8	-0.119103	9.2305647	-1.177085	0.2693789	0.58738	-5.739986
LINC00909	-0.116261	8.0922372	-1.177055	0.2693903	0.58738	-5.740019
SALL2	0.0810207	6.9474636	1.1770193	0.2694038	0.58738	-5.740058
PPP4R3B	0.1082967	9.4997747	1.1764128	0.269634	0.58771	-5.740725
GBE1	0.0985703	9.1404237	1.1764125	0.2696341	0.58771	-5.740726
PIP5K1A	0.0879686	7.1977936	1.1762507	0.2696955	0.58771	-5.740904
CAPN10	-0.087144	6.8486953	-1.176143	0.2697363	0.58771	-5.741022
FAM159A	0.1033597	6.9283213	1.1759837	0.2697969	0.58771	-5.741197
C18orf54	0.1040187	7.246916	1.1759644	0.2698042	0.58771	-5.741219
LRRC57	-0.115998	7.911785	-1.17564	0.2699274	0.58771	-5.741575
DNAL4	0.101387	8.5318586	1.1756214	0.2699345	0.58771	-5.741596

CSRP2	0.086206	6.9511882	1.1755923	0.2699455	0.58771	-5.741628
FRAT2	0.0775065	8.4075822	1.1755209	0.2699727	0.58771	-5.741706
HELLS	-0.103054	8.0991378	-1.175445	0.2700015	0.58771	-5.74179
GSAP	-0.082818	6.9535165	-1.175275	0.2700662	0.58771	-5.741977
BIN3	-0.078448	7.098618	-1.174987	0.2701757	0.58771	-5.742293
ABHD8	0.0906573	7.6832444	1.1749194	0.2702013	0.58771	-5.742367
ACTRT2	0.0798232	6.8252722	1.1747954	0.2702484	0.58771	-5.742504
NBPF4	-0.092992	6.8977406	-1.174652	0.2703029	0.58771	-5.742661
SLC4A1AP	0.0985484	7.9020811	1.17459	0.2703266	0.58771	-5.74273
RPL28	-0.079774	8.8423876	-1.174339	0.270422	0.58771	-5.743005
TMEM50A	-0.092802	8.266667	-1.174031	0.2705392	0.58771	-5.743344
DNM1L	0.1302022	9.0141925	1.1739741	0.2705609	0.58771	-5.743406
HARBI1	-0.08043	6.9928242	-1.173785	0.2706327	0.58771	-5.743613
ZNF76	0.1151008	7.3650353	1.1737818	0.2706341	0.58771	-5.743617
ENTPD1	0.0782413	6.9990901	1.1737626	0.2706414	0.58771	-5.743638
ZNF646	0.0882062	7.0134014	1.1737024	0.2706643	0.58771	-5.743705
NAA35	-0.080337	7.8057556	-1.173646	0.2706858	0.58771	-5.743767
QPCT	-0.095527	7.0140653	-1.173581	0.2707105	0.58771	-5.743838
ABHD11	0.0812233	7.4005931	1.1735585	0.2707191	0.58771	-5.743863
SPIN1	0.1515743	7.4182794	1.1734821	0.2707482	0.58771	-5.743947
EIF4A1	0.1198748	12.751342	1.1734548	0.2707586	0.58771	-5.743977
PRAC2	-0.093479	6.8888102	-1.173368	0.2707915	0.58771	-5.744071
WNK4	0.07819	6.7554735	1.1733118	0.270813	0.58771	-5.744134
NT5C3A	-0.115098	9.6847074	-1.173156	0.2708723	0.58771	-5.744304
TMEM184B	0.1026275	7.6894455	1.1731308	0.270882	0.58771	-5.744332
RASL10B	-0.080064	6.8286624	-1.17299	0.2709356	0.58774	-5.744487
FEZ2	0.0973812	9.6430902	1.1728468	0.2709902	0.58775	-5.744644
PMCHL2	0.0783721	6.7763723	1.1726951	0.271048	0.58775	-5.744811
SFRP1	0.0940627	6.8659136	1.1726598	0.2710615	0.58775	-5.744849
PJA1	0.0764604	7.4629713	1.1725088	0.271119	0.58777	-5.745015
CREBL2	-0.124355	7.1730605	-1.172274	0.2712085	0.58777	-5.745272
ENGASE	-0.089101	7.0556961	-1.172243	0.2712204	0.58777	-5.745307
RAB20	0.0808912	6.765546	1.1722184	0.2712298	0.58777	-5.745334
KLF1	-0.07472	6.8557851	-1.172076	0.2712839	0.5878	-5.745489
ART1	0.0952284	7.1685446	1.1719337	0.2713384	0.58783	-5.745646
C8orf31	0.091603	6.8513777	1.1716531	0.2714454	0.58788	-5.745954
ALMS1P1	0.0860282	6.9544931	1.1716222	0.2714572	0.58788	-5.745988
CLIC4	-0.088345	9.7657217	-1.171556	0.2714823	0.58788	-5.74606
SLC22A17	-0.088055	7.0876628	-1.171416	0.271536	0.58791	-5.746214
BIVM	-0.079421	7.5517273	-1.171092	0.2716596	0.58809	-5.746569
GCM2	0.0805641	6.8394957	1.1708853	0.2717386	0.58817	-5.746796
HBBP1	0.1139655	7.3230098	1.1706122	0.2718429	0.58831	-5.747095
PIGA	-0.111397	8.0552262	-1.170158	0.2720164	0.5886	-5.747593

ATAD1	0.0990053	8.9761994	1.1694988	0.2722685	0.58904	-5.748315
SPCS1	-0.099234	12.036023	-1.169365	0.2723197	0.58904	-5.748462
C8G	-0.084022	6.7889605	-1.169309	0.2723411	0.58904	-5.748523
RING1	-0.174631	10.788667	-1.168856	0.2725144	0.58932	-5.749019
RPTOR	0.0948025	7.0522058	1.1687165	0.2725679	0.58935	-5.749172
RCN2	-0.104173	10.11498	-1.16834	0.272712	0.58958	-5.749584
LOC1005061	0.0935373	7.1186498	1.1681656	0.2727789	0.58959	-5.749775
GMPPA	0.0971542	8.1984194	1.1681079	0.272801	0.58959	-5.749838
CFL1	0.0955821	13.05289	1.1679004	0.2728805	0.58967	-5.750065
PLPP6	0.0864512	7.5827294	1.1677306	0.2729456	0.58967	-5.750251
FLI1	-0.202873	8.3229025	-1.167698	0.272958	0.58967	-5.750287
PACRGL	-0.07877	6.8954829	-1.167594	0.2729981	0.58967	-5.750401
PRRG4	0.1045696	7.2044242	1.1673909	0.2730759	0.58973	-5.750623
PPP1R35	-0.145198	9.4709102	-1.167251	0.2731296	0.58973	-5.750776
PVT1	-0.094043	7.7795761	-1.167158	0.273165	0.58973	-5.750877
RRP15	-0.170921	9.4899148	-1.167086	0.2731929	0.58973	-5.750957
WDHD1	-0.079884	7.2340569	-1.166998	0.2732266	0.58973	-5.751053
EIF2S3	0.0911469	12.024482	1.166705	0.2733389	0.58981	-5.751373
NCF1C	0.0949222	9.7779885	1.1666828	0.2733475	0.58981	-5.751397
ASPHD2	0.0991338	8.4927152	1.1656747	0.2737346	0.59039	-5.752499
RGS19	0.1167021	9.4953442	1.1655455	0.2737842	0.59039	-5.752641
HIST1H2BC	0.0912776	7.1437638	1.1653937	0.2738425	0.59039	-5.752806
PKD2	-0.08775	7.6494044	-1.16538	0.2738476	0.59039	-5.752821
EIF2AK1	0.0746518	9.6284935	1.1653337	0.2738656	0.59039	-5.752872
LINC01089	-0.090902	6.9491525	-1.165329	0.2738672	0.59039	-5.752877
SLC22A5	-0.094438	7.424671	-1.1652	0.2739169	0.59039	-5.753018
RNF185	0.0818374	7.3533968	1.1651137	0.2739502	0.59039	-5.753112
WDR5B	-0.08976	6.9129067	-1.165042	0.2739776	0.59039	-5.75319
PRKCZ	-0.07327	8.0770631	-1.164677	0.2741183	0.59059	-5.75359
C2orf68	-0.084187	7.3116803	-1.164586	0.2741532	0.59059	-5.753689
TWF1	-0.081421	7.189528	-1.164471	0.2741975	0.59059	-5.753815
AKAP10	-0.078138	7.4814403	-1.164374	0.2742347	0.59059	-5.75392
SIRT5	-0.07324	7.9817447	-1.164277	0.274272	0.59059	-5.754026
PARP12	-0.095844	6.9080811	-1.164109	0.2743366	0.59064	-5.75421
CXorf57	-0.100552	9.2379959	-1.163755	0.274473	0.59066	-5.754596
RTCB	0.1101349	10.073683	1.1637432	0.2744774	0.59066	-5.754609
ARHGAP9	-0.070508	7.9439715	-1.163681	0.2745012	0.59066	-5.754676
MAPRE2	0.101167	9.3231694	1.1636595	0.2745097	0.59066	-5.7547
GIMAP6	0.0818617	6.8221007	1.1635209	0.274563	0.59069	-5.754851
PANK4	0.1034519	7.8145826	1.163264	0.274662	0.59082	-5.755132
ATG10	0.1155143	7.7287222	1.163028	0.2747529	0.59084	-5.755389
IL12RB2	0.0844327	6.866415	1.1629151	0.2747964	0.59084	-5.755513
CHST14	0.1156517	7.5284066	1.1628963	0.2748036	0.59084	-5.755533

SLC25A39	-0.139354	12.214042	-1.162796	0.2748422	0.59084	-5.755642
SH3GL1	-0.123825	8.3094105	-1.162708	0.2748764	0.59084	-5.755739
CYP2D6	-0.09283	6.8574546	-1.16224	0.2750568	0.591	-5.756249
LIPA	-0.113892	10.176435	-1.162202	0.2750715	0.591	-5.756291
PNPLA4	0.0740916	7.1485601	1.1621828	0.2750788	0.591	-5.756311
SLC16A1	-0.124295	7.0331624	-1.161886	0.2751932	0.591	-5.756635
LRIG2	-0.103633	7.6434409	-1.161657	0.2752817	0.591	-5.756885
UBALD1	0.1365834	7.341141	1.1616489	0.2752848	0.591	-5.756893
GAS2L1	-0.082656	6.815915	-1.161595	0.2753056	0.591	-5.756952
MAMLD1	-0.085955	6.7750926	-1.161544	0.2753253	0.591	-5.757008
UPK3BL	-0.28979	9.929548	-1.161475	0.2753518	0.591	-5.757083
UBE2Q1	-0.090054	9.2222269	-1.16134	0.2754039	0.591	-5.75723
COG2	-0.146293	9.2533666	-1.161333	0.2754067	0.591	-5.757238
NUP85	-0.133982	10.168965	-1.16126	0.275435	0.591	-5.757318
PSMB10	-0.125096	13.010957	-1.161075	0.2755063	0.59106	-5.757519
MYL12A	0.1530935	11.734228	1.1608368	0.2755983	0.59118	-5.757778
YAP1	-0.07894	6.76153	-1.160265	0.2758191	0.59156	-5.758401
IRX1	0.0947552	8.0036965	1.1595855	0.276082	0.59204	-5.759141
RSU1	-0.105145	8.2803556	-1.159386	0.2761592	0.59211	-5.759358
C15orf40	-0.09836	7.5487326	-1.159295	0.2761944	0.59211	-5.759457
RNA5S9	-0.185204	9.2924654	-1.158838	0.2763713	0.5924	-5.759955
HSPA4	-0.097511	9.4298347	-1.158671	0.276436	0.59245	-5.760137
SPARCL1	-0.117266	8.7129027	-1.15836	0.2765563	0.59262	-5.760474
PDZD8	0.0823612	7.8692624	1.1579898	0.2766998	0.59284	-5.760877
UBXN2B	0.0902253	8.3713307	1.1577741	0.2767834	0.59286	-5.761112
MANSC1	-0.098913	6.8429063	-1.157753	0.2767916	0.59286	-5.761135
HIGD2A	0.1121447	11.651933	1.1574334	0.2769155	0.59304	-5.761482
UNC13B	-0.088916	6.9434391	-1.157273	0.2769778	0.59309	-5.761657
SC5D	0.1093117	9.1265872	1.156559	0.2772547	0.59359	-5.762433
LDLRAD3	0.0782801	6.8259522	1.1560208	0.2774637	0.59393	-5.763017
MUC4	0.0908427	7.0340408	1.1559464	0.2774926	0.59393	-5.763098
ARL13B	-0.106941	7.2072094	-1.155709	0.2775849	0.59404	-5.763356
LYRM4	-0.11433	9.0401297	-1.155526	0.2776559	0.5941	-5.763555
PROSER1	0.1207094	9.8928909	1.1551196	0.2778139	0.59433	-5.763996
ADARB1	-0.079369	6.9544709	-1.155051	0.2778406	0.59433	-5.764071
FBL	-0.161821	12.047661	-1.154521	0.2780466	0.59463	-5.764646
HOGA1	0.0860006	6.7372953	1.1544725	0.2780655	0.59463	-5.764698
SNX11	0.0819899	8.8172295	1.1542445	0.2781542	0.59473	-5.764946
UBE2B	0.0809178	7.1315226	1.1540286	0.2782382	0.59483	-5.76518
C12orf10	-0.164658	10.578332	-1.153836	0.2783132	0.59487	-5.765389
SPAG9	0.0843675	8.2548186	1.1537719	0.2783382	0.59487	-5.765458
NOL11	-0.103363	10.904968	-1.153312	0.2785173	0.59516	-5.765957
ATRAID	0.0960225	10.729894	1.1531626	0.2785755	0.5952	-5.766119

APOL6	0.0950063	7.0894096	1.1528913	0.2786812	0.59534	-5.766413
ST13P4	-0.086812	8.9488608	-1.152589	0.2787992	0.5955	-5.766741
MIR302D	-0.141478	6.9021336	-1.152452	0.2788524	0.59553	-5.766889
DCLRE1A	-0.129946	7.7310788	-1.152319	0.2789042	0.59555	-5.767033
FLVCR1	0.0929535	7.3250122	1.1518113	0.2791024	0.59589	-5.767584
CCDC93	-0.078765	7.9389654	-1.151637	0.2791703	0.59591	-5.767772
FGF18	0.091306	7.2080339	1.1515793	0.2791929	0.59591	-5.767835
ATP2B4	0.0740135	7.8441261	1.1511603	0.2793565	0.59606	-5.768289
RNF123	0.1440324	8.8167324	1.1511116	0.2793755	0.59606	-5.768341
PPM1N	0.0947567	6.9849932	1.1510784	0.2793885	0.59606	-5.768377
NGLY1	-0.11666	9.5252606	-1.15092	0.2794504	0.59611	-5.768549
RAB14	0.1240148	7.1058146	1.150765	0.2795109	0.59612	-5.768717
CLINT1	0.0852605	10.348219	1.1507027	0.2795352	0.59612	-5.768784
TINF2	-0.101399	9.7230172	-1.15049	0.2796184	0.59621	-5.769015
CRYZL1	-0.074903	7.7392038	-1.150207	0.2797288	0.59635	-5.76932
SNORD95	-0.078315	7.221521	-1.150083	0.2797774	0.59637	-5.769455
SIX4	-0.072478	6.7890512	-1.149779	0.2798961	0.59654	-5.769783
MTX3	0.1281919	8.3309955	1.1491763	0.2801321	0.59662	-5.770436
MOAP1	-0.127968	8.4892165	-1.149171	0.2801343	0.59662	-5.770442
OSBP	0.0892394	10.645603	1.1491013	0.2801614	0.59662	-5.770517
SOD1	0.0968425	13.155836	1.1490767	0.2801711	0.59662	-5.770543
MYD88	0.093951	8.3735768	1.1489031	0.280239	0.59662	-5.770731
ART4	-0.099668	6.9758587	-1.148834	0.2802659	0.59662	-5.770805
CDS1	-0.075628	6.7392561	-1.148772	0.2802903	0.59662	-5.770873
SEPSECS	-0.099275	6.7755867	-1.148755	0.2802969	0.59662	-5.770891
LRCH1	0.0736471	6.8694811	1.1487342	0.2803051	0.59662	-5.770914
ZNF345	0.0757917	6.8447593	1.148169	0.2805265	0.59701	-5.771525
S100A9	-0.091213	6.8424931	-1.147874	0.280642	0.59709	-5.771843
SYNGR4	0.0816502	6.7994219	1.1478617	0.2806469	0.59709	-5.771857
IPO11	-0.135165	9.8529049	-1.147585	0.2807553	0.59723	-5.772155
THG1L	0.0815654	7.6268854	1.1466488	0.2811226	0.59793	-5.773167
MAP4K3	0.1164837	7.4524278	1.1463202	0.2812516	0.59812	-5.773522
SMUG1	-0.126538	9.3751457	-1.146002	0.2813764	0.59829	-5.773865
FLAD1	0.1005571	8.3480353	1.1456754	0.2815048	0.59848	-5.774217
RNY3	-0.143532	8.4548962	-1.14541	0.2816092	0.59861	-5.774504
TMEM19	0.0721449	7.8203658	1.1452873	0.2816573	0.59863	-5.774636
TBCCD1	0.073065	7.3233784	1.1448245	0.2818393	0.59882	-5.775135
TIRAP	0.0708896	6.8958648	1.144705	0.2818863	0.59882	-5.775264
SEMA3F	0.0849295	6.9574427	1.1446584	0.2819046	0.59882	-5.775314
TSGA10	-0.082015	6.8335284	-1.144643	0.2819108	0.59882	-5.775331
LINC00599	-0.105901	6.909884	-1.144359	0.2820226	0.59897	-5.775638
LRRC37A	0.1026688	7.0063599	1.1438705	0.2822146	0.59929	-5.776164
SH2D1B	0.0887715	6.9191263	1.1434683	0.282373	0.59954	-5.776597

KLRC3	-0.134699	6.8496724	-1.143354	0.282418	0.59955	-5.77672
DLG1	-0.104107	7.0881127	-1.142937	0.2825821	0.59973	-5.777169
DNAJC5G	-0.085371	6.8523267	-1.14274	0.2826598	0.59973	-5.777381
PITPNM1	0.1651089	8.9937022	1.1426983	0.2826764	0.59973	-5.777427
LINC01124	0.0843833	6.72071	1.1426906	0.2826794	0.59973	-5.777435
TIMM10	-0.10652	10.412854	-1.142487	0.2827597	0.59973	-5.777654
FKBP8	0.0990164	7.1762123	1.14246	0.2827703	0.59973	-5.777683
IGHMBP2	-0.072283	7.0725567	-1.142412	0.2827892	0.59973	-5.777735
SPTBN2	0.0748867	6.8678767	1.1417601	0.2830464	0.60018	-5.778437
JAML	-0.091363	6.9571368	-1.141292	0.2832313	0.60037	-5.778941
SERPINB11	0.0991966	6.8079181	1.1412225	0.2832586	0.60037	-5.779015
MRPL40	-0.078201	9.5598519	-1.141166	0.2832808	0.60037	-5.779076
DLST	0.1005441	8.7727356	1.1411177	0.2833	0.60037	-5.779128
SERPINB1	0.0882588	6.8321502	1.1409177	0.283379	0.60045	-5.779343
RBM18	-0.096783	8.6075542	-1.140418	0.2835766	0.60078	-5.779881
TMEM54	0.0794731	6.7638921	1.1402453	0.2836446	0.60079	-5.780066
GOLGA8B	-0.170447	8.3947917	-1.140198	0.2836633	0.60079	-5.780117
CHST11	-0.105853	6.9739007	-1.139999	0.2837421	0.60087	-5.780332
PDPN	0.092707	6.8049883	1.139009	0.2841336	0.60152	-5.781395
SGO2	-0.120154	7.7068792	-1.138946	0.2841585	0.60152	-5.781463
CUL4B	-0.09373	7.5569603	-1.138917	0.2841699	0.60152	-5.781494
LRP12	-0.083439	6.9027193	-1.138769	0.2842286	0.60155	-5.781653
HERC2P2	-0.075978	6.9345358	-1.138506	0.2843326	0.60164	-5.781935
ANGPTL6	-0.093639	7.5711798	-1.138463	0.2843498	0.60164	-5.781982
ANXA10	-0.117373	6.8899721	-1.138307	0.2844115	0.60168	-5.782149
SPN	0.0894363	7.1262449	1.1378553	0.2845906	0.60195	-5.782634
COG1	0.0824969	7.3073999	1.1377798	0.2846205	0.60195	-5.782715
UBTD2	-0.082496	7.7101462	-1.13735	0.2847909	0.60222	-5.783177
TRIP11	0.1442647	7.8222373	1.1371315	0.2848775	0.60226	-5.783411
MIER3	-0.089862	6.960694	-1.13709	0.2848941	0.60226	-5.783456
SNORD11B	-0.083473	7.2925545	-1.136924	0.2849599	0.60226	-5.783634
HIST1H2AG	-0.085019	6.9151603	-1.136889	0.2849737	0.60226	-5.783671
CENPW	-0.123239	9.3889822	-1.13671	0.2850448	0.60226	-5.783864
PDHA1	0.1077683	10.841277	1.1366579	0.2850654	0.60226	-5.783919
METTL8	-0.089422	6.9056024	-1.136573	0.2850989	0.60226	-5.78401
TPCN2	-0.106938	7.3032331	-1.136432	0.285155	0.60229	-5.784161
CASP4	-0.081491	7.0701386	-1.136167	0.2852601	0.60243	-5.784445
SFPQ	-0.121246	8.6676993	-1.135864	0.2853806	0.60259	-5.784771
ECHDC3	0.0762179	6.8978677	1.1356804	0.2854535	0.60266	-5.784967
NUCB2	-0.152547	8.9879575	-1.134935	0.2857497	0.6032	-5.785766
SLC35A5	-0.201867	8.938434	-1.134439	0.2859469	0.60353	-5.786298
ASB4	-0.081374	6.8396588	-1.133556	0.2862985	0.60418	-5.787244
GUCA1B	-0.078702	6.9784639	-1.133191	0.286444	0.6044	-5.787635

ARHGAP4	0.0916779	9.2334024	1.1330036	0.2865184	0.60447	-5.787835
DLK2	0.0874138	6.9732176	1.1328618	0.2865749	0.6045	-5.787986
RPL12	-0.108182	13.72824	-1.132237	0.2868239	0.60494	-5.788655
MAP2K6	-0.077208	6.9090797	-1.131449	0.2871382	0.60525	-5.789497
ABHD1	0.0869315	6.8440487	1.1314245	0.2871481	0.60525	-5.789524
DBT	0.0869176	7.6639429	1.131241	0.2872214	0.60525	-5.78972
DHRS4-AS1	-0.071133	7.3325941	-1.131113	0.2872727	0.60525	-5.789857
CNMD	-0.081579	6.9564614	-1.131094	0.28728	0.60525	-5.789877
HOXD11	-0.100159	6.9636254	-1.131085	0.2872835	0.60525	-5.789886
IPCEF1	0.1405504	7.1201182	1.1309668	0.2873308	0.60525	-5.790013
RASSF2	-0.211828	9.6434751	-1.130941	0.287341	0.60525	-5.79004
MIEN1	-0.089059	7.3271614	-1.130932	0.2873447	0.60525	-5.79005
USP25	-0.089802	7.104373	-1.130808	0.2873942	0.60527	-5.790182
IRF6	0.1317514	6.9964848	1.1306371	0.2874625	0.60533	-5.790365
RFTN1	0.090937	12.452507	1.1300876	0.2876821	0.60564	-5.790952
CEACAM19	0.0789897	6.9089343	1.1300574	0.2876941	0.60564	-5.790984
DHX34	-0.097407	8.4036493	-1.129933	0.287744	0.60566	-5.791118
UTRN	-0.082795	7.0214895	-1.129751	0.2878165	0.60571	-5.791311
RP9P	0.0720373	6.8393795	1.1296624	0.2878521	0.60571	-5.791406
CACNA1C-AS	0.1085969	7.0910667	1.1293002	0.287997	0.60593	-5.791793
CLTA	-0.097951	10.50695	-1.129107	0.2880743	0.606	-5.791999
ALG10	0.0770213	7.2375516	1.1288971	0.2881582	0.60605	-5.792223
RPL6	-0.075846	13.054234	-1.12867	0.2882491	0.60605	-5.792465
CD79B	0.0881265	12.445511	1.1286641	0.2882515	0.60605	-5.792472
SNORD11	-0.111681	7.6973317	-1.128546	0.2882989	0.60605	-5.792598
RAET1E	-0.117463	6.9317839	-1.128532	0.2883043	0.60605	-5.792613
PPP1R3F	0.0759105	7.4372921	1.1284015	0.2883566	0.60607	-5.792752
TTC4	-0.102064	10.852945	-1.127652	0.2886568	0.60662	-5.793551
KMT2B	0.10531	8.327273	1.1274396	0.2887421	0.60664	-5.793778
PRSS2	-0.137231	6.8737902	-1.12742	0.2887501	0.60664	-5.793799
NOMO3	-0.101094	7.2468632	-1.127168	0.288851	0.60676	-5.794068
PDK2	0.0953711	7.0429153	1.1268809	0.2889661	0.60692	-5.794374
WNT2B	0.0845249	6.8949119	1.1257587	0.2894165	0.60764	-5.795569
CEP72	0.0972246	7.3756175	1.125601	0.2894799	0.60764	-5.795737
CACNA1E	0.0798168	6.7491843	1.1255201	0.2895123	0.60764	-5.795824
RPS29	-0.081767	13.247258	-1.125404	0.289559	0.60764	-5.795947
IQCG	0.0860722	7.0168753	1.1253279	0.2895896	0.60764	-5.796028
MIR204	-0.072479	6.8639862	-1.125277	0.2896101	0.60764	-5.796083
CNOT8	-0.176776	8.1511747	-1.125058	0.2896979	0.60764	-5.796315
ABCC13	-0.073456	6.8817804	-1.124986	0.2897269	0.60764	-5.796392
URB1	0.1003454	7.2414921	1.124968	0.2897342	0.60764	-5.796411
C20orf96	-0.084318	6.8730402	-1.124908	0.2897582	0.60764	-5.796475
HDAC10	-0.10425	6.869982	-1.124887	0.2897666	0.60764	-5.796497

HMOX2	0.1099395	7.0086718	1.1244419	0.2899457	0.60777	-5.796971
COL5A2	-0.075969	6.8455557	-1.124441	0.2899459	0.60777	-5.796972
MIR101-2	-0.071907	6.8833608	-1.124329	0.2899911	0.60777	-5.797091
WEE2-AS1	-0.078125	6.9659585	-1.124318	0.2899956	0.60777	-5.797103
LRCH4	-0.13744	8.170064	-1.123826	0.2901935	0.60809	-5.797627
EXOSC4	0.0949334	9.2406267	1.123176	0.2904552	0.60855	-5.798318
TTYH3	0.0844532	6.9187429	1.1229434	0.2905489	0.60866	-5.798565
IL10	-0.118932	9.5345901	-1.122587	0.2906924	0.60873	-5.798944
RAD17	-0.082641	7.6669522	-1.122543	0.2907102	0.60873	-5.798991
KCNMB2	0.0755803	7.0992111	1.1224824	0.2907346	0.60873	-5.799055
CLOCK	0.0818285	7.4734136	1.1224479	0.2907486	0.60873	-5.799092
ZSCAN20	0.0990853	7.017887	1.122128	0.2908775	0.60885	-5.799432
ZNF350	-0.083541	6.7282123	-1.122106	0.2908865	0.60885	-5.799455
SNRPB	0.0805531	12.327557	1.1219241	0.2909598	0.60891	-5.799648
DR1	-0.170665	9.1552312	-1.121535	0.2911169	0.60915	-5.800062
SPRR1A	0.0934549	7.5126238	1.1214053	0.291169	0.60918	-5.8002
TDRKH	0.0822097	7.1158227	1.1211937	0.2912544	0.60927	-5.800424
NBPF11	-0.087029	7.9990771	-1.120917	0.2913662	0.60941	-5.800718
MX2	0.0860964	6.8813118	1.1202708	0.2916271	0.60971	-5.801404
FOXC1	-0.105138	6.941143	-1.120108	0.291693	0.60971	-5.801577
FAM83C	-0.105422	6.8913232	-1.119994	0.2917391	0.60971	-5.801698
METRN	0.0870798	6.85964	1.1199393	0.2917611	0.60971	-5.801756
TMC6	0.1171759	8.5458864	1.1199176	0.2917699	0.60971	-5.801779
LOC100507(	-0.137144	7.1618602	-1.119894	0.2917793	0.60971	-5.801803
ADCY4	-0.084938	6.8029508	-1.119845	0.2917991	0.60971	-5.801855
LINC01132	-0.075258	6.9825082	-1.119373	0.2919899	0.61002	-5.802356
MIR498	-0.069187	6.9383982	-1.119245	0.2920417	0.61004	-5.802492
MSTO1	-0.157479	8.4145554	-1.119035	0.2921267	0.61013	-5.802715
ALAS2	-0.081444	6.868217	-1.117696	0.2926687	0.61117	-5.804133
APBB3	-0.143103	8.0205355	-1.116777	0.2930414	0.61187	-5.805107
SAP18	-0.090681	8.0490369	-1.11655	0.2931335	0.61197	-5.805347
ZNF140	-0.095677	7.114002	-1.116439	0.2931787	0.61198	-5.805466
C1RL	0.0883251	6.9555077	1.1162478	0.2932561	0.61205	-5.805667
PBDC1	-0.097691	9.9249261	-1.11486	0.2938196	0.61309	-5.807135
RNU2-1	0.080315	6.9808003	1.1148189	0.2938364	0.61309	-5.807179
PCYOX1	0.0944504	7.7074709	1.114434	0.2939929	0.61327	-5.807586
CELSR2	0.0812533	6.81258	1.114395	0.2940087	0.61327	-5.807627
ZNF829	-0.081632	6.8535688	-1.113988	0.2941744	0.61347	-5.808057
MIR557	-0.086297	7.0767486	-1.113951	0.2941892	0.61347	-5.808096
CXorf36	0.1027766	7.134927	1.1134755	0.2943828	0.61376	-5.808599
LCN12	0.0692832	6.8993359	1.1133369	0.2944392	0.61376	-5.808745
RAB9B	-0.080296	6.8112883	-1.113261	0.29447	0.61376	-5.808825
UBR7	-0.090076	8.6675815	-1.113203	0.2944938	0.61376	-5.808887

USP39	0.1214138	9.78008	1.1126371	0.2947242	0.6139	-5.809484
OR56B1	0.0841548	7.1022718	1.1125534	0.2947584	0.6139	-5.809572
BACE1	0.0751231	6.7471739	1.1125041	0.2947784	0.6139	-5.809625
RBPMS2	-0.119193	7.2540198	-1.112347	0.2948426	0.6139	-5.809791
DBP	0.0755677	7.9540535	1.1121736	0.2949131	0.6139	-5.809973
USP6NL	-0.118423	8.9213738	-1.112084	0.2949495	0.6139	-5.810067
CRLF3	-0.093131	8.954774	-1.112078	0.2949521	0.6139	-5.810074
SLF2	0.0937402	8.1410856	1.11198	0.294992	0.6139	-5.810178
NBR1	0.0981872	6.8335154	1.1119799	0.2949921	0.6139	-5.810178
RXFP3	-0.109189	6.8592907	-1.111884	0.295031	0.6139	-5.810279
A1BG	-0.100667	7.0542859	-1.111859	0.2950413	0.6139	-5.810305
UGGT2	0.1089703	6.9934491	1.1117958	0.2950672	0.6139	-5.810372
XAF1	0.0680063	7.5539079	1.111612	0.2951421	0.61397	-5.810566
CDK13	0.0808387	8.3483414	1.1114432	0.295211	0.614	-5.810744
ZNF41	-0.081732	6.9198547	-1.111372	0.29524	0.614	-5.810819
BRCA2	-0.076901	6.8279687	-1.110972	0.2954034	0.61425	-5.811241
MIR223	-0.082635	6.8972526	-1.110819	0.2954656	0.61429	-5.811402
ACTL6A	-0.096675	10.682886	-1.110651	0.2955342	0.61432	-5.811579
LRRC8B	0.1511171	9.1807125	1.1105795	0.2955634	0.61432	-5.811655
ELOB	0.0930758	10.351406	1.1102472	0.2956992	0.61451	-5.812005
VMP1	-0.156534	9.6828808	-1.110066	0.2957732	0.61458	-5.812196
MANEAL	-0.114545	7.4956358	-1.109234	0.2961134	0.61518	-5.813073
CELA3A	0.0807793	6.9375527	1.1090127	0.2962037	0.61518	-5.813306
SDHAP1	-0.080184	7.7538303	-1.109009	0.2962054	0.61518	-5.81331
BMPR1A	-0.131574	7.7536704	-1.10884	0.2962745	0.61518	-5.813488
PANK2	-0.096611	9.7397281	-1.108839	0.296275	0.61518	-5.813489
MCOLN2	0.1637193	11.664791	1.1085212	0.2964048	0.61527	-5.813823
ITIH3	0.0682454	6.9501808	1.1084666	0.2964272	0.61527	-5.813881
MCOLN1	0.1136998	7.7743659	1.1083714	0.2964661	0.61527	-5.813981
ZNF175	-0.087523	7.5533575	-1.108259	0.2965123	0.61527	-5.8141
ALKBH3	-0.130959	8.2566534	-1.108133	0.2965637	0.61527	-5.814232
DDX60L	0.0706994	6.783835	1.1081148	0.2965712	0.61527	-5.814251
BRD8	-0.108119	8.6609428	-1.107942	0.296642	0.61533	-5.814433
N4BP2	0.1096391	8.4450273	1.1074266	0.296853	0.61555	-5.814975
GLCE	-0.123122	7.8748657	-1.107389	0.2968683	0.61555	-5.815015
SGCG	0.0938955	6.9071118	1.1073806	0.2968719	0.61555	-5.815024
ATG16L1	-0.098561	8.9232339	-1.10716	0.2969622	0.61557	-5.815256
RPL23AP53	0.1182732	8.0283539	1.1071409	0.2969701	0.61557	-5.815276
GABPB1	-0.070021	8.1226568	-1.107041	0.297011	0.61557	-5.815381
MTFR1	0.1006863	9.8684464	1.1068296	0.2970977	0.61567	-5.815603
RPL23AP7	-0.090898	8.8667339	-1.106675	0.2971613	0.61569	-5.815766
ANKRD50	-0.081344	6.7681105	-1.106593	0.2971946	0.61569	-5.815852
MIEF1	0.102926	9.9910669	1.1062494	0.2973357	0.6159	-5.816213

SLC2A4RG	-0.095691	7.4550248	-1.105378	0.2976935	0.61655	-5.81713
TMOD3	0.0890009	7.2079272	1.1052471	0.2977471	0.61657	-5.817267
ZCWPW2	-0.09425	6.8777659	-1.10504	0.297832	0.61663	-5.817484
CUL5	-0.174863	9.5445772	-1.104847	0.2979112	0.61663	-5.817687
SAP30BP	0.070123	7.3925383	1.1047816	0.2979383	0.61663	-5.817756
LPCAT1	0.116145	8.6212145	1.1047694	0.2979433	0.61663	-5.817768
UBE2N	0.087808	10.650658	1.1043972	0.2980963	0.61682	-5.818159
ATG4B	0.100951	8.104978	1.1043335	0.2981224	0.61682	-5.818226
OSGIN2	0.1380391	9.0575521	1.1041755	0.2981874	0.61682	-5.818392
CA10	-0.082489	6.761403	-1.104109	0.2982149	0.61682	-5.818462
PPTC7	0.1148741	8.3246708	1.1040313	0.2982467	0.61682	-5.818543
TMEM120B	0.081774	7.2135019	1.1038885	0.2983054	0.61686	-5.818693
KRTAP10-3	0.0962372	7.1382059	1.1037034	0.2983815	0.61693	-5.818887
PCDHGA8	-0.091036	6.7768817	-1.103319	0.2985396	0.61713	-5.81929
HPF1	-0.111032	8.0997196	-1.103256	0.2985656	0.61713	-5.819357
GTF3C6	-0.095254	8.6171925	-1.103037	0.2986559	0.61718	-5.819587
AZIN1-AS1	0.0813286	7.461942	1.1029118	0.2987073	0.61718	-5.819718
GCH1	-0.074883	7.4682569	-1.102801	0.298753	0.61718	-5.819834
GUSBP4	0.0888128	7.9591617	1.1027911	0.298757	0.61718	-5.819845
BTN3A3	-0.102933	7.5685756	-1.102542	0.2988596	0.61728	-5.820106
CLASP2	-0.079315	8.290288	-1.102469	0.2988899	0.61728	-5.820183
ZNF483	0.1973286	9.1125113	1.1022035	0.2989991	0.61734	-5.820461
COL4A1	-0.076906	6.7906235	-1.102098	0.2990426	0.61734	-5.820571
THAP3	0.0875878	7.1470254	1.1019188	0.2991164	0.61734	-5.820759
KLLN	-0.068985	7.1036769	-1.10191	0.2991199	0.61734	-5.820768
PRKCD	0.0798258	8.7155109	1.1018799	0.2991324	0.61734	-5.8208
TTC3P1	-0.101094	6.7737367	-1.101755	0.2991841	0.61736	-5.820931
DHX37	0.0754806	8.8631407	1.1015182	0.2992815	0.61747	-5.821179
CDC123	-0.086049	10.469711	-1.101219	0.2994049	0.61764	-5.821492
TOX4	-0.099425	7.9456946	-1.10102	0.2994869	0.61764	-5.821701
CCDC68	0.0987652	6.9383603	1.1009296	0.2995243	0.61764	-5.821796
ATP6V1B2	0.1056705	10.229179	1.1009098	0.2995325	0.61764	-5.821816
DOPEY2	0.0820927	8.0330238	1.1007152	0.2996128	0.61765	-5.82202
TMEM184C	-0.090644	7.5136014	-1.100699	0.2996197	0.61765	-5.822038
SLC35G5	0.1058394	6.9960248	1.1005417	0.2996844	0.61769	-5.822202
MIR496	0.093559	6.847613	1.0997308	0.3000193	0.61817	-5.823051
LINC00926	-0.0779	7.9784126	-1.099705	0.30003	0.61817	-5.823078
MTCP1	-0.118765	10.263942	-1.099613	0.3000678	0.61817	-5.823174
CBWD1	-0.094485	7.2868254	-1.099572	0.3000848	0.61817	-5.823217
MIR99AHG	-0.083844	7.0561235	-1.099336	0.3001822	0.61828	-5.823463
CELF1	0.1085913	8.1044568	1.099147	0.3002605	0.61834	-5.823661
ZNF397	-0.074329	6.8738147	-1.099069	0.3002926	0.61834	-5.823743
SYNM	0.0800988	6.8399541	1.0989645	0.300336	0.61834	-5.823852

CCT5	-0.07486	7.7139463	-1.098292	0.3006141	0.61876	-5.824555
AOAH	-0.098559	7.0488473	-1.09827	0.3006232	0.61876	-5.824578
BCL10	0.0704708	7.3236432	1.0977634	0.3008329	0.6191	-5.825108
DOT1L	-0.116052	7.3369934	-1.097182	0.3010736	0.61943	-5.825716
ODF3B	-0.072378	6.8861048	-1.097177	0.3010758	0.61943	-5.825721
NPM2	-0.083481	6.7962758	-1.096984	0.3011557	0.6195	-5.825922
P2RY2	-0.067396	6.7282319	-1.096807	0.3012292	0.61955	-5.826108
LOC1001318	-0.129152	7.0846158	-1.096704	0.3012716	0.61955	-5.826215
CEP76	0.1081394	7.0577278	1.0965515	0.301335	0.61955	-5.826374
DMC1	0.1452613	9.1220149	1.0964722	0.3013679	0.61955	-5.826457
UBE2C	0.0761428	9.9850193	1.0964142	0.3013919	0.61955	-5.826518
TLE3	0.106926	7.0808035	1.0961354	0.3015075	0.61962	-5.826809
ARFIP1	0.0736924	7.5040088	1.0961271	0.301511	0.61962	-5.826817
CCDC177	0.0800564	6.866521	1.0958669	0.3016189	0.61972	-5.827089
SLAMF7	0.0843082	7.4271049	1.0958098	0.3016426	0.61972	-5.827149
CDK5RAP2	0.0796091	7.8832226	1.0952456	0.3018767	0.62005	-5.827737
PDF	-0.089269	7.040017	-1.095168	0.3019089	0.62005	-5.827818
SARM1	0.0915387	7.6904237	1.0951088	0.3019335	0.62005	-5.82788
ESAM	0.100363	7.1532563	1.0946195	0.3021367	0.62038	-5.82839
PEG10	0.1083586	7.9391832	1.094248	0.3022911	0.62058	-5.828778
FAM57A	0.1773009	8.6125716	1.0940892	0.3023571	0.62058	-5.828943
GPR20	0.0715811	6.9011444	1.0940822	0.30236	0.62058	-5.828951
CSNK2B	0.1083099	11.296149	1.0938079	0.302474	0.62073	-5.829237
SEMA3C	0.0755457	7.0091401	1.0936062	0.3025579	0.62074	-5.829447
MCF2L2	-0.090358	6.8973721	-1.093589	0.302565	0.62074	-5.829464
FAM46D	-0.071047	6.8086016	-1.093286	0.3026912	0.62091	-5.829781
HLA-DOB	-0.073494	9.3101424	-1.093075	0.3027789	0.62097	-5.83
UBXN2A	-0.077459	8.4822037	-1.092981	0.3028178	0.62097	-5.830098
ZNF470	-0.085097	6.8698864	-1.092854	0.3028706	0.62097	-5.83023
AHSP	-0.116376	7.0046732	-1.092717	0.3029279	0.62097	-5.830373
ZNF586	-0.085611	8.5893746	-1.092577	0.3029863	0.62097	-5.830519
STARD7-AS1	0.1178742	7.1610305	1.09255	0.3029974	0.62097	-5.830547
PACSIN3	-0.086508	6.7185386	-1.0925	0.3030181	0.62097	-5.830599
TUBA3E	-0.073535	7.0390291	-1.091947	0.3032487	0.62126	-5.831175
CHRNB1	-0.0813	7.9392508	-1.09189	0.3032722	0.62126	-5.831234
PHC3	0.0836762	7.100375	1.0918556	0.3032866	0.62126	-5.83127
ZZEF1	0.0816312	8.6598856	1.0915761	0.3034031	0.62135	-5.831561
PLD4	0.1005033	7.0515643	1.09155	0.3034139	0.62135	-5.831588
TMEM43	-0.103793	9.5074295	-1.091174	0.3035706	0.62139	-5.831979
GPA33	-0.072229	6.9565063	-1.09099	0.3036476	0.62139	-5.832171
AMD1	-0.095704	10.19485	-1.090915	0.3036788	0.62139	-5.832249
SIK2	0.0730768	7.020784	1.0908296	0.3037143	0.62139	-5.832337
HDAC4	-0.122102	7.2637015	-1.09077	0.3037393	0.62139	-5.8324

ELP6	-0.08078	8.7307211	-1.090733	0.3037545	0.62139	-5.832438
LY6H	-0.072349	6.9059127	-1.090656	0.3037867	0.62139	-5.832518
ARX	-0.113044	7.0343765	-1.090611	0.3038056	0.62139	-5.832565
ALDH1A1	0.0821047	6.9266401	1.0905757	0.3038202	0.62139	-5.832602
PHGDH	-0.134249	12.985485	-1.090349	0.3039148	0.62148	-5.832837
IL1B	-0.075693	6.782794	-1.090274	0.3039459	0.62148	-5.832915
PCDH1	0.0787315	6.8737842	1.0900874	0.304024	0.62148	-5.833109
SIMC1	0.0962559	7.5862484	1.0899946	0.3040627	0.62148	-5.833206
ABCA6	0.0795242	7.4276157	1.08996	0.3040771	0.62148	-5.833242
STK24	0.0700845	9.5629923	1.0896634	0.304201	0.62165	-5.83355
THEM4	-0.089834	7.1665142	-1.089491	0.3042729	0.62168	-5.833729
MIR130A	0.1376781	7.6708114	1.0894197	0.3043028	0.62168	-5.833803
RNASE10	-0.093147	7.1554758	-1.088968	0.3044915	0.62198	-5.834272
MAP3K6	-0.083078	6.8558911	-1.088649	0.3046249	0.62217	-5.834604
SEMA3G	0.0688831	6.7846977	1.0884425	0.3047112	0.62226	-5.834818
PCDHB19P	-0.115075	7.3344037	-1.087985	0.3049025	0.62256	-5.835293
ZFP82	0.0957916	7.3367225	1.0871137	0.3052673	0.62322	-5.836197
FEM1B	0.095986	7.1912453	1.0867417	0.3054231	0.62339	-5.836583
FANCC	-0.135481	7.2037444	-1.086683	0.3054479	0.62339	-5.836645
FRG1BP	0.1548507	8.4139699	1.0865586	0.3054998	0.62339	-5.836773
ELF3	0.0822921	7.4171705	1.0864435	0.305548	0.62339	-5.836892
STT3B	0.0896664	8.9070491	1.0863959	0.305568	0.62339	-5.836942
CHKB	-0.071221	7.7993571	-1.086294	0.3056105	0.62339	-5.837047
CYCS	-0.094703	8.9449862	-1.086013	0.3057286	0.62355	-5.837339
TMSB15A	0.0767761	6.6820065	1.0857047	0.3058577	0.62371	-5.837658
PRKCQ	0.1112892	6.8842463	1.0856228	0.3058921	0.62371	-5.837743
C1orf122	0.1343335	8.2019296	1.0854512	0.3059641	0.62377	-5.837921
ISYNA1	-0.103563	7.056451	-1.085302	0.3060266	0.62381	-5.838075
DNAH12	-0.079238	6.9217497	-1.085036	0.3061383	0.62395	-5.838351
ALDH6A1	0.0909629	8.0084602	1.0849297	0.3061829	0.62395	-5.838461
KRTAP11-1	0.0718618	6.8762212	1.0844846	0.3063698	0.62414	-5.838922
HSPA9	0.1040619	12.268972	1.0844743	0.3063741	0.62414	-5.838933
PCYT1A	-0.074626	6.8222678	-1.08432	0.3064388	0.62414	-5.839093
NDUFS1	0.1865541	7.7818214	1.0843062	0.3064447	0.62414	-5.839107
ZNF7	-0.108763	8.2206918	-1.083974	0.3065844	0.62425	-5.839451
YWHAQ	0.1257625	13.036517	1.0839732	0.3065846	0.62425	-5.839452
VCP	-0.138009	10.480248	-1.083534	0.306769	0.62449	-5.839906
RGS14	0.0875247	7.1304725	1.0834864	0.3067892	0.62449	-5.839955
RTCA	0.0907496	9.2179009	1.0830707	0.306964	0.62471	-5.840386
ELAVL3	0.0709641	6.98112	1.0830236	0.3069838	0.62471	-5.840434
SRD5A1	0.0998241	7.8124412	1.0827381	0.3071039	0.62485	-5.84073
SUSD2	0.0824938	7.0498682	1.0826521	0.3071401	0.62485	-5.840819
VWA3B	0.0796457	6.8730829	1.0824926	0.3072072	0.62486	-5.840984

HSP90AB4P	-0.082958	7.0582602	-1.082411	0.3072415	0.62486	-5.841068
SPRR2E	-0.085295	7.034694	-1.082343	0.3072701	0.62486	-5.841138
KLC4	-0.080759	7.0888585	-1.082178	0.3073398	0.62491	-5.841309
MRPS5	0.1090147	10.041073	1.0820463	0.3073951	0.62494	-5.841445
PPM1H	-0.07022	6.8128194	-1.081656	0.3075596	0.62511	-5.841849
EGFLAM	0.0745169	6.8507588	1.081644	0.3075645	0.62511	-5.841861
HERC3	-0.070242	7.342535	-1.081344	0.307691	0.62528	-5.842171
CPXM2	-0.107985	6.9283343	-1.081047	0.3078159	0.62544	-5.842477
MSLNL	0.0739045	6.8726507	1.0809522	0.307856	0.62544	-5.842576
BPESC1	0.0724614	6.8615823	1.0805616	0.3080206	0.6256	-5.842979
SUMF2	0.094929	9.984312	1.0805586	0.3080219	0.6256	-5.842982
SERTAD2	0.1290585	10.28063	1.080402	0.308088	0.62565	-5.843144
LCT	0.0763964	6.8540709	1.0801292	0.308203	0.62577	-5.843425
PDXDC2P-NF	-0.071588	6.8719891	-1.080024	0.3082473	0.62577	-5.843534
DNAJA4	0.0888464	6.799533	1.0799349	0.308285	0.62577	-5.843626
OR2A42	0.0866319	7.2171188	1.0798588	0.3083171	0.62577	-5.843705
TBC1D17	0.1251921	7.1068499	1.0795261	0.3084575	0.6259	-5.844048
ILF2	-0.104642	12.060557	-1.079505	0.3084663	0.6259	-5.844069
RAB11FIP5	0.1061446	6.8335761	1.0789773	0.3086893	0.62626	-5.844614
METTL14	0.0836421	7.6283039	1.0786802	0.3088148	0.62643	-5.84492
SMYD3	-0.096304	9.157967	-1.078323	0.3089658	0.62659	-5.845289
LOC1000085	0.3283967	12.681838	1.0782886	0.3089803	0.62659	-5.845324
TIFAB	-0.0783	6.8075867	-1.077917	0.3091373	0.62672	-5.845707
NINL	-0.094746	6.7649097	-1.0778	0.3091868	0.62672	-5.845828
INTS13	0.1369341	8.6581053	1.0777445	0.3092104	0.62672	-5.845885
GTF2IRD1	-0.075639	6.8381129	-1.077726	0.3092183	0.62672	-5.845904
CSRNP2	-0.075182	7.6109027	-1.077635	0.3092568	0.62672	-5.845998
NAA16	-0.068573	7.6216695	-1.077148	0.3094627	0.62701	-5.8465
HHLA3	0.0717001	7.0480556	1.0767572	0.3096282	0.62701	-5.846902
DCANP1	0.0788724	6.8887484	1.0767253	0.3096417	0.62701	-5.846935
ITPRIPL2	-0.100941	7.0954603	-1.076718	0.3096446	0.62701	-5.846942
PNMA2	-0.067381	6.8033025	-1.076658	0.3096702	0.62701	-5.847004
BBS9	-0.074351	7.0756445	-1.07665	0.3096734	0.62701	-5.847012
KIR2DS5	0.0756579	6.8171486	1.0764253	0.3097687	0.62701	-5.847244
TNFRSF10D	0.0748735	6.8707241	1.0763893	0.309784	0.62701	-5.847281
TNRC6B	0.0954486	7.5797909	1.0763774	0.309789	0.62701	-5.847293
HELB	-0.073775	6.8527255	-1.076037	0.3099334	0.62722	-5.847644
MIR641	-0.104604	6.9154025	-1.075924	0.3099811	0.62723	-5.84776
MEX3B	-0.074995	7.0350176	-1.075667	0.3100902	0.62736	-5.848025
ADD3	-0.094949	8.9202457	-1.075531	0.3101476	0.62739	-5.848164
AZI2	-0.107812	7.5567965	-1.074731	0.3104871	0.62798	-5.848988
MAB21L1	-0.072544	6.9012225	-1.074346	0.3106502	0.62798	-5.849383
SKA3	-0.096304	8.3409228	-1.074333	0.3106561	0.62798	-5.849397

ZNF385A	-0.068597	6.8669249	-1.074289	0.3106747	0.62798	-5.849442
SUCLG2	-0.142465	9.2627029	-1.074273	0.3106814	0.62798	-5.849458
SDCCAG8	-0.115442	7.1254654	-1.074224	0.3107024	0.62798	-5.849509
GPR15	-0.105079	6.9200439	-1.074129	0.3107424	0.62798	-5.849606
SGPP1	-0.147659	7.2907123	-1.07403	0.3107844	0.62798	-5.849708
PSORS1C3	-0.114043	7.2653373	-1.073806	0.3108796	0.62807	-5.849938
CBX7	0.1202126	8.2902498	1.0737204	0.310916	0.62807	-5.850026
DDX10	0.1386694	9.909688	1.073352	0.3110725	0.6283	-5.850405
SYPL1	0.0857025	10.083997	1.0732285	0.311125	0.62832	-5.850532
MYOM2	-0.111119	7.7339409	-1.073058	0.3111976	0.62838	-5.850707
LINC01311	-0.076782	6.9672491	-1.072792	0.3113107	0.62852	-5.85098
CHSY3	-0.074378	6.8915543	-1.072684	0.3113565	0.62853	-5.851091
MYOG	-0.147037	6.9945716	-1.072466	0.3114491	0.62861	-5.851315
CPT1A	-0.069758	6.8644988	-1.072388	0.3114825	0.62861	-5.851395
CNGA3	-0.070206	6.9427316	-1.072282	0.3115275	0.62861	-5.851504
KYNU	0.096442	8.6007927	1.0721268	0.3115935	0.62861	-5.851663
GCHFR	0.0831469	9.4479644	1.072013	0.3116419	0.62861	-5.85178
SLC22A18	0.0664203	6.8921374	1.0719621	0.3116636	0.62861	-5.851832
EXO5	0.0876551	7.6958877	1.071828	0.3117207	0.62861	-5.85197
ARMCX4	0.0693064	6.8544924	1.0717703	0.3117452	0.62861	-5.852029
OTUD6B-AS	-0.101347	7.2164009	-1.071677	0.3117851	0.62861	-5.852125
NAXD	-0.083957	8.2146672	-1.071208	0.3119845	0.62892	-5.852606
CENPE	-0.096336	7.9072746	-1.070929	0.3121034	0.62908	-5.852892
KLHL17	-0.091727	7.1020701	-1.070521	0.3122772	0.62934	-5.85331
PI4KAP1	-0.080956	7.661357	-1.070284	0.3123784	0.62946	-5.853553
LYZL1	-0.079447	6.8548336	-1.070068	0.3124703	0.62956	-5.853774
XIAP	-0.08873	7.0238403	-1.069829	0.3125725	0.62968	-5.85402
AMPD3	-0.083841	6.8835593	-1.069183	0.3128481	0.63008	-5.854682
SALL4	-0.072466	6.7809964	-1.069115	0.3128772	0.63008	-5.854752
ARMCX1	0.0705645	6.7540989	1.0690412	0.3129085	0.63008	-5.854827
ANXA8	0.0877784	6.7518224	1.0688216	0.3130023	0.63008	-5.855052
RNF24	0.079372	7.4279222	1.0687725	0.3130232	0.63008	-5.855102
DDI1	0.067133	6.8950861	1.0687534	0.3130314	0.63008	-5.855122
LGR4	-0.069308	6.7543658	-1.068591	0.3131006	0.63013	-5.855287
LOC644215	0.0773148	6.8118048	1.0684767	0.3131495	0.63014	-5.855405
SREK1IP1	-0.065671	6.8919739	-1.068068	0.313324	0.63041	-5.855823
TULP3	0.1256244	7.5230223	1.0677968	0.31344	0.63055	-5.856101
SLC6A10P	0.0695331	6.7947235	1.0674852	0.3135733	0.63062	-5.85642
GTF2IRD2P1	-0.076785	6.909609	-1.067412	0.3136047	0.63062	-5.856495
AKIRIN1	0.1303227	7.9085704	1.0672838	0.3136594	0.63062	-5.856626
CXCL17	0.1040087	6.9204668	1.0670626	0.313754	0.63062	-5.856852
ACVR2B	0.0717994	6.7366247	1.0670463	0.3137609	0.63062	-5.856868
KIF15	0.088157	8.0300185	1.0670103	0.3137764	0.63062	-5.856905

LINC01549	0.0892286	7.0400348	1.0669506	0.3138019	0.63062	-5.856966
GLT8D2	0.0668201	6.8327172	1.0667847	0.3138729	0.63062	-5.857136
SH3GLB1	0.0770285	9.863099	1.0667621	0.3138825	0.63062	-5.857159
RNF112	-0.093304	7.0941628	-1.066651	0.3139302	0.63062	-5.857273
SPO11	-0.071334	6.9969777	-1.066607	0.3139491	0.63062	-5.857318
FAM212A	-0.130811	8.2372707	-1.066448	0.3140168	0.63067	-5.85748
OFD1	-0.084824	7.7642059	-1.066197	0.3141246	0.6308	-5.857737
RABL2B	-0.088116	7.7382994	-1.066031	0.3141956	0.63085	-5.857907
MIR221	-0.068577	6.8353355	-1.065472	0.3144349	0.63125	-5.858478
HMGN1	-0.111758	12.541881	-1.065339	0.3144921	0.63128	-5.858614
NOP14-AS1	0.0831456	6.9492101	1.064941	0.3146625	0.63153	-5.85902
RGS21	0.066346	6.8799872	1.064675	0.3147766	0.63159	-5.859292
PRR36	0.0838491	6.8879896	1.0646718	0.314778	0.63159	-5.859295
DUSP15	0.0742919	7.2383603	1.0641585	0.3149981	0.63192	-5.859819
IRF9	0.1220639	9.0419538	1.0640905	0.3150273	0.63192	-5.859888
LPXN	-0.094542	12.310382	-1.063966	0.3150806	0.63194	-5.860015
EIF1B	-0.078669	10.451994	-1.062888	0.3155435	0.63278	-5.861115
PLIN2	0.0750588	8.8832154	1.0625906	0.3156714	0.63295	-5.861418
TSNAX	-0.08467	8.2391614	-1.062356	0.3157724	0.63306	-5.861658
TAX1BP3	-0.071065	8.0380874	-1.061968	0.3159389	0.63327	-5.862052
PPP2R5C	-0.084637	8.6415157	-1.06188	0.3159768	0.63327	-5.862142
KCNJ12	0.0701405	6.8236348	1.0616471	0.3160771	0.63327	-5.86238
PROK2	-0.138387	7.0381824	-1.061534	0.3161259	0.63327	-5.862495
TVP23C	-0.130025	7.9058787	-1.061518	0.3161328	0.63327	-5.862511
CUL1	-0.084093	9.7703996	-1.061516	0.3161337	0.63327	-5.862513
DSCC1	-0.104582	9.1089955	-1.061336	0.3162111	0.63333	-5.862697
AHDC1	0.0904667	6.9943348	1.0611823	0.3162771	0.63335	-5.862853
FAM218A	0.0749134	6.8368007	1.0611071	0.3163095	0.63335	-5.86293
TERF1	0.0879872	7.3203288	1.060966	0.3163702	0.63335	-5.863073
BMP4	-0.085614	7.0142584	-1.060914	0.3163925	0.63335	-5.863126
SF3A3	-0.122078	11.606269	-1.060718	0.3164768	0.63343	-5.863325
UPF3A	-0.118789	8.9589065	-1.060593	0.316531	0.63345	-5.863453
FOXD4L1	-0.069178	7.0538293	-1.059894	0.3168319	0.63397	-5.864164
CYP2U1	-0.083232	7.1936902	-1.059536	0.3169864	0.63419	-5.864529
VCX3A	0.0817193	6.8719954	1.0592753	0.3170987	0.63422	-5.864794
HOMER2	0.0661238	6.8760191	1.0592367	0.3171154	0.63422	-5.864833
CSNK1D	0.0762986	8.5031765	1.0592043	0.3171294	0.63422	-5.864866
JUN	0.1062092	7.3363322	1.0590476	0.3171969	0.63426	-5.865025
TEX11	-0.084898	6.9107117	-1.058704	0.3173454	0.63447	-5.865375
FLT3LG	-0.086063	7.0670569	-1.058321	0.3175105	0.6346	-5.865764
CPSF3	0.0994209	11.108256	1.0582895	0.3175241	0.6346	-5.865796
ASH2L	0.087958	9.2364317	1.05825	0.3175411	0.6346	-5.865836
DCXR	0.0926415	10.261197	1.0581171	0.3175985	0.63463	-5.865971

ZNF808	0.0834709	6.8529807	1.0579424	0.317674	0.63468	-5.866149
SYBU	-0.085572	8.6417864	-1.057856	0.3177113	0.63468	-5.866236
CIZ1	-0.096081	6.9748745	-1.057403	0.3179069	0.63496	-5.866696
GCNT2	-0.0748	7.8959614	-1.057339	0.3179347	0.63496	-5.866762
RNASEH2A	0.0992207	9.2729683	1.0572288	0.3179823	0.63496	-5.866874
MRPL55	0.0770482	8.3288205	1.0571326	0.3180238	0.63496	-5.866971
TLR7	0.0870214	7.0224503	1.0567261	0.3181996	0.63522	-5.867384
RWDD1	-0.085108	9.7940498	-1.056255	0.3184035	0.63548	-5.867862
MBD6	0.1170203	8.5474197	1.0562328	0.318413	0.63548	-5.867885
AKR1C4	0.1055517	6.9728268	1.0561227	0.3184606	0.63548	-5.867996
SYNGR2	0.1009727	7.1279691	1.0559448	0.3185376	0.63553	-5.868177
SLC9B1	0.0953108	7.0925905	1.0558657	0.3185718	0.63553	-5.868257
MAPKAPK3	0.1014899	10.959364	1.0553484	0.3187957	0.63573	-5.868782
TIGD2	-0.077584	7.2473895	-1.055314	0.3188107	0.63573	-5.868817
ATRIP	0.0718452	8.3840543	1.0552565	0.3188356	0.63573	-5.868875
LYSMD4	-0.066271	7.8315532	-1.055234	0.3188453	0.63573	-5.868898
UBE2MP1	0.0817953	6.9696703	1.0548773	0.3189998	0.63595	-5.869259
SLC11A2	-0.085198	8.5250248	-1.054604	0.3191183	0.63603	-5.869537
TLK1	-0.12101	8.350524	-1.054588	0.3191252	0.63603	-5.869553
ABCB7	-0.136637	8.636276	-1.054312	0.3192446	0.63613	-5.869832
SLC38A5	0.0956982	8.625274	1.054274	0.3192613	0.63613	-5.869871
KDM5C	0.0916396	6.8960688	1.0541514	0.3193144	0.63614	-5.869995
ADGRG6	-0.068844	6.8351154	-1.053921	0.3194144	0.63626	-5.870229
ENTPD3	0.074322	7.2018213	1.0536212	0.3195444	0.63635	-5.870532
FNIP1	-0.099232	8.096514	-1.053569	0.3195669	0.63635	-5.870585
TMEM164	0.0711412	6.9635623	1.0535076	0.3195937	0.63635	-5.870647
LDB3	-0.09773	6.9133152	-1.053373	0.3196521	0.63638	-5.870784
ABHD6	-0.104509	8.8023866	-1.052916	0.3198504	0.63661	-5.871246
PCBP4	0.0649511	7.1190726	1.0529015	0.3198567	0.63661	-5.871261
SDF4	0.1716803	9.5405989	1.0528118	0.3198956	0.63661	-5.871352
KCNIP3	0.0944765	6.782579	1.0525056	0.3200286	0.63674	-5.871661
TNK1	-0.081601	6.8588959	-1.052456	0.3200501	0.63674	-5.871711
ADAMTS2	-0.073127	6.7698348	-1.052347	0.3200976	0.63675	-5.871822
CIRBP-AS1	-0.156903	6.9771949	-1.051871	0.3203044	0.63707	-5.872304
PKD1	0.0852372	6.9860963	1.0517678	0.3203492	0.63708	-5.872408
OSTF1	0.0857951	9.7720914	1.0515022	0.3204647	0.63722	-5.872676
KIAA0100	0.0849137	8.0116188	1.0510608	0.3206566	0.63751	-5.873123
ITGA9	0.1126963	7.0489472	1.0508996	0.3207267	0.63752	-5.873286
CDC34	0.1145837	8.7475387	1.0508467	0.3207498	0.63752	-5.873339
PARTICL	-0.076849	7.0938735	-1.05074	0.3207962	0.63753	-5.873447
MAGI2	0.0871412	6.7258078	1.0499425	0.3211433	0.63813	-5.874253
FCGR1CP	0.0681384	6.8438939	1.0498343	0.3211904	0.63814	-5.874362
RCBTB1	-0.085646	7.0714953	-1.049544	0.3213167	0.63826	-5.874655

APEX1	0.1107988	12.185326	1.0494622	0.3213525	0.63826	-5.874738
ZNF570	-0.069381	6.8712752	-1.049337	0.3214072	0.63826	-5.874864
VPS16	-0.087881	8.226052	-1.049297	0.3214244	0.63826	-5.874904
STARD4	-0.0733	6.888502	-1.048936	0.3215818	0.63841	-5.875269
MIR30B	0.0848824	6.8458194	1.0488623	0.321614	0.63841	-5.875343
TNFRSF1B	-0.079057	8.0870036	-1.048778	0.3216505	0.63841	-5.875428
RALB	-0.077712	7.6332596	-1.048702	0.3216838	0.63841	-5.875505
KRT8	0.0773599	6.8094141	1.0486171	0.3217209	0.63841	-5.875591
QRICH1	-0.071945	8.6819394	-1.048154	0.321923	0.63868	-5.876058
LILRB5	-0.076419	7.0452521	-1.048106	0.3219438	0.63868	-5.876106
TRAPPC12	0.1140361	8.9216861	1.047494	0.322211	0.6391	-5.876724
TUBB7P	0.1086254	8.501923	1.0473222	0.322286	0.6391	-5.876897
ADSL	0.0642506	12.848536	1.0472497	0.3223176	0.6391	-5.87697
CYS1	0.0652815	6.7622045	1.0472157	0.3223325	0.6391	-5.877004
GOLGA1	-0.080902	7.3755044	-1.046979	0.3224358	0.6392	-5.877243
CSAD	-0.088668	7.3307601	-1.046902	0.3224695	0.6392	-5.87732
CDPF1	-0.075124	7.4353054	-1.046661	0.322575	0.63932	-5.877564
PP7080	-0.091068	8.2503174	-1.046254	0.3227528	0.63959	-5.877973
ACKR3	0.0785498	10.003886	1.0461193	0.3228116	0.63962	-5.878109
OR2AG1	0.0762287	6.8997649	1.046018	0.3228559	0.63962	-5.878211
EIF2AK3	-0.088271	7.9102413	-1.045203	0.3232126	0.64024	-5.879032
UHRF1BP1	0.0909964	7.9973065	1.0449107	0.3233403	0.64041	-5.879326
PHF3	-0.135023	8.4973061	-1.044588	0.3234815	0.6406	-5.87965
TADA2A	-0.095573	7.265838	-1.044461	0.3235373	0.64062	-5.879778
RITA1	-0.098039	10.453988	-1.044094	0.323698	0.64076	-5.880147
AQR	0.074177	8.0443739	1.0439567	0.3237582	0.64076	-5.880285
EMP2	0.0843598	6.9056353	1.043901	0.3237826	0.64076	-5.880341
LOC729879	0.0705518	6.8495725	1.0438509	0.3238045	0.64076	-5.880392
TCEAL1	-0.065781	6.9024292	-1.04372	0.3238619	0.64076	-5.880523
UTP14A	0.0826551	9.7005265	1.0436971	0.3238719	0.64076	-5.880546
TADA2B	0.0754032	7.6867808	1.0435345	0.3239432	0.64082	-5.88071
KRT75	-0.074817	6.9872	-1.042857	0.3242405	0.64118	-5.881391
DSG1	-0.072769	6.8574434	-1.042776	0.3242759	0.64118	-5.881472
DUSP23	0.0790389	6.9383753	1.0427305	0.3242958	0.64118	-5.881518
SNAI3	-0.086055	6.8279767	-1.042655	0.3243291	0.64118	-5.881594
ARRDC1	0.080493	6.8621869	1.0424974	0.3243981	0.64118	-5.881752
CCDC167	-0.08383	10.561327	-1.04246	0.3244147	0.64118	-5.88179
SH3PXD2A	-0.084921	8.4420127	-1.042417	0.3244335	0.64118	-5.881833
SCFD2	0.0880904	7.5230523	1.0420867	0.3245784	0.64131	-5.882164
JHDM1D-AS	-0.070695	6.9377046	-1.041976	0.3246271	0.64131	-5.882276
TRMT5	0.0778429	9.9362395	1.0418698	0.3246736	0.64131	-5.882382
HIST1H3E	-0.07906	7.2101274	-1.041776	0.3247149	0.64131	-5.882476
ZNF319	0.1055649	8.6583477	1.0417608	0.3247215	0.64131	-5.882492

MIOS	0.1031489	9.0579203	1.0416604	0.3247656	0.64131	-5.882592
FAM210B	0.0659733	6.7491441	1.0413309	0.3249103	0.64151	-5.882923
LOC1005075	-0.073985	6.8483048	-1.04119	0.3249724	0.64155	-5.883065
ANKDD1A	0.0739299	7.1323464	1.0408469	0.3251231	0.64176	-5.883409
ZNF34	-0.080213	7.3135249	-1.040735	0.3251723	0.64177	-5.883521
HIST1H2AB	0.0930762	7.0230747	1.0405786	0.325241	0.64182	-5.883678
CTBS	0.0707925	7.8184067	1.040118	0.3254436	0.64213	-5.88414
APOBR	-0.068229	6.8156176	-1.040024	0.3254851	0.64213	-5.884234
LOC81691	-0.084345	7.5117163	-1.039814	0.3255775	0.64219	-5.884445
NEK8	-0.083224	8.026791	-1.039695	0.3256298	0.64219	-5.884564
PACRG-AS1	-0.070435	6.9146767	-1.039648	0.3256506	0.64219	-5.884611
BRD4	0.0755679	7.0270382	1.0395036	0.325714	0.64223	-5.884756
C6orf136	0.089059	9.3429194	1.0391869	0.3258535	0.64232	-5.885073
NAP1L5	0.067285	6.8145331	1.0391161	0.3258846	0.64232	-5.885144
ARL6IP1	-0.078601	9.4071062	-1.039045	0.3259158	0.64232	-5.885215
ZNF266	-0.075172	7.4510552	-1.039004	0.3259339	0.64232	-5.885256
PMS2P4	-0.09305	10.233097	-1.03884	0.3260064	0.64237	-5.885421
SNX27	0.1391868	10.091048	1.0379114	0.3264155	0.64309	-5.88635
RABAC1	0.1275533	10.231566	1.0374638	0.3266129	0.64317	-5.886798
BRD9	-0.096473	10.273348	-1.037409	0.3266372	0.64317	-5.886854
PARL	0.0827878	10.414001	1.0373891	0.3266459	0.64317	-5.886873
RPL8	0.1333136	11.881554	1.0373622	0.3266577	0.64317	-5.8869
HSP90AB2P	-0.063578	7.027753	-1.037322	0.3266753	0.64317	-5.88694
CBARP	0.0819812	7.1513224	1.0371085	0.3267697	0.64319	-5.887154
GART	0.071105	9.316778	1.0370989	0.3267739	0.64319	-5.887164
COQ4	0.096282	7.1644641	1.0367178	0.3269421	0.64338	-5.887545
SLC12A2	0.1062122	7.7537889	1.0366815	0.3269581	0.64338	-5.887581
CD7	0.0687967	6.8657314	1.0357542	0.3273677	0.64401	-5.888508
ATP6AP1	-0.150551	10.823761	-1.035735	0.3273762	0.64401	-5.888527
ZNF626	-0.066351	7.3734967	-1.035656	0.3274111	0.64401	-5.888606
CHRNA2	0.0846275	7.0283448	1.0353943	0.3275268	0.64415	-5.888868
TRIM37	-0.06538	7.6240986	-1.035268	0.3275829	0.64418	-5.888994
NTSR1	-0.069586	6.7968015	-1.03473	0.3278204	0.64446	-5.889531
TPRA1	0.1063179	8.1823655	1.0346884	0.327839	0.64446	-5.889573
SLC5A3	0.1066951	7.3324535	1.0346407	0.3278601	0.64446	-5.889621
YTHDF2	0.098283	10.384504	1.034456	0.3279418	0.64453	-5.889805
BAIAP2L2	-0.076282	6.9810282	-1.034073	0.3281115	0.64478	-5.890188
PCLAF	0.0913081	10.798892	1.0336219	0.3283111	0.64509	-5.890638
ELP3	-0.070235	9.1881467	-1.033521	0.3283556	0.64509	-5.890738
SPTSSA	-0.089062	8.7242644	-1.033299	0.3284539	0.64509	-5.890959
PDZD7	-0.074165	6.7012212	-1.033274	0.3284652	0.64509	-5.890985
CES1P1	-0.071062	6.7958922	-1.033157	0.3285169	0.64509	-5.891101
FAM13A-AS	-0.074099	6.9375226	-1.033119	0.3285341	0.64509	-5.89114

PCDHGA5	0.0788532	6.8322544	1.032722	0.3287098	0.64535	-5.891535
MEF2A	-0.078117	7.4206145	-1.032098	0.3289867	0.6458	-5.892158
KCNQ2	-0.069132	6.9521804	-1.031998	0.3290309	0.6458	-5.892257
POLD3	-0.064252	7.3463502	-1.031701	0.3291628	0.64594	-5.892553
FKBP1B	-0.068104	6.897712	-1.031551	0.3292291	0.64594	-5.892702
HMG20B	0.1413118	10.0094	1.0314978	0.3292529	0.64594	-5.892755
EIF3E	-0.131896	13.940361	-1.031439	0.329279	0.64594	-5.892814
NLRP8	0.1742924	10.166855	1.0312046	0.329383	0.64606	-5.893047
ARL3	0.0959918	7.5800611	1.0309729	0.3294859	0.64608	-5.893278
WDR89	-0.0686	7.1958915	-1.030927	0.3295063	0.64608	-5.893324
CARD16	-0.078007	6.9093491	-1.03089	0.3295227	0.64608	-5.893361
CDK19	0.0992626	8.5828991	1.0307074	0.3296038	0.64609	-5.893542
ABCF3	0.1062607	7.3427825	1.0306706	0.3296202	0.64609	-5.893579
PTPRC	0.0823424	6.9322674	1.0303916	0.3297441	0.64625	-5.893857
DIAPH3	0.0670753	7.4135755	1.0299012	0.3299621	0.64642	-5.894345
MIR331	-0.100766	6.8884495	-1.029899	0.329963	0.64642	-5.894347
HNRNPK	0.0824186	9.8896505	1.0298923	0.3299661	0.64642	-5.894354
NPAS3	0.0774482	6.9480163	1.0295162	0.3301333	0.64666	-5.894728
SAMD8	-0.079234	7.0040991	-1.029341	0.3302111	0.64673	-5.894902
NEK1	-0.105939	7.5118614	-1.029093	0.3303217	0.64686	-5.895149
FGF1	-0.080539	6.9401505	-1.028814	0.3304459	0.64693	-5.895427
PIK3CA	-0.093567	7.5579898	-1.028789	0.3304567	0.64693	-5.895451
POLR2M	-0.070309	7.1928632	-1.028713	0.3304908	0.64693	-5.895527
POU3F1	0.0788089	6.9950032	1.0283562	0.3306495	0.64715	-5.895881
DEFB103A	-0.066013	6.8367732	-1.028016	0.3308012	0.64736	-5.89622
JPT2	0.0675321	8.088338	1.0279095	0.3308485	0.64737	-5.896325
IMPG2	-0.073366	6.8736176	-1.02767	0.3309554	0.64741	-5.896563
ARL15	-0.08306	7.3997837	-1.027524	0.3310204	0.64741	-5.896708
ESM1	0.0887135	6.9186198	1.0274909	0.331035	0.64741	-5.896741
PLEKHG7	0.0842845	6.9445316	1.0274652	0.3310465	0.64741	-5.896766
DUXAP3	0.1063596	8.9163479	1.0272276	0.3311524	0.64753	-5.897002
RNASEH2C	-0.073165	7.4234541	-1.026996	0.3312556	0.64765	-5.897232
PLXNC1	-0.083287	6.8683859	-1.026801	0.3313426	0.64773	-5.897426
TIFA	-0.11326	8.5750616	-1.026265	0.3315817	0.64811	-5.897958
FYB	0.07221	6.7736776	1.0261212	0.3316459	0.64815	-5.8981
PTPN23	0.0777731	7.1184746	1.0259317	0.3317304	0.64823	-5.898288
SNORA11B	-0.074425	7.1230037	-1.02558	0.3318875	0.64823	-5.898637
PRLR	-0.07993	6.9308265	-1.025567	0.3318931	0.64823	-5.89865
SMC1B	-0.089214	6.8157371	-1.025541	0.3319047	0.64823	-5.898676
SF3A1	0.0925314	7.736741	1.0255306	0.3319095	0.64823	-5.898686
DENND6B	-0.134561	9.1454863	-1.025404	0.3319661	0.64825	-5.898812
ITGA11	-0.091297	7.1203507	-1.025115	0.3320951	0.64842	-5.899098
CELF2-AS2	0.0790508	6.9011359	1.0249697	0.3321601	0.64846	-5.899242

ZNF681	-0.083882	7.2534021	-1.024748	0.3322589	0.64856	-5.899462
RFLNA	0.1055308	7.0349852	1.0240677	0.3325633	0.64907	-5.900136
TPD52L1	-0.074194	6.8686608	-1.023717	0.3327202	0.64929	-5.900484
BAG4	-0.0742	7.296328	-1.02309	0.3330009	0.64965	-5.901105
IFT140	0.0734654	6.9011489	1.0230516	0.333018	0.64965	-5.901142
RRP9	0.167066	7.8114667	1.023011	0.3330361	0.64965	-5.901182
BRF2	0.0962036	7.692651	1.0227742	0.3331422	0.64973	-5.901417
DFNA5	-0.103347	7.8380786	-1.022647	0.333199	0.64973	-5.901542
CAPS	-0.074242	7.0399867	-1.022619	0.3332115	0.64973	-5.90157
AURKC	0.0795489	6.8611745	1.0225003	0.3332649	0.64975	-5.901688
RPL10	-0.080492	6.8803213	-1.022223	0.3333891	0.6499	-5.901962
GEN1	-0.080084	7.1627422	-1.021933	0.3335193	0.65007	-5.902249
KCNK17	0.077229	6.9378243	1.0216375	0.3336515	0.65024	-5.902541
FAM174B	0.0641952	6.7173022	1.0212929	0.3338061	0.65032	-5.902882
OTOGL	0.0950686	7.1338719	1.0209423	0.3339633	0.65032	-5.903228
C11orf45	-0.070437	6.6750708	-1.02093	0.3339688	0.65032	-5.90324
SAYSD1	-0.084469	7.8274341	-1.020825	0.3340161	0.65032	-5.903345
DYRK1A	0.0918305	8.8338444	1.0207714	0.33404	0.65032	-5.903397
JRKL	0.0751048	6.9950431	1.020739	0.3340545	0.65032	-5.903429
OR2Z1	0.074425	6.9189773	1.0207099	0.3340676	0.65032	-5.903458
CDKL1	0.0752284	6.9480965	1.0206729	0.3340842	0.65032	-5.903495
NUTM2A	0.0728318	6.9633067	1.0205798	0.334126	0.65032	-5.903587
MEIOB	-0.064449	6.8161749	-1.02052	0.3341526	0.65032	-5.903645
SLC2A11	0.0794275	7.1686151	1.0204289	0.3341937	0.65032	-5.903736
C5orf49	-0.074678	6.9015265	-1.020274	0.3342631	0.65032	-5.903888
SSC4D	-0.070339	6.9243292	-1.020257	0.3342708	0.65032	-5.903905
KDM1B	-0.087869	6.9638985	-1.020125	0.3343301	0.65035	-5.904036
PGA3	-0.068701	6.9177574	-1.019838	0.3344589	0.65036	-5.904319
NPTXR	-0.073833	6.7569148	-1.019836	0.3344599	0.65036	-5.904321
GPR183	0.1018647	8.478607	1.0198075	0.3344728	0.65036	-5.904349
SNAP91	-0.071575	6.7914309	-1.019537	0.3345941	0.65051	-5.904616
CCDC150	-0.079128	6.939584	-1.019318	0.3346928	0.65055	-5.904833
KANK4	-0.097018	6.9329662	-1.019146	0.3347698	0.65055	-5.905002
RAB4A	-0.064929	6.7164537	-1.019106	0.3347881	0.65055	-5.905042
DPYSL3	0.0685991	6.6933868	1.0190936	0.3347936	0.65055	-5.905054
CDKN1B	-0.073337	8.3055677	-1.018877	0.3348909	0.65066	-5.905268
ARHGEF39	0.0638625	6.9373284	1.0186032	0.335014	0.65081	-5.905538
FOXN2	-0.176964	9.5946922	-1.01798	0.3352942	0.65115	-5.906152
NPLOC4	0.1283146	8.2007952	1.0179719	0.3352981	0.65115	-5.90616
HRK	-0.091828	7.9950022	-1.017919	0.335322	0.65115	-5.906213
FBXL3	-0.109436	7.5030084	-1.017462	0.3355276	0.65146	-5.906663
SNORD14A	-0.130945	8.1673023	-1.016798	0.3358266	0.65189	-5.907317
MTHFSD	0.0697332	7.4401677	1.0167754	0.3358368	0.65189	-5.907339

LOC728178	-0.087928	7.0474889	-1.016143	0.3361219	0.6521	-5.907962
TRMU	-0.079828	7.5979815	-1.015784	0.3362839	0.6521	-5.908316
ZNF92	-0.067841	6.9275272	-1.015777	0.3362867	0.6521	-5.908322
HLCS	0.0715873	7.4435489	1.015777	0.3362869	0.6521	-5.908323
FYN	0.069371	7.8111346	1.0156194	0.336358	0.6521	-5.908478
CCDC61	0.0921335	6.9899896	1.0155427	0.3363926	0.6521	-5.908553
ITGA6	-0.103492	7.1227785	-1.015391	0.336461	0.6521	-5.908702
UXS1	0.1030025	7.1546737	1.0153273	0.3364898	0.6521	-5.908765
LTV1	-0.073264	10.704104	-1.015327	0.3364898	0.6521	-5.908765
CSDE1	0.0741419	7.6211273	1.0153186	0.3364937	0.6521	-5.908774
TWF2	0.1078219	9.4565399	1.0153053	0.3364997	0.6521	-5.908787
DDR1	0.0644879	7.1696936	1.0150889	0.3365974	0.6521	-5.909
NPIPB8	-0.069561	7.5547442	-1.015042	0.3366188	0.6521	-5.909046
HOXA4	-0.069489	6.8199244	-1.015039	0.33662	0.6521	-5.909049
DUS3L	0.0703697	8.1795581	1.0149676	0.3366521	0.6521	-5.909119
ZNF227	0.0639473	6.9412725	1.0149482	0.3366609	0.6521	-5.909138
UBE2D4	-0.078835	9.2697866	-1.014826	0.3367162	0.65212	-5.909259
DHX58	0.0782191	6.839419	1.0144256	0.3368968	0.6523	-5.909652
GPRASP1	0.1009148	6.9806458	1.0143671	0.3369233	0.6523	-5.90971
GAB2	0.0646604	7.0067124	1.0143216	0.3369438	0.6523	-5.909754
TIMM8B	-0.199096	8.8381749	-1.014161	0.3370162	0.65235	-5.909912
NEUROG2	0.0833699	7.1241402	1.0138726	0.3371466	0.65252	-5.910196
GALNT11	0.0621443	6.6729163	1.0137342	0.3372092	0.65255	-5.910332
BHLHB9	-0.095774	6.9104362	-1.013645	0.3372495	0.65255	-5.910419
TGFBRAP1	0.2921989	8.2608904	1.0133719	0.337373	0.6527	-5.910688
ANKRD36	-0.091681	7.3970077	-1.013226	0.3374392	0.65274	-5.910831
ARHGEF17	0.0868711	6.8474581	1.0126621	0.337694	0.65303	-5.911385
ZNHIT6	0.0913412	9.4384434	1.0122633	0.3378745	0.65303	-5.911776
APOM	0.0776375	7.3087448	1.0122201	0.337894	0.65303	-5.911819
PEX11B	0.0943879	9.9288197	1.0121979	0.3379041	0.65303	-5.91184
NDRG2	-0.066769	6.9425026	-1.012138	0.3379312	0.65303	-5.911899
TLE2	0.0616527	6.8737489	1.0121339	0.337933	0.65303	-5.911903
SEC22B	-0.114339	8.7744514	-1.01212	0.3379393	0.65303	-5.911917
SNORA20	-0.080679	6.9758542	-1.012098	0.3379495	0.65303	-5.911939
OR4C13	-0.077043	6.7979926	-1.011923	0.3380283	0.6531	-5.91211
CXXC1	-0.083798	10.650524	-1.011401	0.3382649	0.65347	-5.912622
SNORA71A	-0.080953	6.9782195	-1.010956	0.3384668	0.65377	-5.913059
GGPS1	-0.074542	8.0891477	-1.010682	0.3385907	0.65388	-5.913327
LRRC75A	-0.107508	6.8658979	-1.010637	0.3386112	0.65388	-5.913371
SPPL3	0.0901276	7.1355787	1.0102382	0.338792	0.65414	-5.913762
SLC2A13	0.0697384	6.7120138	1.0101172	0.3388469	0.65416	-5.913881
PLRG1	0.0826362	10.540116	1.0099159	0.3389382	0.65422	-5.914078
TEF	0.0983772	7.6940276	1.0098499	0.3389682	0.65422	-5.914143

NCBP2-AS2	0.0646358	8.0163405	1.0092485	0.3392411	0.65466	-5.914732
SPRR1B	-0.085678	6.9922701	-1.009056	0.3393287	0.65471	-5.914921
LOC644173	-0.077654	6.9835328	-1.009	0.3393541	0.65471	-5.914976
ZER1	0.0747407	7.0356898	1.0088867	0.3394054	0.65472	-5.915086
SNORD63	-0.072096	6.79593	-1.008607	0.3395324	0.65484	-5.91536
PIANP	0.0874382	7.0508104	1.0085517	0.3395576	0.65484	-5.915414
SLC36A1	0.0750805	7.4949123	1.0084576	0.3396003	0.65484	-5.915506
LRCH2	0.0694514	6.9031204	1.0079557	0.3398285	0.65519	-5.915997
ZNF511	-0.091963	10.732334	-1.007791	0.3399032	0.65519	-5.916158
HNRNPLL	0.0811695	6.8734365	1.0076931	0.3399479	0.65519	-5.916254
FOXI2	0.080732	6.7213108	1.007577	0.3400007	0.65519	-5.916368
HES1	0.0859133	7.7402492	1.0074254	0.3400696	0.65519	-5.916516
HMGCS2	0.1038655	6.9643338	1.0073946	0.3400836	0.65519	-5.916546
SMCHD1	0.0839316	7.2486099	1.0072477	0.3401504	0.65519	-5.91669
PLAC8	-0.068279	10.515738	-1.007217	0.3401645	0.65519	-5.91672
TTTY11	-0.075697	6.8275648	-1.007169	0.3401863	0.65519	-5.916767
TLR6	-0.06932	7.49341	-1.006629	0.3404318	0.65557	-5.917294
VILL	-0.064568	6.6850966	-1.006257	0.3406013	0.65581	-5.917658
SORD	-0.064075	7.0829839	-1.005974	0.3407303	0.65591	-5.917934
TRPV1	-0.075091	6.9543336	-1.005731	0.3408407	0.65591	-5.918171
WDR76	0.091492	7.7858496	1.0057269	0.3408428	0.65591	-5.918176
ZMYM5	-0.065312	7.4835855	-1.005694	0.3408576	0.65591	-5.918208
TMEM169	0.0672834	6.7769142	1.0056543	0.3408759	0.65591	-5.918247
IMPACT	-0.073948	6.8042559	-1.005425	0.3409802	0.65602	-5.91847
SHCBP1	-0.110713	9.5948693	-1.005144	0.3411084	0.65615	-5.918745
MAPK13	-0.066591	7.2766445	-1.005014	0.3411676	0.65615	-5.918871
MAP2K7	0.0807537	7.3415044	1.0049456	0.3411989	0.65615	-5.918938
CNNM2	0.0640511	6.9904652	1.0048911	0.3412237	0.65615	-5.918992
OR5AN1	0.0690442	6.7587587	1.0047719	0.3412781	0.65616	-5.919108
ATP6V0E1	0.086011	10.835991	1.0046816	0.3413193	0.65616	-5.919196
SYAP1	-0.085085	8.5023756	-1.004387	0.3414535	0.65631	-5.919483
ZFYVE19	0.0882152	8.4151185	1.0043148	0.3414866	0.65631	-5.919554
SLC26A5	0.0617779	6.8413663	1.0037126	0.3417615	0.6567	-5.920141
KANSL1	0.0705865	8.9230567	1.0036229	0.3418024	0.6567	-5.920229
SH2B1	0.0933416	7.4238144	1.0035147	0.3418518	0.6567	-5.920334
TCAF1	0.1028537	9.8986675	1.0033385	0.3419323	0.6567	-5.920506
TAS2R14	-0.10889	7.2739203	-1.003268	0.3419643	0.6567	-5.920574
DGKD	0.0807848	7.671623	1.0031828	0.3420034	0.6567	-5.920658
MOSPD1	-0.076193	7.153783	-1.003173	0.3420078	0.6567	-5.920667
BAZ2A	-0.069616	6.8782931	-1.00296	0.3421051	0.6568	-5.920875
LPL	-0.093425	6.8439348	-1.002846	0.3421573	0.65682	-5.920986
PHACTR1	0.0686457	9.1197897	1.0025815	0.3422781	0.65696	-5.921243
TP53BP2	-0.073848	7.2209919	-1.002388	0.3423665	0.65698	-5.921432

CMPK1	0.1350418	9.930033	1.0023196	0.3423979	0.65698	-5.921499
HR	-0.067262	6.9351764	-1.002269	0.3424209	0.65698	-5.921548
ALOX15B	0.0874124	6.9959395	1.0020005	0.3425438	0.65713	-5.921809
UBA2	-0.169409	8.1023251	-1.001823	0.3426249	0.6572	-5.921982
ABCA3	0.0788545	6.7346331	1.0016798	0.3426905	0.65724	-5.922122
SMARCAL1	0.0695551	8.5963686	1.0014845	0.3427798	0.65731	-5.922312
ST3GAL5	0.0699703	8.1357041	1.0012879	0.3428698	0.65731	-5.922503
LILRA2	0.0699457	6.7578312	1.0011808	0.3429188	0.65731	-5.922607
OLIG2	0.0787884	6.7557309	1.0010953	0.3429579	0.65731	-5.92269
RAD51	-0.087255	7.8247185	-1.001071	0.3429692	0.65731	-5.922714
AGER	-0.078705	6.9711974	-1.001009	0.3429972	0.65731	-5.922774
VAMP7	-0.097012	9.8310082	-1.000617	0.343177	0.65756	-5.923156
FGD1	-0.067277	6.7405473	-1.000209	0.3433637	0.65763	-5.923552
RPL37	0.0696393	7.9950056	1.0001858	0.3433745	0.65763	-5.923575
LOC1001281	-0.079773	7.1647932	-1.000176	0.3433789	0.65763	-5.923584
PSAPL1	0.0732832	6.9859841	0.999986	0.343466	0.65763	-5.923769
NHLRC3	-0.08719	7.4917043	-0.999805	0.3435491	0.65763	-5.923945
TSPY2	-0.067623	6.9456339	-0.999787	0.3435571	0.65763	-5.923962
PPIL6	-0.084875	6.773803	-0.999739	0.3435792	0.65763	-5.924009
NETO1	-0.074048	6.9934151	-0.999679	0.3436067	0.65763	-5.924068
RNF113A	-0.107213	8.610108	-0.999608	0.3436391	0.65763	-5.924136
AZIN2	0.0692349	6.7527888	0.9994392	0.3437166	0.65763	-5.924301
TMEM208	0.0680107	8.9418569	0.9994377	0.3437173	0.65763	-5.924302
NTN5	-0.062354	6.8891938	-0.999296	0.3437822	0.65763	-5.92444
CMTR2	-0.113567	8.1437952	-0.99924	0.3438078	0.65763	-5.924494
STX10	-0.075237	8.9750606	-0.999161	0.3438443	0.65763	-5.924571
DEDD2	-0.130689	9.1326356	-0.99872	0.3440464	0.65779	-5.924999
DNM1P35	-0.070746	6.8831341	-0.998717	0.3440481	0.65779	-5.925003
SMN1	-0.067277	7.2088763	-0.998468	0.3441622	0.65779	-5.925244
CINP	0.0934458	7.7086549	0.9983936	0.3441963	0.65779	-5.925316
RPL36A	-0.08035	8.6258239	-0.998346	0.3442181	0.65779	-5.925362
LOC1001909	-0.179298	8.4388173	-0.998257	0.3442589	0.65779	-5.925449
HOXC6	0.0609315	7.3766812	0.998218	0.3442769	0.65779	-5.925487
RNF216	0.0666021	7.7136736	0.9980247	0.3443656	0.65779	-5.925674
NCOA5	-0.084749	8.9623492	-0.998008	0.3443732	0.65779	-5.92569
OGN	-0.081905	6.8515134	-0.997998	0.3443778	0.65779	-5.9257
SLC46A3	0.0723329	8.1180037	0.9973108	0.3446935	0.65831	-5.926367
NNT	-0.076825	7.7956245	-0.9972	0.3447446	0.65832	-5.926475
SSTR2	0.1317021	8.7959498	0.9964908	0.3450704	0.65882	-5.927162
PPHLN1	-0.065252	8.5931934	-0.996436	0.3450957	0.65882	-5.927216
NFAT5	0.0839431	7.169401	0.996027	0.3452838	0.65909	-5.927612
MELTF	-0.085493	6.9643125	-0.99577	0.3454021	0.65923	-5.927861
ZNF330	-0.104915	9.1161165	-0.995536	0.3455099	0.65935	-5.928088

LSM11	0.0854933	6.9919482	0.9952838	0.3456258	0.65938	-5.928332
ROM1	0.0639621	7.6872152	0.9952191	0.3456556	0.65938	-5.928395
ANKLE2	-0.068488	8.9899159	-0.995207	0.3456611	0.65938	-5.928406
PUM3	0.1168466	9.9769445	0.9949909	0.3457607	0.65946	-5.928615
CCDC28A	-0.089496	9.014743	-0.994909	0.3457986	0.65946	-5.928695
CERS6	-0.099823	6.9197216	-0.994827	0.3458361	0.65946	-5.928774
DIS3L	-0.143804	9.74317	-0.994722	0.3458846	0.65946	-5.928876
MKRN3	-0.06259	6.771857	-0.994439	0.3460148	0.65962	-5.929149
IFITM2	0.079642	8.1211556	0.9943258	0.3460671	0.65964	-5.929259
LRP8	-0.091994	8.558065	-0.993945	0.3462424	0.65984	-5.929627
LTC4S	-0.079787	6.7451457	-0.993895	0.3462658	0.65984	-5.929676
ATP5H	0.084899	12.809983	0.9934597	0.3464664	0.66014	-5.930097
KLHL23	0.0706222	7.5025417	0.9929906	0.3466828	0.66043	-5.930551
KLHL5	-0.07681	8.7308697	-0.992839	0.3467529	0.66043	-5.930698
ZNF816	-0.079809	7.8874329	-0.992828	0.3467577	0.66043	-5.930708
SLC25A31	-0.095854	6.9079467	-0.992718	0.3468088	0.66043	-5.930815
LCLAT1	-0.081082	8.269566	-0.992544	0.3468892	0.66043	-5.930983
SIX2	-0.090705	6.817457	-0.992541	0.3468902	0.66043	-5.930985
CAPRIN2	-0.097773	7.4871166	-0.992237	0.3470307	0.66061	-5.931279
MBTPS1	0.0874388	8.6382133	0.9919959	0.3471421	0.66074	-5.931512
PCGF5	-0.126444	7.6384996	-0.991648	0.3473028	0.66096	-5.931848
ADGRG5	-0.074224	6.9911482	-0.991451	0.3473939	0.66104	-5.932038
RNF126	0.0769442	8.9237029	0.9911992	0.3475102	0.66118	-5.932281
ANKRD40	0.0666206	8.0028711	0.9909664	0.3476178	0.66122	-5.932506
SUFU	0.0988146	6.9943653	0.9909594	0.3476211	0.66122	-5.932513
LTK	-0.107867	6.8537653	-0.990814	0.3476884	0.66125	-5.932653
SQOR	-0.080807	6.9434652	-0.990668	0.3477559	0.66125	-5.932794
CFAP65	-0.099574	6.9015677	-0.990628	0.3477746	0.66125	-5.932833
TGFBR1	-0.074014	6.8623604	-0.990385	0.3478869	0.66131	-5.933067
VPS13C	0.0946022	7.5384758	0.9903655	0.3478957	0.66131	-5.933086
MATR3	-0.091575	9.3081725	-0.990252	0.3479484	0.66132	-5.933195
PCDH20	-0.061428	6.7786709	-0.989661	0.3482216	0.66163	-5.933765
KCNG3	-0.138059	6.8427863	-0.989645	0.3482292	0.66163	-5.933781
STN1	-0.063006	7.8399605	-0.989549	0.3482735	0.66163	-5.933873
MOS	-0.079019	7.1690021	-0.989435	0.3483264	0.66163	-5.933983
ARPC1B	0.1557543	9.9210555	0.9894168	0.3483349	0.66163	-5.934001
RAB3GAP2	0.1083026	10.083192	0.9891372	0.3484644	0.66177	-5.93427
ZNF462	-0.063164	6.7779329	-0.989062	0.3484991	0.66177	-5.934342
ADAM2	0.0925588	6.9625579	0.9888544	0.3485954	0.66178	-5.934543
IZUMO4	0.0671288	7.5987506	0.9886658	0.3486828	0.66178	-5.934724
ERRFI1	0.0670383	6.6992888	0.9886307	0.3486991	0.66178	-5.934758
TNP1	-0.064079	6.8207026	-0.988501	0.348759	0.66178	-5.934883
TRIM51EP	-0.063596	7.0264482	-0.988474	0.3487719	0.66178	-5.934909

EFR3B	-0.074407	6.9515384	-0.988463	0.348777	0.66178	-5.93492
SAT1	-0.076114	10.58183	-0.98814	0.3489267	0.66179	-5.935231
WDR49	0.0606484	6.8191957	0.9881264	0.3489329	0.66179	-5.935244
TBL1XR1	0.0935194	8.1845129	0.9880779	0.3489553	0.66179	-5.935291
DOCK3	0.1023412	7.1552755	0.9880596	0.3489638	0.66179	-5.935308
SMIM12	-0.111061	8.2614305	-0.987861	0.3490558	0.66185	-5.935499
RHOT1	-0.085718	8.4090711	-0.987733	0.3491152	0.66185	-5.935622
PIGM	0.0749999	8.4812543	0.9875533	0.3491987	0.66185	-5.935796
DHRS4	0.067056	8.2922556	0.9875483	0.349201	0.66185	-5.9358
SUCLG1	-0.128263	11.036054	-0.987496	0.3492253	0.66185	-5.935851
DNAJC28	-0.110223	9.588438	-0.987275	0.3493278	0.66196	-5.936063
BEX4	-0.073249	6.7265903	-0.986951	0.3494783	0.66207	-5.936375
FAM107B	-0.097335	10.616702	-0.986864	0.3495184	0.66207	-5.936458
DLL3	-0.0615	6.7503989	-0.986857	0.3495219	0.66207	-5.936466
HLA-DRB1	0.0784621	8.3761088	0.9865892	0.3496462	0.66222	-5.936723
ZBTB7B	0.1036584	7.1818222	0.9862844	0.3497877	0.6624	-5.937016
MAK16	-0.135856	8.8918063	-0.985498	0.3501533	0.663	-5.937772
DMBX1	0.0865968	6.842442	0.9854165	0.3501911	0.663	-5.93785
ATP5B	0.0706379	14.428752	0.984768	0.3504927	0.66348	-5.938473
CLIC6	0.0627484	6.8043335	0.9845587	0.3505901	0.66358	-5.938674
HIST2H2AC	-0.093385	8.2702748	-0.984306	0.3507078	0.66372	-5.938917
ZNF101	-0.079806	7.4617363	-0.983842	0.3509235	0.66398	-5.939362
CLCN4	0.069057	6.9493043	0.983807	0.35094	0.66398	-5.939396
CDH20	-0.095568	7.1423458	-0.983458	0.3511024	0.6642	-5.93973
C1QTNF6	0.0723166	6.848465	0.9831467	0.3512476	0.6643	-5.940029
HIBCH	-0.085421	8.7887822	-0.983038	0.3512984	0.6643	-5.940134
OSBPL2	-0.086485	7.7472521	-0.982976	0.351327	0.6643	-5.940193
TM9SF1	0.0757223	7.4429499	0.9829645	0.3513325	0.6643	-5.940204
SETX	0.0747703	7.6581994	0.9827202	0.3514463	0.66442	-5.940438
RBM43	0.0661969	6.8187018	0.9819426	0.351809	0.66487	-5.941184
ANKRD55	-0.064475	6.7426105	-0.981918	0.3518203	0.66487	-5.941207
ANXA6	0.0750176	8.1896602	0.9818245	0.3518641	0.66487	-5.941297
ACAA1	-0.096212	8.8124935	-0.981678	0.3519325	0.66487	-5.941437
TBX18	-0.066622	6.9307818	-0.981601	0.3519685	0.66487	-5.941511
PEPD	0.1188366	10.389567	0.9815558	0.3519895	0.66487	-5.941554
C1orf226	0.0714865	6.9157846	0.9813041	0.352107	0.66487	-5.941795
KRTAP27-1	-0.098602	6.902341	-0.981267	0.3521244	0.66487	-5.941831
ANO6	-0.094522	7.1621281	-0.981205	0.3521533	0.66487	-5.94189
CSPG4	-0.059923	6.8389647	-0.981183	0.3521635	0.66487	-5.941911
ERLEC1	0.0824625	8.8750522	0.9810612	0.3522204	0.66487	-5.942028
TOX	0.0761191	8.1947944	0.9810434	0.3522286	0.66487	-5.942045
LINC00950	-0.065544	7.0435951	-0.980577	0.3524463	0.66514	-5.942491
TASP1	-0.07254	7.6566227	-0.98054	0.3524636	0.66514	-5.942526

TPRN	0.0681178	8.1152609	0.9803735	0.3525416	0.6652	-5.942686
ARHGEF25	0.0755474	6.9219443	0.9800867	0.3526756	0.66523	-5.94296
IGSF3	0.066341	6.7892919	0.9800318	0.3527012	0.66523	-5.943013
CCT8	-0.087976	12.686862	-0.979982	0.3527245	0.66523	-5.94306
KCNV2	0.0610604	6.9076721	0.9799526	0.3527383	0.66523	-5.943089
DUSP6	0.0667638	6.8574457	0.9793003	0.3530433	0.66572	-5.943712
NPSR1	0.0950723	7.0182666	0.9791382	0.3531191	0.66577	-5.943867
RAP1GDS1	-0.062633	8.9046915	-0.979002	0.3531826	0.66577	-5.943997
KCNH2	0.0688314	7.0757004	0.9789526	0.353206	0.66577	-5.944045
MLLT6	-0.101471	9.513667	-0.978389	0.3534699	0.66604	-5.944584
RASAL2	0.0707022	6.7263721	0.9783753	0.3534762	0.66604	-5.944596
TBP	-0.070177	9.0931488	-0.978356	0.3534854	0.66604	-5.944615
PGAP2	0.1046942	10.222165	0.977894	0.3537015	0.66633	-5.945056
MID2	0.0603212	6.8351877	0.9778272	0.3537328	0.66633	-5.94512
CHMP2A	0.0607411	8.6677089	0.9775958	0.3538412	0.6664	-5.945341
STKLD1	0.0784098	6.8941392	0.9775132	0.3538799	0.6664	-5.94542
KLK3	0.0694663	6.8662052	0.9774552	0.3539071	0.6664	-5.945475
GMEB2	-0.074991	9.0458271	-0.976916	0.35416	0.66679	-5.94599
DNAJC25-GI	-0.082569	6.9828672	-0.976702	0.3542602	0.66689	-5.946194
SLC25A23	0.0978518	10.400125	0.9760025	0.3545883	0.66733	-5.946861
LOC285074	-0.073638	8.9917564	-0.975999	0.3545898	0.66733	-5.946864
CALN1	0.0697869	7.4026899	0.9758312	0.3546687	0.66733	-5.947024
PIR	-0.073509	6.7868418	-0.975745	0.3547093	0.66733	-5.947107
CCNE1	-0.065695	7.8671558	-0.975723	0.3547196	0.66733	-5.947128
SNORA7A	0.0879202	7.1778806	0.9756277	0.3547642	0.66733	-5.947218
LRRC17	-0.067433	6.8218329	-0.975386	0.3548776	0.66737	-5.947448
CCDC121	-0.061537	6.8771523	-0.975386	0.3548779	0.66737	-5.947449
CASP14	0.0954056	7.0632708	0.9752686	0.3549328	0.66739	-5.94756
FRMD4A	-0.088998	6.8344414	-0.974513	0.355288	0.66774	-5.948281
VPS33B	0.0902175	7.8799899	0.9742698	0.3554021	0.66774	-5.948512
STATH	-0.107455	6.8685484	-0.974264	0.3554047	0.66774	-5.948517
PROSER2	0.0663512	7.3347554	0.9741588	0.3554543	0.66774	-5.948618
SCN9A	0.1204082	6.9005007	0.9741143	0.3554752	0.66774	-5.94866
LSM14A	-0.133006	10.672852	-0.97411	0.3554774	0.66774	-5.948664
LOC100131(	0.0693836	6.8360838	0.9740902	0.3554865	0.66774	-5.948683
MIR1915	-0.094802	7.0178626	-0.974014	0.3555223	0.66774	-5.948755
ACER2	-0.066884	7.2567309	-0.973994	0.3555318	0.66774	-5.948774
SLX4	-0.104103	8.5100896	-0.97373	0.3556557	0.66788	-5.949025
KRT3	-0.07672	6.9513738	-0.973592	0.3557208	0.66792	-5.949157
LYPD5	0.0616121	6.8532022	0.9731994	0.3559055	0.66818	-5.94953
CACUL1	0.0735237	6.9646622	0.9730986	0.355953	0.66818	-5.949626
TMEM69	-0.069997	9.6995372	-0.972833	0.3560781	0.66833	-5.949879
PHACTR4	0.0932984	9.9572818	0.972248	0.3563534	0.66876	-5.950435

ASB13	0.0841411	8.454642	0.9716623	0.3566293	0.66918	-5.950992
CEP85L	0.0784188	7.0695058	0.9715873	0.3566647	0.66918	-5.951063
VAV1	0.0854909	8.0541989	0.9713547	0.3567743	0.66928	-5.951284
C1QBP	-0.092913	13.015952	-0.971255	0.3568211	0.66928	-5.951378
SGK494	-0.161448	7.8751025	-0.970998	0.3569427	0.66928	-5.951623
SMAD1	-0.079471	6.8382118	-0.970997	0.3569429	0.66928	-5.951624
RNASE4	-0.063279	7.0074409	-0.970983	0.3569498	0.66928	-5.951637
SNRNP27	-0.067844	9.2207686	-0.97081	0.3570312	0.66928	-5.951801
VSIG4	0.0738604	6.9205082	0.9707897	0.3570407	0.66928	-5.95182
EMILIN2	-0.082693	6.7981099	-0.970615	0.3571229	0.66935	-5.951986
C3orf18	0.0888337	7.0579791	0.9704916	0.3571814	0.66937	-5.952103
PGM3	0.0627208	7.8393375	0.970256	0.3572925	0.66943	-5.952327
CBWD5	-0.096402	9.4457397	-0.970227	0.3573062	0.66943	-5.952355
EIF2A	-0.076202	10.897609	-0.970132	0.3573512	0.66943	-5.952445
IFT27	0.0968436	8.2446278	0.9700215	0.3574032	0.66944	-5.952549
RUNX1T1	0.0708265	7.0448481	0.9697771	0.3575186	0.66956	-5.952781
SLC25A14	-0.076699	8.0731	-0.969618	0.3575938	0.66956	-5.952933
RTN3	0.0673135	8.0742911	0.9695984	0.357603	0.66956	-5.952951
CLDN8	0.0810945	6.8864227	0.9694463	0.3576748	0.66961	-5.953095
IL27RA	0.0689431	7.2233102	0.9693423	0.3577239	0.66961	-5.953194
TMEM30A	0.1049276	9.1090418	0.9691643	0.357808	0.66969	-5.953362
LINC00895	0.0657512	6.8127626	0.9687544	0.3580017	0.66996	-5.953751
TPM2	-0.059573	6.7084547	-0.968593	0.3580779	0.66999	-5.953904
AEN	0.0883084	9.3742541	0.9685264	0.3581094	0.66999	-5.953967
SNORD33	0.1588773	7.8810291	0.9683766	0.3581802	0.67004	-5.954109
MAIP1	-0.118068	10.196692	-0.968033	0.3583429	0.67026	-5.954435
LINC01634	0.0777876	6.9559438	0.9677799	0.3584624	0.67039	-5.954674
RGR	-0.073508	7.0290435	-0.967646	0.3585259	0.67041	-5.954801
C9orf40	0.0614512	8.4960131	0.9675518	0.3585703	0.67041	-5.95489
TMEM127	-0.087501	7.1712016	-0.967474	0.3586073	0.67041	-5.954964
CNTNAP5	-0.065229	6.942869	-0.967113	0.358778	0.67064	-5.955306
ADAMTS9	0.0632951	6.77479	0.9669569	0.3588519	0.67069	-5.955453
GRIN3B	0.0729333	6.8205582	0.96678	0.3589356	0.6707	-5.955621
TMLHE	0.0698404	7.4820227	0.9667587	0.3589457	0.6707	-5.955641
ACHE	-0.094399	7.0027187	-0.966541	0.3590488	0.6707	-5.955847
TNRC6C	0.0600691	6.7739001	0.9665132	0.359062	0.6707	-5.955873
ZNF264	-0.084279	6.9148977	-0.96642	0.3591061	0.6707	-5.955961
PPP2R2A	0.132178	9.6226652	0.9663085	0.3591589	0.6707	-5.956067
TTLL8	-0.111657	6.9873649	-0.966177	0.3592212	0.6707	-5.956191
ELOVL4	-0.07535	6.7766795	-0.966176	0.3592218	0.6707	-5.956192
CDC37	-0.123218	12.951246	-0.966001	0.3593049	0.67075	-5.956358
C5orf64	0.0683203	6.8707658	0.965928	0.3593392	0.67075	-5.956427
TYSND1	0.0633056	8.3729133	0.9656626	0.359465	0.67089	-5.956678

ANO8	0.1118878	7.1101667	0.9654531	0.3595643	0.67099	-5.956876
OR52K2	-0.068243	6.8152377	-0.964845	0.3598529	0.67139	-5.95745
TRIM67	0.0751857	6.9199838	0.9648145	0.3598672	0.67139	-5.957479
SLITRK5	-0.064936	6.8928764	-0.964641	0.3599494	0.67145	-5.957643
CBX2	0.0746781	8.2028469	0.9641732	0.3601716	0.67178	-5.958085
USP49	0.1731568	9.5854445	0.963707	0.3603929	0.67188	-5.958525
MRPS6	-0.106161	12.682721	-0.963676	0.3604075	0.67188	-5.958554
TRAPPC2	-0.067925	7.5845347	-0.963638	0.3604257	0.67188	-5.95859
HARS2	0.0687555	9.8410303	0.9636149	0.3604366	0.67188	-5.958612
RHOV	0.0713066	7.2857046	0.9635753	0.3604554	0.67188	-5.958649
ALDH7A1	-0.060339	6.8662262	-0.963276	0.3605974	0.67206	-5.958931
LOC401286	0.0637472	6.8797209	0.9629771	0.3607397	0.67213	-5.959213
STRIP2	0.1592952	8.8163612	0.9628414	0.3608042	0.67213	-5.959341
MIR637	-0.081734	6.9700017	-0.96283	0.3608095	0.67213	-5.959352
IL31RA	-0.073008	6.847613	-0.962811	0.3608187	0.67213	-5.95937
CERS2	0.0784741	9.4169577	0.9626187	0.36091	0.67222	-5.959551
ABCG8	0.0652529	6.7726706	0.9624797	0.3609761	0.67225	-5.959682
NSG1	0.0699595	6.7954784	0.961765	0.3613161	0.67272	-5.960356
FBXW11	0.0733697	9.1585294	0.9617557	0.3613205	0.67272	-5.960365
FTH1P11	0.120274	10.038757	0.9612132	0.3615787	0.673	-5.960876
MAGEA10	-0.066112	6.7659337	-0.961151	0.3616084	0.673	-5.960934
DENND4C	0.0741387	7.7042135	0.9611056	0.3616299	0.673	-5.960977
LOC400707	0.0852209	6.9247043	0.9610583	0.3616524	0.673	-5.961022
ZNF672	0.0823635	9.511319	0.9608503	0.3617515	0.6731	-5.961218
KDF1	0.0671334	6.9708961	0.9607401	0.361804	0.67311	-5.961321
ADGRE4P	0.0685255	6.8217925	0.9604521	0.3619412	0.67328	-5.961592
PPP1R12C	-0.100836	7.8255393	-0.960016	0.362149	0.67335	-5.962003
FBXW8	-0.060871	6.9113397	-0.959856	0.3622254	0.67335	-5.962154
TOR3A	-0.106659	9.263296	-0.959809	0.3622476	0.67335	-5.962197
DEPDC1	-0.118259	8.1492341	-0.959768	0.362267	0.67335	-5.962236
LARP1B	-0.074428	7.7985023	-0.959755	0.3622736	0.67335	-5.962249
SPINK9	0.0631399	6.8881316	0.9597394	0.3622808	0.67335	-5.962263
ATAD2	0.0953477	8.8491698	0.9596913	0.3623038	0.67335	-5.962308
PRRX1	-0.068493	6.8922884	-0.95931	0.3624858	0.67355	-5.962667
TSPAN32	-0.063725	6.8547143	-0.958999	0.362634	0.67355	-5.962959
ERVMER61-	-0.07193	6.766356	-0.958908	0.3626774	0.67355	-5.963045
MRPL54	0.0735791	10.866776	0.9588843	0.3626887	0.67355	-5.963067
AAK1	0.0738545	6.9417169	0.9588653	0.3626978	0.67355	-5.963085
BOLL	0.0622892	6.8395904	0.9587792	0.3627388	0.67355	-5.963166
DDHD2	0.0870357	7.9559435	0.9586615	0.362795	0.67355	-5.963276
C1orf123	-0.076957	9.4279811	-0.958622	0.3628139	0.67355	-5.963314
IL5RA	-0.088964	7.3945985	-0.958601	0.362824	0.67355	-5.963333
LRRC34	-0.101793	7.2558117	-0.958103	0.3630615	0.67388	-5.963801

CRAMP1	-0.08011	7.4044499	-0.958023	0.3630999	0.67388	-5.963876
PLAC8L1	-0.104433	6.9107479	-0.957934	0.3631421	0.67388	-5.963959
LOC388242	-0.09198	6.8755162	-0.957745	0.3632328	0.67396	-5.964138
TCERG1	0.0798776	8.2034412	0.9575854	0.3633089	0.67402	-5.964287
SIK1	-0.072506	7.2328808	-0.957202	0.3634919	0.67427	-5.964647
PLEKHA2	0.0708892	8.5587405	0.9565131	0.3638214	0.67472	-5.965294
PLEKHA8P1	-0.063794	7.753954	-0.956501	0.3638272	0.67472	-5.965305
ACTL8	-0.086192	7.6395238	-0.955699	0.364211	0.67535	-5.966057
MIR708	0.0777762	6.9332663	0.9555877	0.3642641	0.67536	-5.966161
SLC35G1	-0.062957	6.6764459	-0.955386	0.3643606	0.67545	-5.96635
ZFAT	0.0694485	6.8599917	0.9552894	0.3644069	0.67545	-5.966441
MOGS	0.1160651	7.630299	0.9551838	0.3644575	0.67546	-5.96654
MIR335	-0.061048	6.8802253	-0.954829	0.3646276	0.67569	-5.966873
RBMXP3	-0.106979	8.5386887	-0.954729	0.3646753	0.67569	-5.966966
PES1	-0.136709	9.656366	-0.954462	0.3648032	0.67584	-5.967216
TRIM59	0.0589308	6.9294012	0.9543452	0.3648592	0.67584	-5.967325
MPP6	0.1018003	9.1135794	0.9542108	0.3649237	0.67584	-5.967451
DNMT3B	-0.069792	7.2955696	-0.954133	0.364961	0.67584	-5.967524
PINK1	-0.078889	6.9131694	-0.954048	0.3650017	0.67584	-5.967604
SLC39A6	0.0777564	8.42993	0.9539872	0.3650309	0.67584	-5.967661
RACGAP1	0.0987401	8.5772712	0.953592	0.3652203	0.67604	-5.96803
CHD9	0.1003063	9.1445155	0.9535707	0.3652305	0.67604	-5.96805
DEFB128	0.0600499	6.9072734	0.9534717	0.365278	0.67604	-5.968143
CCT6P1	-0.10074	9.0773435	-0.952972	0.3655176	0.6764	-5.96861
TXNDC12	-0.103537	10.683079	-0.952754	0.3656222	0.67647	-5.968814
ZNF182	-0.076665	7.3340337	-0.952695	0.3656509	0.67647	-5.96887
KATNAL1	-0.058807	7.3309607	-0.952074	0.3659491	0.67694	-5.96945
FNBP1L	0.1028896	6.7641009	0.9516437	0.3661556	0.67723	-5.969852
PROP1	-0.13682	7.0765915	-0.950967	0.3664808	0.67757	-5.970484
PSORS1C2	0.0654404	6.8702765	0.9509117	0.3665074	0.67757	-5.970536
TIAF1	0.0659915	8.0694973	0.9508897	0.366518	0.67757	-5.970556
TBC1D16	0.0767006	6.8966602	0.950773	0.3665742	0.67757	-5.970665
FAM120C	0.0733245	6.9810604	0.9507106	0.3666041	0.67757	-5.970723
MORC2-AS1	0.0856487	7.516014	0.9506863	0.3666158	0.67757	-5.970746
CXorf23	-0.067105	6.9070878	-0.950417	0.3667455	0.67762	-5.970998
PPP1R1C	-0.075084	6.9434648	-0.950362	0.366772	0.67762	-5.971049
KLHL6	-0.105728	8.4035445	-0.950326	0.366789	0.67762	-5.971082
VPS37C	0.078687	9.7122358	0.9501629	0.3668676	0.67762	-5.971234
ABHD12B	0.0656004	6.9498119	0.9501452	0.3668761	0.67762	-5.971251
NUSAP1	-0.117532	10.233194	-0.950023	0.3669352	0.67764	-5.971365
LRCH3	0.1218784	8.0312521	0.9498448	0.3670207	0.67771	-5.971531
COX18	0.079808	6.8973684	0.9496898	0.3670953	0.67771	-5.971676
PAFAH1B2	-0.061447	7.3454732	-0.949657	0.3671109	0.67771	-5.971706

NBDY	-0.092855	10.881018	-0.949111	0.3673741	0.67808	-5.972216
DUX4L5	-0.064065	6.9976041	-0.949044	0.3674061	0.67808	-5.972278
PPIL3	-0.065798	7.8348137	-0.948894	0.3674785	0.67813	-5.972418
KIAA1328	0.0772466	7.024206	0.9487606	0.3675428	0.67815	-5.972542
HAL	-0.073332	6.8727657	-0.948684	0.3675799	0.67815	-5.972614
SLC25A18	-0.081103	6.9178227	-0.948447	0.3676941	0.67827	-5.972835
GPN3	-0.090217	8.5145553	-0.948272	0.3677782	0.67834	-5.972997
HSD17B7	0.1841315	10.436366	0.9481172	0.3678529	0.67834	-5.973141
UNC45B	0.1074369	6.9263955	0.9480245	0.3678976	0.67834	-5.973228
OARD1	0.0712026	8.8961766	0.9479831	0.3679176	0.67834	-5.973266
TDRD1	0.0764155	7.734871	0.947592	0.3681062	0.67847	-5.973631
SEMA6A	0.0687958	6.9457965	0.9475289	0.3681366	0.67847	-5.973689
ANKRD20A1	0.0651059	7.004809	0.9474952	0.3681529	0.67847	-5.973721
OR10K2	-0.062609	6.8106847	-0.947345	0.3682255	0.67847	-5.973861
UTP3	-0.121869	8.9990896	-0.947267	0.3682629	0.67847	-5.973933
MIGA1	0.0709552	7.9634391	0.9472644	0.3682642	0.67847	-5.973935
ZDHHC14	0.2209192	9.2919215	0.9471109	0.3683383	0.67849	-5.974078
OR2A9P	0.068017	6.787418	0.9470458	0.3683697	0.67849	-5.974139
ADCK2	-0.075277	9.5223523	-0.94695	0.3684162	0.67849	-5.974228
NIT2	-0.101738	9.5681958	-0.946745	0.3685147	0.67852	-5.974418
MCM8	0.0790984	8.881379	0.946719	0.3685275	0.67852	-5.974443
NAPSA	0.0990559	8.7078251	0.9464079	0.3686777	0.67866	-5.974732
APOL2	0.0585035	7.2949516	0.9463345	0.3687131	0.67866	-5.974801
MMP14	-0.062866	6.8655133	-0.946278	0.3687404	0.67866	-5.974853
DPF2	0.0699937	9.4738553	0.945804	0.3689694	0.67899	-5.975294
CACNA1S	0.0793371	7.0822577	0.9454864	0.3691229	0.67919	-5.975589
FAM208A	0.0741906	7.4817356	0.9453703	0.369179	0.67921	-5.975697
GNPTG	-0.060495	8.1534024	-0.944404	0.3696461	0.67998	-5.976594
MIF4GD	-0.090368	9.2004585	-0.944087	0.3697996	0.68018	-5.976888
TIMM22	-0.083255	10.380326	-0.943954	0.3698643	0.6802	-5.977012
PYGL	0.0675542	7.4541544	0.9438756	0.369902	0.6802	-5.977085
AQP11	-0.07728	7.1145592	-0.943675	0.369999	0.68029	-5.977271
KCNK1	-0.06046	6.8153974	-0.943494	0.3700866	0.68036	-5.977439
SOCS7	0.0626492	6.9443262	0.9432385	0.3702105	0.68042	-5.977676
SERINC3	0.0672346	7.84434	0.9432262	0.3702165	0.68042	-5.977687
POLG	-0.103796	8.5422645	-0.943066	0.3702943	0.68042	-5.977836
CEP57L1	-0.073177	7.0919085	-0.943052	0.3703007	0.68042	-5.977849
TSPAN1	-0.085201	6.9724099	-0.942889	0.37038	0.68048	-5.978
SLC2A1	0.0823947	10.081181	0.9425014	0.3705676	0.68065	-5.978359
NLRC5	-0.098799	7.0628346	-0.942497	0.37057	0.68065	-5.978364
TREM2	-0.067194	6.9154264	-0.942407	0.3706136	0.68065	-5.978447
GORASP1	-0.119775	8.7677786	-0.941908	0.3708554	0.68095	-5.978909
PRR14L	0.0701854	8.4565169	0.9417913	0.370912	0.68095	-5.979017

TRGV3	0.0592467	6.88926	0.9417776	0.3709186	0.68095	-5.97903
USF3	0.0743345	6.8574812	0.940996	0.3712979	0.68156	-5.979754
FLJ16779	0.0959656	7.0788512	0.9402285	0.3716706	0.68197	-5.980464
DCAF12	-0.095683	10.59407	-0.940174	0.371697	0.68197	-5.980514
DPM2	0.0620589	7.7546292	0.9400646	0.3717502	0.68197	-5.980616
S100A8	-0.05877	6.8928394	-0.940029	0.3717673	0.68197	-5.980648
IFT52	-0.074897	8.1210555	-0.940014	0.3717745	0.68197	-5.980662
SCRT1	-0.059083	6.9001531	-0.939776	0.3718904	0.68197	-5.980882
ERH	0.1196723	11.826743	0.9396248	0.3719639	0.68197	-5.981022
TAF2	0.0608774	9.10931	0.9395284	0.3720108	0.68197	-5.981111
TAB3	0.0617831	6.9237777	0.9394279	0.3720596	0.68197	-5.981204
HNRNPH1	-0.079443	9.5881297	-0.939409	0.3720688	0.68197	-5.981222
MAN2A2	0.0611758	7.0547198	0.9392577	0.3721424	0.68197	-5.981362
GPIHBP1	0.0579543	6.8021297	0.9392167	0.3721623	0.68197	-5.981399
SH2D4A	-0.059884	6.757636	-0.939155	0.3721921	0.68197	-5.981456
CREB3L4	0.088004	6.937905	0.9391372	0.3722009	0.68197	-5.981473
ANXA11	-0.05892	7.6332305	-0.93909	0.3722241	0.68197	-5.981517
AVEN	-0.075612	8.3063462	-0.938748	0.3723904	0.68218	-5.981833
CRYBA2	0.0652679	6.819596	0.9386361	0.3724447	0.68218	-5.981936
CMAHP	-0.078389	7.6086386	-0.938363	0.3725776	0.68218	-5.982188
RNF207	-0.059945	6.8103288	-0.938269	0.3726235	0.68218	-5.982275
ELL	0.0634035	8.6137885	0.9382427	0.3726361	0.68218	-5.982299
PI4K2A	-0.069542	7.6152156	-0.938196	0.3726589	0.68218	-5.982343
MYADML	-0.062414	6.9553882	-0.938187	0.3726634	0.68218	-5.982351
MIR611	-0.108604	7.1110805	-0.93806	0.3727251	0.68221	-5.982468
SRBD1	0.1038841	8.538436	0.937786	0.3728584	0.68237	-5.982721
TUG1	0.1625369	10.775834	0.9375176	0.3729891	0.6825	-5.982969
TUSC2	0.0845111	8.2709691	0.9374479	0.373023	0.6825	-5.983033
EPN2	0.0726051	6.8379869	0.936835	0.3733216	0.68296	-5.983598
SLC17A7	-0.076444	6.8816359	-0.936512	0.373479	0.68316	-5.983896
PAWR	-0.102328	8.0206709	-0.935967	0.3737446	0.68347	-5.984398
DPY19L3	-0.089341	6.9884051	-0.935872	0.373791	0.68347	-5.984486
KLRF1	0.0604479	6.8844968	0.9358704	0.373792	0.68347	-5.984488
5-Sep	0.0635631	6.8603964	0.9356608	0.3738942	0.68351	-5.984681
HNRNPA1	-0.100475	8.9436976	-0.93563	0.3739092	0.68351	-5.984709
ZNF280B	0.0841404	7.2082151	0.935544	0.3739512	0.68351	-5.984789
ZNF202	-0.05918	7.4544589	-0.935311	0.3740649	0.68363	-5.985003
SKAP2	0.0936463	8.7544691	0.935148	0.3741444	0.68364	-5.985153
MMP21	0.0855101	6.9008448	0.9350842	0.3741756	0.68364	-5.985212
ZMYM6	-0.062301	8.6766797	-0.934992	0.3742208	0.68364	-5.985297
TNFSF14	-0.098619	8.037204	-0.934922	0.3742547	0.68364	-5.985361
LCAT	-0.097181	6.9096729	-0.934751	0.3743385	0.6837	-5.985519
CSF1R	0.073223	7.0420717	0.9346298	0.3743974	0.68373	-5.98563

ITGA4	0.1108748	8.1530497	0.9343493	0.3745344	0.68389	-5.985889
SLC4A7	0.1339195	9.0361583	0.9342105	0.3746022	0.68393	-5.986016
CFD	-0.06427	6.7591626	-0.933937	0.3747357	0.68409	-5.986268
NICN1	-0.092764	8.8241241	-0.933445	0.3749765	0.6841	-5.986721
METTL1	-0.092821	8.5569584	-0.933436	0.3749809	0.6841	-5.986729
TCAIM	-0.065255	7.2576659	-0.933314	0.3750403	0.6841	-5.986841
PDLIM5	0.0702494	7.1427574	0.9331553	0.375118	0.6841	-5.986987
FXYD5	0.0679375	9.21503	0.9331372	0.3751268	0.6841	-5.987004
DUSP7	0.0735514	7.0102147	0.9331004	0.3751449	0.6841	-5.987037
TSHZ1	0.1001526	7.9705578	0.9328986	0.3752435	0.6841	-5.987223
TMEM189-U	0.0760767	8.3060476	0.9328804	0.3752525	0.6841	-5.98724
CHCHD6	-0.074129	8.5609298	-0.932826	0.3752792	0.6841	-5.98729
MOSPD3	0.06511	7.3393713	0.9328123	0.3752857	0.6841	-5.987302
ROBO4	0.0633519	6.8477146	0.9327653	0.3753088	0.6841	-5.987345
RCAN3	-0.064385	7.2789896	-0.932763	0.37531	0.6841	-5.987348
KLF15	0.0913699	7.8768861	0.9326731	0.3753538	0.6841	-5.98743
LTN1	-0.070389	7.5855989	-0.932315	0.3755293	0.68423	-5.98776
SLC8B1	-0.069249	7.5594756	-0.932183	0.3755939	0.68423	-5.987881
SATB1	0.0602398	6.8110569	0.9321821	0.3755941	0.68423	-5.987881
CDK5RAP3	-0.113703	9.1419013	-0.932149	0.3756101	0.68423	-5.987911
DIXDC1	-0.061498	6.7987541	-0.931946	0.3757099	0.68432	-5.988098
KIF21A	0.094157	7.116906	0.9314657	0.3759449	0.68452	-5.988539
AKR1C3	-0.079365	6.7985769	-0.931438	0.3759583	0.68452	-5.988564
CT47A1	-0.086343	6.8795484	-0.931433	0.3759607	0.68452	-5.988569
VWA3A	0.0638351	7.0239763	0.9311165	0.376116	0.6847	-5.98886
PMPCA	0.1130403	10.220767	0.9310446	0.3761512	0.6847	-5.988926
CUL3	-0.093574	7.0272145	-0.930902	0.3762209	0.68474	-5.989056
ATP5O	0.0937016	13.109985	0.9306626	0.3763384	0.68487	-5.989276
LEPR	0.0593178	6.8765933	0.9304464	0.3764444	0.68498	-5.989474
CYHR1	0.0616413	6.9332487	0.9303288	0.3765021	0.685	-5.989582
RGL2	-0.05894	7.231686	-0.930065	0.3766315	0.68515	-5.989824
TWISTNB	-0.100118	8.0400793	-0.929451	0.3769329	0.68541	-5.990387
GRHL1	0.084627	7.2506617	0.9294491	0.3769336	0.68541	-5.990389
PPFIA1	-0.061565	8.2640193	-0.929319	0.3769973	0.68541	-5.990508
PPP2R3B	0.0700616	7.331153	0.9291726	0.3770693	0.68541	-5.990642
STAG3L3	-0.165824	8.9608824	-0.929083	0.3771135	0.68541	-5.990725
RRNAD1	-0.11328	7.674178	-0.929023	0.3771429	0.68541	-5.990779
TAF1C	-0.072541	8.1609427	-0.928931	0.3771881	0.68541	-5.990864
PTPRS	0.0683498	6.9866179	0.9288855	0.3772102	0.68541	-5.990905
SNORD1A	-0.058591	7.3931112	-0.928834	0.3772356	0.68541	-5.990952
GPM6B	-0.059242	6.7400752	-0.928793	0.3772557	0.68541	-5.99099
HAR1B	-0.062702	6.8182762	-0.928713	0.3772952	0.68541	-5.991063
IER3	0.0605244	7.7113747	0.9284454	0.3774264	0.68557	-5.991308

BNIP1	-0.063583	8.3083003	-0.928148	0.3775725	0.6856	-5.99158
CBX3	-0.080159	8.4661939	-0.928132	0.3775806	0.6856	-5.991595
NIP7	-0.111285	11.038208	-0.928127	0.3775827	0.6856	-5.991599
C15orf59	-0.086004	6.8576259	-0.927793	0.3777468	0.68581	-5.991905
ITSN1	0.0685596	7.5076103	0.9275424	0.3778701	0.68583	-5.992135
PGLYRP2	0.0694877	6.7903554	0.9273457	0.3779669	0.68583	-5.992314
ADAMTS15	0.0766684	6.9626856	0.9273095	0.3779847	0.68583	-5.992348
PLEKHH2	-0.059799	6.7741084	-0.927142	0.3780671	0.68583	-5.992501
MT1H	0.0787696	6.7931802	0.9271018	0.3780868	0.68583	-5.992538
TRPV4	-0.083656	6.9428472	-0.927095	0.3780901	0.68583	-5.992544
RPL13P5	-0.073662	8.5199647	-0.927095	0.3780903	0.68583	-5.992544
RPP14	0.0735119	7.6362721	0.92701	0.3781319	0.68583	-5.992621
SRRM2-AS1	-0.061083	6.8194319	-0.926861	0.3782053	0.68587	-5.992758
PHF6	-0.06583	7.1335945	-0.926652	0.3783082	0.68597	-5.992949
CDC23	-0.093309	10.129867	-0.926466	0.3783994	0.68605	-5.993118
NTPCR	0.0744302	9.4305863	0.9257091	0.3787722	0.68665	-5.99381
SMIM19	-0.103688	9.2405319	-0.925052	0.3790959	0.68706	-5.99441
MRM1	0.0791633	7.280081	0.9250031	0.37912	0.68706	-5.994455
SOX30	-0.088	6.9794769	-0.924948	0.3791471	0.68706	-5.994505
SKIDA1	0.0694245	7.0552175	0.9248137	0.3792134	0.68706	-5.994628
INSM1	0.0738537	7.2643559	0.9247	0.3792694	0.68706	-5.994732
FAM135A	-0.118547	8.2568977	-0.924668	0.3792853	0.68706	-5.994761
USP12	-0.082184	7.8372424	-0.924379	0.3794276	0.68707	-5.995024
RHOU	-0.066956	7.0891766	-0.924377	0.3794286	0.68707	-5.995026
KIF16B	-0.070493	7.1081589	-0.924179	0.3795265	0.68707	-5.995207
ANKLE1	-0.069948	8.2870423	-0.924106	0.3795623	0.68707	-5.995274
POM121L12	-0.080474	7.0763091	-0.924078	0.379576	0.68707	-5.995299
MIR149	0.0626305	6.8852988	0.9240386	0.3795955	0.68707	-5.995335
CLDN20	-0.065704	6.9399822	-0.923997	0.3796158	0.68707	-5.995372
C21orf59	0.0624473	8.6983598	0.9237131	0.3797561	0.68723	-5.995632
MMP15	0.0630127	6.7915213	0.9235293	0.3798468	0.6873	-5.995799
MYO3A	0.0944888	6.9800199	0.9234428	0.3798895	0.6873	-5.995878
ZNF761	-0.096733	7.1258858	-0.923122	0.3800478	0.68747	-5.996171
C1GALT1	-0.119529	7.5479675	-0.923065	0.3800761	0.68747	-5.996223
HYAL4	0.0597588	6.9970062	0.9226099	0.3803007	0.68778	-5.996637
GIT2	-0.060421	7.9242274	-0.922527	0.3803415	0.68778	-5.996712
TMEM106A	0.1374332	8.7644647	0.9222794	0.380464	0.68789	-5.996938
DOC2A	-0.060557	6.8638936	-0.922057	0.3805737	0.68789	-5.99714
RASGRP4	0.0573052	7.1653909	0.9220184	0.3805929	0.68789	-5.997176
3-Sep	-0.06286	6.7785697	-0.921944	0.3806295	0.68789	-5.997243
MT1F	-0.078129	6.7955079	-0.921925	0.3806391	0.68789	-5.997261
MAFG	0.0734628	7.262985	0.9217135	0.3807436	0.68792	-5.997453
HIST1H4L	-0.121846	6.8482551	-0.92167	0.3807651	0.68792	-5.997493

RND2	0.0726665	6.9278093	0.9216098	0.3807949	0.68792	-5.997548
IQCD	-0.071706	6.9559375	-0.921248	0.380974	0.688	-5.997877
TBC1D7	0.106034	8.7881495	0.9212112	0.380992	0.688	-5.99791
UBR2	-0.074312	8.5259575	-0.920997	0.3810982	0.688	-5.998106
PRKCI	-0.149358	7.9092266	-0.920945	0.3811238	0.688	-5.998153
TAAR1	0.0605344	6.8887716	0.9209226	0.3811348	0.688	-5.998173
DUS2	0.0949146	9.7605002	0.920862	0.3811647	0.688	-5.998228
ALKBH5	0.0843323	12.215316	0.9208187	0.3811862	0.688	-5.998267
APOL3	0.0769513	8.5128082	0.9207555	0.3812174	0.688	-5.998325
NPSR1-AS1	0.0592939	6.822109	0.9197386	0.3817208	0.68867	-5.999249
PHLPP2	0.0873507	7.7411686	0.9197077	0.3817361	0.68867	-5.999277
RAB13	-0.099647	7.1810077	-0.919474	0.3818519	0.68867	-5.99949
PFN2	-0.076657	9.0504687	-0.919419	0.3818791	0.68867	-5.999539
MEG9	0.0820241	6.9911688	0.9194094	0.3818838	0.68867	-5.999548
ZNF431	-0.095093	7.4967138	-0.919318	0.3819291	0.68867	-5.999631
TMEM183B	0.0709224	11.794941	0.9192286	0.3819734	0.68867	-5.999712
ADAT3	0.1088872	7.1474852	0.9192204	0.3819775	0.68867	-5.99972
SEMA4G	0.0662113	6.9949919	0.9191544	0.3820102	0.68867	-5.99978
MCRS1	0.0797489	9.5657028	0.9190045	0.3820845	0.68871	-5.999916
IST1	-0.093088	10.496571	-0.918787	0.3821921	0.68882	-6.000113
MIR503	0.0557717	6.8740648	0.9186505	0.3822599	0.68882	-6.000237
WNT5A	-0.078688	7.9455251	-0.918569	0.3823001	0.68882	-6.000311
C11orf24	-0.072093	7.8145149	-0.918503	0.3823331	0.68882	-6.000371
CLDN7	0.0612633	6.773153	0.918253	0.382457	0.68888	-6.000598
EYA3	0.1025903	8.290112	0.9182412	0.3824629	0.68888	-6.000609
EIF2B1	-0.0743	10.117028	-0.918029	0.3825682	0.68888	-6.000801
RALGPS2	-0.072555	7.0194556	-0.91797	0.3825972	0.68888	-6.000854
RETNLB	-0.072793	6.9801434	-0.917895	0.3826348	0.68888	-6.000923
MIR9-1	-0.076574	6.9082467	-0.9177	0.3827312	0.68888	-6.001099
NCF4	-0.058923	7.3431009	-0.91754	0.3828105	0.68888	-6.001244
NOS2	-0.07636	6.8840426	-0.917525	0.3828181	0.68888	-6.001258
SMC6	-0.138851	8.2086046	-0.91752	0.3828207	0.68888	-6.001263
SPIC	-0.070396	7.1383863	-0.917352	0.382904	0.68888	-6.001415
TPT1	0.0820432	13.410677	0.9172389	0.3829602	0.68888	-6.001517
ZNF720	0.0593433	7.0920901	0.9171714	0.3829937	0.68888	-6.001579
APLP2	0.0605004	7.2978445	0.9171545	0.3830021	0.68888	-6.001594
MIR369	-0.06233	6.8854404	-0.917024	0.3830668	0.68888	-6.001712
10-Sep	-0.062956	6.8140983	-0.917017	0.3830702	0.68888	-6.001718
ZNF697	-0.06469	6.8495849	-0.916781	0.3831874	0.689	-6.001932
SP3	-0.075494	7.5757806	-0.916685	0.3832352	0.689	-6.002019
SDS	0.0913074	6.9994511	0.9164611	0.3833464	0.68912	-6.002222
RNF41	0.0699606	7.4130459	0.9162632	0.3834447	0.68913	-6.002402
BSCL2	-0.069962	9.4042805	-0.916258	0.3834475	0.68913	-6.002407

WBP4	-0.078128	8.5793502	-0.915955	0.3835977	0.68925	-6.00268
SH3BP5L	0.098654	7.4959222	0.9159349	0.3836079	0.68925	-6.002699
LOC286083	0.0722609	6.9093647	0.9156992	0.383725	0.68927	-6.002912
PECAM1	0.0900124	6.9520788	0.9156904	0.3837294	0.68927	-6.00292
MROH6	-0.065286	6.8003402	-0.915572	0.383788	0.68927	-6.003027
MNS1	-0.062498	6.8789477	-0.915431	0.3838585	0.68927	-6.003155
OCEL1	0.1062302	9.2050995	0.9152805	0.3839332	0.68927	-6.003291
RASGRP1	-0.163034	8.734829	-0.915166	0.3839899	0.68927	-6.003394
HYAL1	-0.070263	6.7872924	-0.915081	0.3840324	0.68927	-6.003472
ABAT	-0.060994	6.8458534	-0.914986	0.3840798	0.68927	-6.003558
NDUFA5	-0.131079	7.5048038	-0.91495	0.3840973	0.68927	-6.00359
SUPT4H1	-0.073866	8.2640922	-0.914905	0.3841198	0.68927	-6.003631
COMTD1	-0.090244	9.1915414	-0.914832	0.3841564	0.68927	-6.003697
ARID3B	0.0747549	7.2957622	0.9147749	0.3841847	0.68927	-6.003749
PXMP2	-0.082831	9.6102312	-0.914264	0.3844387	0.68964	-6.00421
DIP2C	-0.059629	6.7982619	-0.913845	0.3846477	0.68993	-6.00459
UBB	0.0963758	12.999662	0.9136025	0.3847683	0.69001	-6.004808
HIST1H2BJ	-0.090947	7.3589551	-0.91352	0.3848092	0.69001	-6.004883
ZNF629	0.0571825	6.7726599	0.9134714	0.3848336	0.69001	-6.004927
SPA17	-0.087709	7.5708823	-0.913332	0.3849029	0.69005	-6.005053
RPS6KA3	0.0793151	7.6833784	0.9131377	0.3849999	0.69013	-6.005228
IFRD2	-0.086774	9.0024913	-0.913002	0.3850673	0.69017	-6.005351
SARS	0.1035711	10.07522	0.9129122	0.3851122	0.69017	-6.005432
TANC2	-0.074713	6.7948641	-0.912709	0.3852137	0.69026	-6.005616
ETV2	-0.087175	7.0096934	-0.912511	0.3853122	0.69027	-6.005794
PPM1K	0.0692989	7.8307478	0.9125092	0.3853131	0.69027	-6.005796
ANXA1	-0.070286	6.7568275	-0.911936	0.385599	0.69039	-6.006313
POMT1	-0.066676	7.8253067	-0.911929	0.3856026	0.69039	-6.00632
GAP43	0.0888472	6.8586507	0.9118966	0.3856186	0.69039	-6.006348
LOC1001329	0.0800505	6.9706607	0.9118528	0.3856405	0.69039	-6.006388
ZNF467	-0.062496	6.7292538	-0.911762	0.385686	0.69039	-6.00647
MEN1	0.0861897	7.4513228	0.9116403	0.3857465	0.69039	-6.00658
GNPNAT1	0.0771432	8.8170078	0.9116269	0.3857532	0.69039	-6.006592
CBY1	-0.075428	7.9373994	-0.911619	0.3857572	0.69039	-6.006599
RTP5	-0.069963	6.9642377	-0.911461	0.3858361	0.69045	-6.006742
CKS1B	-0.063614	11.213984	-0.911195	0.3859688	0.69054	-6.006981
SBK1	0.0606055	7.8628736	0.91117	0.3859812	0.69054	-6.007004
MORN2	-0.071884	8.1997638	-0.910969	0.3860817	0.69063	-6.007185
SLC4A5	-0.063306	7.7262422	-0.910867	0.3861323	0.69064	-6.007277
METTL7A	-0.107826	8.3249142	-0.910644	0.386244	0.69075	-6.007478
NAT6	0.0817321	7.5269337	0.9103481	0.3863917	0.69093	-6.007744
LINC01686	0.0912396	6.8321468	0.9101348	0.3864982	0.69104	-6.007937
PIK3R3	0.0847241	7.0685876	0.9096515	0.3867398	0.69139	-6.008372

C14orf93	-0.090827	8.3635685	-0.909493	0.3868192	0.69144	-6.008515
TRIM52	-0.094897	7.0792399	-0.909211	0.3869599	0.69161	-6.008768
C17orf74	0.0737848	7.0086347	0.9086057	0.3872629	0.69201	-6.009313
HIST1H1D	-0.069099	6.8538581	-0.908579	0.3872765	0.69201	-6.009337
HEXA	-0.079551	6.8690882	-0.908283	0.3874244	0.69213	-6.009603
DTYMK	0.0709931	6.9575213	0.9082473	0.3874422	0.69213	-6.009635
DCLK3	0.0853784	7.2441723	0.9081578	0.387487	0.69213	-6.009716
PERP	-0.060744	6.8533739	-0.90794	0.3875961	0.69218	-6.009911
PLXNA4	0.0769698	7.0205376	0.9076529	0.3877398	0.69218	-6.010169
DNAJB11	-0.102803	11.717667	-0.907558	0.3877875	0.69218	-6.010255
TROAP	0.1060813	8.6919027	0.907557	0.3877879	0.69218	-6.010256
ARRDC4	-0.074013	6.8593123	-0.907537	0.3877978	0.69218	-6.010273
TYMS	0.0889351	11.555922	0.907488	0.3878224	0.69218	-6.010318
KIF1B	0.0606702	7.4377965	0.907437	0.387848	0.69218	-6.010363
ST3GAL4	-0.073233	7.1064677	-0.907271	0.3879313	0.69224	-6.010513
SDCBP	0.0860777	8.8164177	0.9067219	0.3882063	0.69265	-6.011006
RAI14	-0.065634	6.8987255	-0.906445	0.388345	0.69274	-6.011254
PIDD1	0.0576676	7.5195333	0.9063872	0.3883741	0.69274	-6.011306
MLF1	0.064789	6.7823992	0.906342	0.3883968	0.69274	-6.011347
OSTCP2	-0.136186	10.597444	-0.905798	0.3886696	0.69293	-6.011835
LGMN	-0.070922	8.1584003	-0.905676	0.3887309	0.69293	-6.011944
UNC13C	-0.110296	7.0605601	-0.90567	0.3887339	0.69293	-6.01195
TXLNA	0.0965045	10.599708	0.9056088	0.3887645	0.69293	-6.012005
ATF7	0.0732464	6.9420172	0.9055284	0.3888049	0.69293	-6.012077
GPD1L	-0.064245	10.339761	-0.905494	0.3888222	0.69293	-6.012108
SDF2	0.0605487	9.4142742	0.9054438	0.3888474	0.69293	-6.012153
TSTD1	0.0737854	7.7501153	0.9051907	0.3889743	0.69293	-6.01238
CTBP1	0.0989439	8.264375	0.9051895	0.388975	0.69293	-6.012381
MDP1	-0.095912	8.7002001	-0.905099	0.3890202	0.69293	-6.012461
MFNG	0.0638146	11.962777	0.9050879	0.389026	0.69293	-6.012472
SNORA38	0.0706286	6.991148	0.9048199	0.3891605	0.69308	-6.012712
MEAF6	-0.063987	7.5603576	-0.90471	0.3892157	0.69309	-6.01281
TESK2	-0.07143	7.543899	-0.903856	0.3896446	0.69377	-6.013575
FEM1A	0.0866046	10.033573	0.9036281	0.3897593	0.69389	-6.01378
CCNJ	-0.069818	6.9315481	-0.902712	0.3902201	0.69463	-6.0146
ROBO1	-0.068657	6.8473077	-0.902044	0.3905563	0.69514	-6.015197
MALSU1	-0.070145	11.478054	-0.901522	0.3908192	0.69522	-6.015664
PPM1A	0.1007547	8.2238148	0.9015216	0.3908193	0.69522	-6.015664
USP20	-0.062985	6.8955867	-0.9015	0.3908302	0.69522	-6.015683
SNORA5C	0.0649548	7.1826278	0.901438	0.3908613	0.69522	-6.015738
RPL29P2	-0.083416	7.5581233	-0.901383	0.3908888	0.69522	-6.015787
ZNF234	-0.070014	6.9052116	-0.901302	0.39093	0.69522	-6.01586
KLHDC3	-0.090756	10.952473	-0.901299	0.3909316	0.69522	-6.015863

BAALC	0.056419	6.972696	0.9011973	0.3909826	0.69522	-6.015954
EFHC1	0.0829795	7.1350467	0.901088	0.3910377	0.69524	-6.016051
FAM20C	-0.058558	6.7602671	-0.900876	0.3911445	0.69534	-6.01624
MPZL2	-0.064385	6.8932542	-0.900667	0.3912498	0.6954	-6.016427
OR5K4	0.0607606	6.9217217	0.9006188	0.3912741	0.6954	-6.01647
SPECC1	0.075056	7.020202	0.9002794	0.3914452	0.69547	-6.016773
PHKA1	0.0686123	8.0630971	0.90019	0.3914903	0.69547	-6.016853
ERP44	0.0674791	7.0596962	0.9000784	0.3915466	0.69547	-6.016953
LAIR2	0.0598995	6.8427505	0.9000264	0.3915728	0.69547	-6.016999
ZNF331	-0.072881	7.584346	-0.899988	0.3915922	0.69547	-6.017033
NOTCH1	-0.100679	8.15243	-0.899971	0.3916006	0.69547	-6.017048
HPS3	-0.066393	7.939812	-0.899506	0.3918353	0.69581	-6.017463
ANO2	0.0994286	6.8586814	0.8992457	0.3919667	0.69596	-6.017695
SNX7	-0.060875	6.7685525	-0.899072	0.3920546	0.696	-6.017851
SF3B5	0.1329345	11.333646	0.8990107	0.3920853	0.696	-6.017905
GPR1	0.1160885	8.8494686	0.8988299	0.3921766	0.69607	-6.018066
UAP1L1	-0.06654	7.3243433	-0.897936	0.3926279	0.69679	-6.018862
DCTN4	-0.06807	7.9560585	-0.897742	0.3927262	0.69687	-6.019035
TSSK6	-0.087255	6.9301976	-0.897655	0.3927702	0.69687	-6.019113
TAF13	0.0636845	7.1403113	0.8973615	0.3929185	0.69695	-6.019374
HIPK3	-0.057573	6.8088697	-0.897286	0.3929566	0.69695	-6.019441
SNORD4B	0.0755106	7.2478848	0.8972808	0.3929594	0.69695	-6.019446
C3orf36	-0.074348	7.0456862	-0.897161	0.3930201	0.69696	-6.019553
OLIG1	0.0786301	6.806589	0.8970898	0.3930559	0.69696	-6.019616
ENDOD1	0.0886116	7.9252961	0.8964917	0.3933585	0.69732	-6.020148
TRIM21	0.0765188	8.0865111	0.8964692	0.3933699	0.69732	-6.020168
MEGF9	0.0957558	7.1432581	0.896323	0.3934438	0.69732	-6.020298
BTD	-0.101953	6.9411807	-0.89596	0.3936275	0.69732	-6.020621
TMBIM4	-0.095105	9.804228	-0.895891	0.3936626	0.69732	-6.020683
MIR545	0.0843341	6.9782097	0.8958767	0.3936698	0.69732	-6.020695
RP2	0.0809301	7.5954484	0.8958562	0.3936801	0.69732	-6.020713
LRP2BP	0.0982255	6.9212977	0.8958539	0.3936813	0.69732	-6.020715
ASL	-0.058435	7.1110522	-0.895797	0.39371	0.69732	-6.020766
RNF10	0.0903432	8.2621904	0.8957211	0.3937485	0.69732	-6.020833
GRAMD1A	-0.134083	10.357592	-0.895573	0.3938235	0.69732	-6.020965
HIST2H4A	-0.090265	7.2538884	-0.895552	0.3938341	0.69732	-6.020984
TCL1A	0.0772593	10.001099	0.8953338	0.3939447	0.69743	-6.021177
MIR593	-0.071744	7.0352372	-0.895132	0.3940469	0.69748	-6.021357
ZNF763	0.0694485	7.5382102	0.8950188	0.3941042	0.69748	-6.021457
DNAJC24	0.0627915	8.0174708	0.8948383	0.3941957	0.69748	-6.021618
ATP6V1G2	-0.084171	7.4955842	-0.894815	0.3942074	0.69748	-6.021638
NRAV	-0.081316	7.2681594	-0.89478	0.3942253	0.69748	-6.021669
CLN3	0.0707138	7.5249497	0.8947085	0.3942615	0.69748	-6.021733

TPM3	0.0632731	7.7609291	0.8945422	0.3943458	0.69755	-6.021881
KCNA7	-0.076379	6.8977218	-0.89423	0.394504	0.6977	-6.022158
SGSM1	-0.059993	6.8251376	-0.894187	0.3945261	0.6977	-6.022196
UMOD	0.0690502	6.8854616	0.8939531	0.3946445	0.6977	-6.022403
KLF2	0.1019073	7.108038	0.8938552	0.3946941	0.6977	-6.02249
DNAJB1	0.0819204	8.9425807	0.8938455	0.3946991	0.6977	-6.022499
LRRK2	0.0685157	6.7933745	0.8937205	0.3947625	0.6977	-6.02261
ZNF765	-0.059852	6.9878131	-0.893644	0.3948014	0.6977	-6.022678
EPRS	0.1355667	11.641368	0.8936172	0.3948149	0.6977	-6.022702
UTP14C	-0.08914	8.2206713	-0.893502	0.3948734	0.69772	-6.022804
TTC12	0.0660406	7.3329165	0.8931888	0.3950322	0.69792	-6.023081
9-Sep	-0.089861	13.194181	-0.892058	0.3956065	0.69877	-6.024084
TRIM46	-0.095961	7.000001	-0.892048	0.3956118	0.69877	-6.024093
LY6G5C	0.056472	6.8454309	0.8917834	0.395746	0.69892	-6.024327
ITGB1	-0.072924	8.7660192	-0.89149	0.3958951	0.69892	-6.024587
LOXHD1	0.0782322	7.1264068	0.8914768	0.3959018	0.69892	-6.024598
SMA5	-0.071725	7.0225514	-0.891357	0.3959628	0.69892	-6.024705
TRPM4	-0.078541	6.869647	-0.891328	0.3959774	0.69892	-6.02473
SLC38A2	-0.09181	9.0234821	-0.891322	0.3959803	0.69892	-6.024735
TEC	0.0829176	7.1002471	0.8910318	0.396128	0.69909	-6.024992
HTR1E	0.0633798	7.051042	0.8907982	0.3962468	0.69922	-6.025199
LGALS2	-0.090158	6.9288282	-0.890662	0.3963159	0.69925	-6.025319
LYRM1	-0.079126	9.9406961	-0.890288	0.3965063	0.69951	-6.02565
NAG18	0.1057126	14.110454	0.8897139	0.3967986	0.69994	-6.026158
F3	0.0605839	6.8431598	0.8894391	0.3969385	0.70007	-6.026401
ZNRD1	-0.0694	9.1873761	-0.889378	0.3969697	0.70007	-6.026455
EIF2B3	-0.073512	8.8407622	-0.889231	0.3970445	0.70012	-6.026584
MALT1	-0.092483	8.0630595	-0.889076	0.3971237	0.70017	-6.026722
ADHFE1	-0.103187	7.0623957	-0.888658	0.3973364	0.70046	-6.02709
ACSM3	0.0614256	6.981534	0.8884035	0.3974662	0.70046	-6.027315
FXR1	0.0992978	9.2609029	0.8883995	0.3974682	0.70046	-6.027319
TATDN3	-0.067016	8.8223108	-0.888374	0.3974812	0.70046	-6.027341
ICE2	-0.062278	7.6552239	-0.888138	0.3976014	0.70053	-6.027549
POLR2L	0.0664504	8.0446243	0.8881106	0.3976155	0.70053	-6.027574
MSL2	0.0549402	6.9809642	0.8879401	0.3977024	0.70058	-6.027724
SNORD10	-0.109704	7.2563788	-0.887866	0.3977403	0.70058	-6.02779
CRTC3	0.1036341	7.3296619	0.8873929	0.3979815	0.7009	-6.028207
DYNLT3	-0.128745	8.4691922	-0.88729	0.3980342	0.7009	-6.028298
PBX4	0.064602	7.5333153	0.887134	0.3981137	0.7009	-6.028435
RAD54L	0.064314	8.616398	0.8871284	0.3981165	0.7009	-6.02844
PIGC	0.0600633	8.3491617	0.8870129	0.3981754	0.7009	-6.028542
GBP2	0.0817393	6.946033	0.8868786	0.398244	0.7009	-6.02866
SNW1	-0.098508	8.844774	-0.886804	0.398282	0.7009	-6.028726

SCIMP	-0.06577	7.5481434	-0.886755	0.3983071	0.7009	-6.028769
GPR135	0.072858	6.8867397	0.8866301	0.3983709	0.70093	-6.028879
SSR1	-0.106702	10.133647	-0.886393	0.3984919	0.70105	-6.029088
CHERP	0.0922874	8.1707326	0.8863088	0.3985349	0.70105	-6.029163
STEAP3	-0.058301	6.784236	-0.885614	0.3988897	0.70159	-6.029774
LINC00441	-0.058347	7.2673612	-0.885434	0.3989818	0.70167	-6.029933
PYHIN1	-0.077285	7.4559451	-0.885285	0.3990582	0.70172	-6.030065
OR2D3	-0.09395	6.8843496	-0.885009	0.3991993	0.7018	-6.030307
TMEFF1	-0.11398	7.4025054	-0.884957	0.3992255	0.7018	-6.030353
NR2C2	0.0568482	7.4279381	0.8848296	0.3992909	0.7018	-6.030465
GH2	0.0665446	6.8996778	0.8848182	0.3992967	0.7018	-6.030475
CEBPE	0.0606367	6.8363113	0.8841341	0.3996466	0.70233	-6.031077
CX3CL1	-0.068709	6.8523401	-0.883924	0.3997541	0.70242	-6.031261
GPATCH2	-0.069502	7.2261662	-0.883842	0.3997962	0.70242	-6.031333
HIPK1	0.0571351	6.8470209	0.8837165	0.3998604	0.70245	-6.031444
EHBP1	0.0728428	8.9270163	0.8834677	0.3999877	0.70251	-6.031662
DESI2	0.0605156	10.28433	0.8834653	0.399989	0.70251	-6.031664
UFSP1	-0.078221	7.091294	-0.882176	0.4006493	0.70358	-6.032796
MIR2116	0.0645601	6.9840018	0.8819664	0.4007569	0.70369	-6.032981
CCDC22	0.0843727	7.6115268	0.8815399	0.4009757	0.70399	-6.033355
SUGT1	-0.070988	8.431653	-0.881183	0.4011587	0.70421	-6.033668
PLD6	-0.064503	8.4243788	-0.881043	0.4012304	0.70421	-6.03379
SLC39A13	-0.081348	7.0484303	-0.880922	0.4012928	0.70421	-6.033897
GPR19	0.0752538	7.1453613	0.8806595	0.4014274	0.70421	-6.034127
SLC27A4	-0.070418	7.0076764	-0.880492	0.4015136	0.70421	-6.034274
KIAA1161	0.088123	7.1010277	0.880469	0.4015252	0.70421	-6.034294
SRSF2	-0.07347	12.622757	-0.880297	0.4016137	0.70421	-6.034444
PTGES3	-0.090953	10.789993	-0.880273	0.4016257	0.70421	-6.034465
SNORD5	-0.055297	6.8089976	-0.880266	0.4016296	0.70421	-6.034472
MGAM	-0.061017	6.9946139	-0.880205	0.4016606	0.70421	-6.034524
FAM45A	-0.074618	9.4009647	-0.880151	0.4016885	0.70421	-6.034572
POU4F2	0.0883873	6.7728174	0.8801227	0.401703	0.70421	-6.034597
VWA5A	-0.056076	6.9210751	-0.880068	0.401731	0.70421	-6.034645
RPS4Y1	0.0772242	13.144723	0.879736	0.4019017	0.7044	-6.034936
ANXA2P2	-0.086436	14.170586	-0.879667	0.4019372	0.7044	-6.034996
WDR45B	-0.067937	8.8057964	-0.879568	0.4019879	0.70441	-6.035082
LINC00544	0.0769253	7.0183834	0.8791736	0.4021906	0.7046	-6.035428
GDAP2	-0.076086	7.4460364	-0.879172	0.4021913	0.7046	-6.035429
HTR4	-0.059646	6.9674758	-0.879065	0.4022466	0.70461	-6.035523
NME1-NME	0.0931	11.06783	0.8781611	0.4027113	0.70534	-6.036313
MYL1	-0.067626	7.0215276	-0.877889	0.4028516	0.7055	-6.036552
OR10C1	0.0566388	6.8675557	0.8777895	0.4029025	0.7055	-6.036638
RBBP6	-0.056691	7.2197668	-0.877316	0.4031461	0.70576	-6.037052

AMY2A	0.0643436	6.9169593	0.8772779	0.4031659	0.70576	-6.037085
CDH2	0.0575968	6.8055075	0.8771533	0.40323	0.70576	-6.037194
RPL22	0.1045938	12.403851	0.8771328	0.4032406	0.70576	-6.037212
CRISPLD1	-0.062618	6.7587582	-0.876844	0.4033896	0.70585	-6.037465
ETS1	0.0752339	10.729415	0.8768356	0.4033937	0.70585	-6.037472
HSPD1	0.0598402	10.548356	0.87673	0.403448	0.70586	-6.037564
SEC24A	0.1112438	7.922482	0.8764633	0.4035855	0.706	-6.037797
ARMCX3	-0.064292	7.1738096	-0.876396	0.4036201	0.706	-6.037855
HMX2	0.0736596	6.8223233	0.8762328	0.4037043	0.70602	-6.037998
CCDC96	-0.058161	6.8179671	-0.876178	0.4037327	0.70602	-6.038046
FOXG1	0.0827837	7.0493604	0.875509	0.4040774	0.70645	-6.038629
HINT3	0.106864	7.7784647	0.8754405	0.4041127	0.70645	-6.038689
EXOC6	-0.055055	7.4176079	-0.87535	0.4041594	0.70645	-6.038768
SNAPC3	-0.083918	8.8080237	-0.875333	0.4041683	0.70645	-6.038783
ZHX2	0.0588986	9.157317	0.8747922	0.4044472	0.70681	-6.039254
RNF152	-0.067961	6.9665199	-0.874684	0.4045032	0.70681	-6.039349
FAM86EP	0.076966	6.8596908	0.8746049	0.4045438	0.70681	-6.039417
ERCC6	0.0808986	6.9739684	0.8745537	0.4045702	0.70681	-6.039462
AK3	-0.064611	10.190927	-0.874333	0.4046841	0.70693	-6.039654
RRM2B	-0.141728	8.622815	-0.874107	0.404801	0.70705	-6.039851
NAAA	-0.072831	8.2203119	-0.873991	0.4048606	0.70706	-6.039952
RAB17	-0.063497	6.7351068	-0.873547	0.40509	0.7073	-6.040338
HTR3A	0.068782	7.4727258	0.873483	0.4051231	0.7073	-6.040394
PAAF1	-0.06479	9.519264	-0.873437	0.4051468	0.7073	-6.040434
ZBTB22	-0.068025	8.6495314	-0.873358	0.4051875	0.7073	-6.040503
EME2	0.0672871	6.8604989	0.8726523	0.4055525	0.70785	-6.041117
MITF	-0.06456	6.8332948	-0.872474	0.4056447	0.70785	-6.041272
CCDC149	-0.06135	6.823214	-0.872463	0.4056501	0.70785	-6.041281
IL17C	0.0727628	6.9854562	0.8718596	0.4059624	0.70824	-6.041806
ANPEP	0.0628686	6.8290218	0.8718408	0.4059722	0.70824	-6.041822
GNB1L	0.1238391	8.2394649	0.8715818	0.4061062	0.70825	-6.042047
NAIF1	0.0712299	7.707495	0.8715124	0.4061421	0.70825	-6.042108
SPHK1	-0.057733	6.7531248	-0.871509	0.4061438	0.70825	-6.04211
IL32	0.0629844	7.6196656	0.8713106	0.4062466	0.70825	-6.042283
TET3	0.05756	6.8904119	0.871291	0.4062567	0.70825	-6.0423
STOM	0.056361	7.2404784	0.8712271	0.4062898	0.70825	-6.042355
GLTP	0.0982187	11.119645	0.8711721	0.4063182	0.70825	-6.042403
PDXK	0.0705689	9.441795	0.8710498	0.4063816	0.70827	-6.042509
C17orf49	0.0916807	9.9599957	0.8709664	0.4064248	0.70827	-6.042582
NFYA	0.0622795	7.3557825	0.8703252	0.4067569	0.70873	-6.043138
ALCAM	0.0699589	9.5347196	0.8702651	0.406788	0.70873	-6.04319
CD99L2	0.0615883	9.1708876	0.8701673	0.4068387	0.70874	-6.043275
MIMT1	0.0628926	6.8435011	0.8699641	0.406944	0.70884	-6.043452

BTBD3	0.0573728	6.8814626	0.8695939	0.4071359	0.70909	-6.043773
ABT1	0.0757353	7.8055652	0.8694186	0.4072268	0.70916	-6.043925
TMEM182	-0.058334	6.953725	-0.869196	0.4073419	0.70925	-6.044117
SFXN3	-0.066348	6.9942112	-0.869127	0.4073779	0.70925	-6.044177
PATJ	0.0726997	6.8841757	0.8685954	0.4076537	0.70965	-6.044638
ABCC1	0.1045546	7.0772233	0.8684965	0.407705	0.70965	-6.044724
XKR6	-0.057227	7.0625618	-0.868331	0.4077911	0.70972	-6.044867
GPR37	-0.074946	6.968729	-0.86814	0.4078901	0.70981	-6.045032
LMTK2	-0.079215	7.0313896	-0.868039	0.4079424	0.70981	-6.04512
OIP5	-0.057012	9.2482373	-0.867648	0.4081456	0.71008	-6.045459
MPP5	0.0784449	8.0308301	0.8675164	0.4082139	0.71012	-6.045572
CDRT4	-0.055027	6.7086451	-0.867203	0.4083764	0.71029	-6.045843
PRELID2	0.0660544	6.8007779	0.8671416	0.4084086	0.71029	-6.045897
SIM1	0.0548692	6.8595485	0.866946	0.4085102	0.71034	-6.046066
PDIA6	-0.116487	10.082278	-0.866899	0.4085344	0.71034	-6.046106
LCMT2	0.0881384	8.5845423	0.8666219	0.4086787	0.71043	-6.046346
HAND2-AS1	0.0597476	6.8771803	0.8666104	0.4086846	0.71043	-6.046356
LRRC20	-0.0659	7.7642876	-0.86633	0.4088306	0.71044	-6.046599
GAGE12J	-0.064797	6.7886641	-0.866303	0.4088444	0.71044	-6.046622
KIF20A	0.1046576	9.4117322	0.8662998	0.4088461	0.71044	-6.046624
HSPB3	0.0608564	6.9170512	0.8661921	0.4089021	0.71044	-6.046718
EPDR1	0.0673217	6.7930474	0.866133	0.4089329	0.71044	-6.046769
BTBD2	-0.10154	11.522221	-0.865863	0.4090731	0.71055	-6.047002
TCEA3	0.0593791	6.6938893	0.8658241	0.4090935	0.71055	-6.047036
ARL17A	-0.091724	7.1728692	-0.865471	0.409277	0.71078	-6.04734
CAPN12	-0.054848	6.8978079	-0.865358	0.409336	0.7108	-6.047438
LGR6	0.0805888	6.9389933	0.8652624	0.4093858	0.7108	-6.047521
RSBN1	0.1071669	8.5900471	0.8645996	0.4097308	0.71131	-6.048093
SETMAR	-0.086807	9.3946789	-0.863977	0.4100552	0.71178	-6.04863
DDI2	0.0961449	7.0585154	0.8638937	0.4100985	0.71178	-6.048702
PLPBP	0.0589672	9.5226003	0.8636228	0.4102397	0.71194	-6.048935
GALNT14	-0.088286	7.6650232	-0.86322	0.4104498	0.71222	-6.049283
ZAP70	-0.066559	7.0154538	-0.86298	0.4105746	0.71223	-6.049489
ZNF740	0.0807127	7.1651326	0.8629487	0.4105911	0.71223	-6.049516
TRIOBP	0.0609444	7.3126534	0.8629354	0.4105981	0.71223	-6.049528
SMC2	0.0906959	7.8926345	0.8627384	0.4107008	0.7123	-6.049697
MIR646HG	0.0644803	6.7696311	0.8626626	0.4107404	0.7123	-6.049763
TJP2	-0.057863	7.6610151	-0.862522	0.4108137	0.71234	-6.049884
HACE1	0.0572333	7.4096207	0.8624357	0.4108587	0.71234	-6.049958
12-Sep	0.0925672	6.916136	0.8621543	0.4110056	0.71251	-6.0502
SLC35B1	0.0946435	10.83554	0.8619383	0.4111183	0.71262	-6.050386
VRK2	-0.076126	7.6536607	-0.861776	0.4112028	0.71268	-6.050526
DNAJC4	-0.059807	7.5049044	-0.86147	0.411363	0.71288	-6.05079

C3orf67	-0.08639	6.9199421	-0.86115	0.4115298	0.71308	-6.051064
FBXW5	0.0661547	7.5880744	0.8608535	0.4116848	0.71323	-6.051319
EMX2OS	0.069128	7.4995605	0.8607933	0.4117162	0.71323	-6.051371
ERLIN1	0.0675518	7.5862246	0.8606912	0.4117696	0.71324	-6.051459
COPZ2	-0.071863	6.7947746	-0.860283	0.4119827	0.71349	-6.051809
PARP9	-0.066357	8.2463655	-0.860227	0.412012	0.71349	-6.051858
PNPT1	0.1206695	10.522855	0.8599542	0.4121548	0.71366	-6.052092
RPL23AP32	0.1003641	9.4591548	0.8597427	0.4122654	0.71376	-6.052274
CCDC103	0.0685324	6.9560726	0.8593999	0.4124447	0.71399	-6.052568
NRAS	-0.092327	8.6024191	-0.859283	0.412506	0.71401	-6.052669
CALD1	-0.087838	7.0242979	-0.858777	0.4127706	0.71438	-6.053103
GLRX3	-0.052229	9.7963542	-0.858261	0.4130407	0.71477	-6.053545
B9D1	-0.057043	7.4850627	-0.858048	0.4131523	0.71487	-6.053728
JRK	0.0789085	6.9822865	0.8578211	0.4132713	0.71499	-6.053923
CDC14A	0.0540409	7.0650484	0.8572048	0.4135942	0.71543	-6.054451
C1orf54	-0.063905	6.9249378	-0.857156	0.4136196	0.71543	-6.054492
WIPF1	0.0786078	9.172531	0.8569987	0.4137023	0.71549	-6.054627
POU2F2	0.112858	7.3935643	0.8568535	0.4137784	0.7155	-6.054752
DHX32	-0.061161	6.8521209	-0.856794	0.4138094	0.7155	-6.054802
CPSF1	0.0587945	10.070398	0.8566227	0.4138994	0.71557	-6.054949
FADS2	-0.070996	6.9262171	-0.855841	0.4143094	0.71603	-6.055618
LRRC10	-0.064196	6.8586737	-0.855834	0.4143133	0.71603	-6.055625
MED13	0.0622588	7.0118731	0.8558324	0.414314	0.71603	-6.055626
SUPT3H	0.0662937	7.0462775	0.8554649	0.4145069	0.71628	-6.05594
RAB23	0.0742088	8.3480223	0.8547765	0.4148684	0.71675	-6.056529
PMS2P5	0.0774131	9.0920135	0.8547535	0.4148805	0.71675	-6.056548
HES4	0.0647571	7.367764	0.8545608	0.4149817	0.71675	-6.056713
MRPL49	0.0633521	8.9745342	0.8544765	0.415026	0.71675	-6.056785
KDM5D	0.0849014	8.0736832	0.8544109	0.4150605	0.71675	-6.056841
BLCAP	0.0865238	8.5634682	0.8543929	0.4150699	0.71675	-6.056856
SPTA1	0.0539425	6.9354262	0.8538974	0.4153303	0.71711	-6.057279
SPRYD3	-0.123978	8.7307386	-0.853588	0.4154927	0.71714	-6.057543
REV3L	-0.071683	7.3093618	-0.853574	0.4155003	0.71714	-6.057556
NR4A2	-0.06746	6.8305022	-0.853465	0.4155575	0.71714	-6.057648
ACVR1B	0.0528637	7.418842	0.8534086	0.4155873	0.71714	-6.057697
H2AFJ	-0.054147	7.3551154	-0.853403	0.41559	0.71714	-6.057701
COA4	-0.07423	9.0782407	-0.853297	0.4156459	0.71715	-6.057792
PTBP2	-0.092107	8.5628065	-0.8529	0.4158546	0.71734	-6.05813
TMEM259	0.1120968	8.3602634	0.8528676	0.4158719	0.71734	-6.058158
EXOSC9	-0.058332	10.089448	-0.852788	0.4159139	0.71734	-6.058226
SYNC	0.0638732	7.035251	0.852627	0.4159985	0.71734	-6.058364
DIEXF	0.0555333	7.3265645	0.8525029	0.4160638	0.71734	-6.058469
SLK	0.1065065	7.9055208	0.8524762	0.4160779	0.71734	-6.058492

KCNK12	-0.08908	11.263561	-0.852408	0.4161137	0.71734	-6.05855
OR1N1	-0.065853	6.8753924	-0.852336	0.4161517	0.71734	-6.058612
OXNAD1	-0.062044	7.3565284	-0.851975	0.4163419	0.71754	-6.05892
PLA2G4C	-0.060214	7.3886289	-0.851908	0.4163768	0.71754	-6.058976
FLJ42627	0.0824799	7.3969816	0.8517613	0.4164543	0.71754	-6.059102
RFWD3	0.0915811	9.8912089	0.8517494	0.4164605	0.71754	-6.059112
TRPM2	0.07209	6.7952536	0.8514515	0.4166175	0.71772	-6.059365
ABCB6	-0.066923	7.3594587	-0.851294	0.4167003	0.71778	-6.059499
TSKU	-0.054089	6.7934541	-0.851086	0.4168099	0.71788	-6.059676
RFX5	0.0606347	9.1192594	0.8507833	0.4169695	0.71806	-6.059934
MLH3	-0.053939	6.9951109	-0.850655	0.4170371	0.71806	-6.060043
SMG9	0.0632897	7.9647274	0.8506081	0.4170619	0.71806	-6.060084
HOOK3	0.0591718	7.1297437	0.8500559	0.4173531	0.71843	-6.060553
MCM10	0.0847879	8.7301925	0.8500224	0.4173708	0.71843	-6.060582
YWHAG	-0.101622	9.9290584	-0.849869	0.4174515	0.71848	-6.060712
INVS	0.0644669	7.5554391	0.8495711	0.4176089	0.71855	-6.060966
DYNC1I1	0.0523723	6.7776124	0.8494658	0.4176644	0.71855	-6.061055
ZNF37A	-0.073486	7.2343414	-0.849371	0.4177147	0.71855	-6.061136
DIRAS3	-0.054773	6.8577119	-0.849269	0.4177681	0.71855	-6.061222
RIMKLB	0.0546368	6.9890608	0.8492254	0.4177913	0.71855	-6.06126
UBE2L6	-0.081325	10.601451	-0.849144	0.417834	0.71855	-6.061328
TFEC	-0.074595	7.0847955	-0.849134	0.4178394	0.71855	-6.061337
RBPJL	-0.070247	6.9675613	-0.848787	0.4180225	0.71878	-6.061632
SLC30A7	-0.105796	9.1252255	-0.848356	0.4182504	0.71878	-6.061998
RIPK1	0.0626522	7.6749247	0.8482814	0.4182898	0.71878	-6.062062
FAM156B	-0.137899	8.8847858	-0.848239	0.418312	0.71878	-6.062097
BFSP1	-0.061158	6.7588687	-0.848113	0.4183786	0.71878	-6.062204
TSPAN10	-0.08266	7.1608592	-0.8481	0.4183857	0.71878	-6.062216
SLFN12	-0.061219	6.8348207	-0.848033	0.4184208	0.71878	-6.062272
FBXO9	0.0610328	6.9936036	0.847903	0.4184897	0.71878	-6.062383
C1orf140	-0.059372	6.8651885	-0.847849	0.4185185	0.71878	-6.062429
RGS8	0.0649507	6.8606276	0.8478251	0.4185309	0.71878	-6.062449
GBP4	0.061102	6.8544537	0.8477881	0.4185504	0.71878	-6.06248
TMX4	0.0682032	8.3215598	0.8477706	0.4185597	0.71878	-6.062495
LRRC4B	-0.065759	6.8915938	-0.847545	0.4186787	0.7189	-6.062686
FAM126A	0.0641222	7.1672987	0.8472832	0.4188174	0.71897	-6.062909
PAQR4	-0.106745	9.8657467	-0.847278	0.41882	0.71897	-6.062913
TCL1B	-0.108818	7.1797131	-0.847174	0.4188749	0.71898	-6.063001
GRM5	0.0689359	6.864814	0.8470037	0.4189651	0.71903	-6.063146
KIF3C	0.0572072	6.7479629	0.846929	0.4190047	0.71903	-6.063209
USP48	0.057935	8.3902393	0.8464616	0.4192519	0.71915	-6.063605
SRI	-0.06672	9.3140767	-0.846437	0.4192647	0.71915	-6.063626
COX7A2L	0.0785754	12.02379	0.8464019	0.4192835	0.71915	-6.063656

CDRT1	-0.05835	6.8988441	-0.846383	0.4192934	0.71915	-6.063672
NKAIN2	-0.061733	6.8739387	-0.846221	0.4193792	0.71915	-6.063809
NLK	-0.071186	7.3987797	-0.846207	0.4193865	0.71915	-6.063821
FAU	0.0653666	13.899961	0.8460807	0.4194535	0.71915	-6.063928
C21orf33	0.0640189	10.029345	0.8460292	0.4194807	0.71915	-6.063972
DIS3L2	0.0549305	7.3603211	0.8459626	0.419516	0.71915	-6.064028
PRR5L	0.067756	6.7516263	0.8453631	0.4198334	0.71961	-6.064536
USP45	0.1013275	7.2978272	0.8449642	0.4200447	0.71989	-6.064874
LMNA	0.0655602	7.2002148	0.8448392	0.4201109	0.71991	-6.064979
USP6	-0.081815	6.9646165	-0.844747	0.4201599	0.71991	-6.065057
BAGE5	0.088949	7.1471247	0.8445779	0.4202494	0.71998	-6.0652
RHBDF2	-0.067292	8.6479012	-0.843075	0.4210463	0.72126	-6.066471
CACNB3	-0.058713	6.8850476	-0.84247	0.4213674	0.72173	-6.066981
PRDM11	-0.069578	8.6721394	-0.842027	0.4216027	0.72203	-6.067355
FAM110C	-0.056023	6.8852178	-0.841958	0.4216397	0.72203	-6.067414
IGFBP4	-0.057469	6.7338783	-0.841812	0.421717	0.72205	-6.067537
HNRNPA3P1	0.0590375	8.2211665	0.8417409	0.4217548	0.72205	-6.067597
CHMP1B	-0.081575	8.8206507	-0.841529	0.4218675	0.72213	-6.067776
ZNF395	0.0854056	8.2953695	0.8413964	0.4219378	0.72213	-6.067888
CPA5	-0.05822	6.8242405	-0.841341	0.4219675	0.72213	-6.067935
TMEM57	0.0565722	8.3807878	0.8412767	0.4220015	0.72213	-6.067989
GSTTP2	0.0533067	7.3273031	0.8411923	0.4220463	0.72213	-6.06806
ZNF75A	-0.066886	7.0916548	-0.840996	0.4221506	0.72222	-6.068225
FAM189A1	-0.078222	6.9682409	-0.840783	0.422264	0.72229	-6.068405
BTC	0.0873017	6.8760245	0.8407365	0.4222887	0.72229	-6.068444
CCDC27	0.0634741	6.8685763	0.8405296	0.4223987	0.72236	-6.068618
BUB1B	-0.092804	8.2338347	-0.840394	0.4224706	0.72236	-6.068732
TUBB3	0.0678626	8.5251752	0.8403787	0.4224789	0.72236	-6.068745
NAB1	-0.074033	8.2696415	-0.840118	0.4226175	0.72251	-6.068965
PROS1	0.0699207	6.8429595	0.8399396	0.4227125	0.72256	-6.069115
HYAL2	0.0846854	7.5771651	0.8398407	0.4227652	0.72256	-6.069198
PLCXD1	0.1284904	9.0759425	0.8397551	0.4228107	0.72256	-6.06927
PLCD3	-0.053858	6.8309863	-0.839672	0.422855	0.72256	-6.069341
ASCC1	0.0662155	10.100703	0.8395404	0.422925	0.72256	-6.069451
FGFRL1	0.0543812	6.994608	0.8393685	0.4230165	0.72256	-6.069596
MIR1267	0.0634913	7.0732243	0.8392705	0.4230687	0.72256	-6.069678
OTUB1	0.0783282	8.041658	0.8391894	0.4231119	0.72256	-6.069747
RASA3	-0.057211	6.7979519	-0.83912	0.423149	0.72256	-6.069805
HIST2H2BE	-0.084307	7.093377	-0.838968	0.4232296	0.72256	-6.069933
CCDC144NL	-0.057546	6.8963453	-0.838945	0.4232422	0.72256	-6.069952
LAPTM4B	-0.055901	6.9059943	-0.838879	0.423277	0.72256	-6.070007
PGPEP1	0.0562209	6.8101211	0.8387994	0.4233196	0.72256	-6.070075
MARS	0.0932132	10.344258	0.8387701	0.4233352	0.72256	-6.070099

EMB	-0.08418	6.9380577	-0.838279	0.423597	0.72292	-6.070513
CLN8	-0.055986	7.126448	-0.838188	0.4236451	0.72292	-6.070588
CST4	-0.062783	6.933724	-0.838027	0.4237312	0.72292	-6.070724
RHPN1-AS1	-0.064771	6.9703471	-0.837997	0.4237473	0.72292	-6.07075
RNPC3	-0.077691	7.6466971	-0.837405	0.4240629	0.72333	-6.071247
LZIC	0.0884261	8.2344228	0.8372788	0.42413	0.72333	-6.071353
PUF60	-0.082985	11.528007	-0.837063	0.4242451	0.72333	-6.071534
RGS20	-0.050989	6.7585402	-0.837009	0.424274	0.72333	-6.071579
ZNF100	0.0672747	6.8657521	0.8369221	0.4243203	0.72333	-6.071652
EFNB1	0.0736734	6.9266863	0.8367181	0.4244291	0.72333	-6.071823
TMEM117	-0.055147	7.3001634	-0.836715	0.4244306	0.72333	-6.071826
MAGEB1	-0.070184	6.915611	-0.836638	0.4244718	0.72333	-6.07189
POLM	0.0774639	7.7533319	0.8365931	0.4244958	0.72333	-6.071928
NDUFB11	0.0646262	11.556881	0.8365152	0.4245374	0.72333	-6.071994
EPB41L3	-0.063564	6.7783821	-0.836467	0.4245632	0.72333	-6.072034
ABHD15	0.053857	7.5795593	0.8364355	0.4245799	0.72333	-6.07206
ARHGEF18	-0.095272	10.876069	-0.8363	0.4246523	0.72337	-6.072174
PKHD1	0.070029	6.7900991	0.8361855	0.4247134	0.72339	-6.07227
ZNF518B	0.0588554	6.9210769	0.8358641	0.424885	0.72355	-6.07254
NDUFB2	-0.091129	12.457484	-0.835819	0.4249091	0.72355	-6.072578
GGT1	0.0531829	7.0996646	0.835647	0.4250009	0.72359	-6.072722
DNAJC11	0.0866752	8.0847697	0.8354925	0.4250834	0.72359	-6.072851
FAM71E1	0.0615482	6.9147421	0.8354634	0.425099	0.72359	-6.072876
WHAMMP3	-0.061339	6.7094935	-0.835403	0.4251314	0.72359	-6.072926
BTN3A2	-0.053409	7.8838592	-0.835252	0.4252119	0.72361	-6.073053
RTN2	0.0584485	6.8555933	0.8351301	0.4252771	0.72361	-6.073155
KBTBD2	0.0889007	9.0792441	0.8350566	0.4253163	0.72361	-6.073217
ERCC5	0.0829571	8.6627777	0.8348079	0.4254492	0.72361	-6.073425
ARHGEF9	0.0757136	7.0530653	0.8347825	0.4254628	0.72361	-6.073446
WNT7B	0.0568438	6.8301562	0.834709	0.4255021	0.72361	-6.073508
ZNF888	0.0547389	6.8999684	0.8346736	0.425521	0.72361	-6.073537
MIIP	0.1298852	8.2592529	0.8346442	0.4255367	0.72361	-6.073562
TOGARAM2	0.0534996	6.8730296	0.8344155	0.425659	0.72368	-6.073754
SBF1	-0.098608	9.9283759	-0.834379	0.4256785	0.72368	-6.073784
EGF	-0.076986	6.8695714	-0.833745	0.4260174	0.72408	-6.074314
DGCR9	0.0547685	6.8364168	0.8336496	0.4260686	0.72408	-6.074395
GNRH1	-0.089003	7.218279	-0.833638	0.4260747	0.72408	-6.074404
SLC25A4	0.0748718	10.652533	0.8335611	0.426116	0.72408	-6.074469
RPA1	0.0748822	10.381017	0.8333352	0.4262369	0.72408	-6.074658
CYGB	0.0720068	6.9540005	0.8332502	0.4262824	0.72408	-6.074729
ANKRD20A1	0.053222	6.8327815	0.8332365	0.4262897	0.72408	-6.07474
HSD11B1L	-0.067405	7.0871081	-0.833191	0.4263143	0.72408	-6.074779
P2RY10	-0.052497	8.2538573	-0.832859	0.4264919	0.7243	-6.075056

C1orf106	-0.069495	6.9378224	-0.832688	0.4265835	0.72437	-6.075199
ZNF491	0.0538017	6.8430311	0.8324926	0.426688	0.72441	-6.075362
ZBTB11-AS1	-0.073837	7.5735088	-0.832389	0.4267437	0.72441	-6.075449
EBF2	-0.056559	6.9515081	-0.832366	0.4267559	0.72441	-6.075468
YTHDF3	0.0751082	8.6164533	0.8321189	0.4268881	0.72455	-6.075674
PTBP1	0.0578353	12.948319	0.8317705	0.4270748	0.72463	-6.075965
KRT31	-0.058211	6.9216111	-0.831695	0.427115	0.72463	-6.076028
GBA2	0.0582726	7.9499001	0.8316819	0.4271223	0.72463	-6.076039
FN3K	0.0846377	6.8222584	0.8316345	0.4271477	0.72463	-6.076079
NPTX1	0.0664017	6.7986272	0.8315429	0.4271968	0.72463	-6.076155
TAF6L	-0.08947	9.3456246	-0.831478	0.4272315	0.72463	-6.076209
FMO4	0.0652807	6.9901898	0.8311967	0.4273824	0.7247	-6.076444
ARHGEF11	-0.059041	6.8302753	-0.831179	0.4273917	0.7247	-6.076459
CA8	-0.059943	6.7299498	-0.831128	0.4274192	0.7247	-6.076502
SMPD4	0.0548278	7.1155598	0.8308271	0.4275805	0.72489	-6.076753
SPINT1	0.050092	6.8145082	0.830411	0.4278037	0.7249	-6.0771
CKAP2L	0.0757464	8.695209	0.8304098	0.4278043	0.7249	-6.077101
VAT1	0.0881473	7.8140341	0.8303602	0.427831	0.7249	-6.077142
UHRF1BP1L	0.051403	7.2960123	0.8303395	0.4278421	0.7249	-6.077159
ADRB2	0.0578847	6.9291943	0.8302542	0.4278878	0.7249	-6.07723
CATSPER2P1	0.0663066	7.6365157	0.8302509	0.4278896	0.7249	-6.077233
PEX26	0.0605621	7.0152244	0.8298991	0.4280784	0.72509	-6.077526
VPS51	0.0733168	10.882539	0.8298032	0.4281299	0.72509	-6.077606
TIAL1	-0.059096	9.173694	-0.82972	0.4281745	0.72509	-6.077676
ZNF630	-0.062558	7.1485829	-0.829608	0.4282348	0.72509	-6.077769
LRP2	-0.086522	6.8943698	-0.829581	0.4282493	0.72509	-6.077792
TEAD3	0.0549197	6.8362652	0.8294174	0.428337	0.72516	-6.077928
ANKMY2	-0.080507	8.2168279	-0.82887	0.4286313	0.72557	-6.078384
ERI2	-0.062478	7.0455476	-0.828692	0.4287266	0.72565	-6.078532
TMEM105	-0.061633	6.851936	-0.828412	0.4288773	0.72582	-6.078765
ZSCAN9	-0.074064	7.2743996	-0.828282	0.4289467	0.72583	-6.078873
ARHGAP5	-0.057398	6.9636616	-0.828215	0.4289829	0.72583	-6.078929
FGF21	0.0570971	6.7956332	0.8280969	0.4290465	0.72585	-6.079027
SAMD12	0.0508143	6.9417714	0.8277818	0.4292159	0.72602	-6.079289
SLC9A5	-0.066206	6.8724686	-0.827731	0.4292434	0.72602	-6.079332
NACC2	0.0542919	6.7911506	0.8273462	0.4294501	0.72628	-6.079651
HEXIM1	-0.06256	6.9016392	-0.82711	0.4295771	0.72629	-6.079848
DHX15	-0.067479	11.731877	-0.827061	0.4296034	0.72629	-6.079888
SNORD125	0.0561536	6.9736054	0.8270152	0.4296282	0.72629	-6.079926
KDM6A	-0.077865	7.6259863	-0.826965	0.4296552	0.72629	-6.079968
EFR3A	0.0632996	8.9539174	0.8266527	0.4298233	0.72643	-6.080228
PLSCR1	0.054825	7.1247697	0.8266251	0.4298381	0.72643	-6.08025
EIF5	-0.060835	7.7746276	-0.82636	0.4299811	0.72659	-6.080471

CAMSAP2	0.0999657	8.0963838	0.8262262	0.4300529	0.72659	-6.080582
PCDH8	-0.080116	6.8515837	-0.826105	0.4301183	0.72659	-6.080683
KCNG1	0.0707567	6.9785903	0.8260099	0.4301693	0.72659	-6.080761
PPP1R3A	-0.051156	6.7891155	-0.825931	0.4302117	0.72659	-6.080827
TNFAIP6	0.0672823	6.9964756	0.8258952	0.4302311	0.72659	-6.080857
KIAA0141	0.0805078	8.7502684	0.8253398	0.4305303	0.72687	-6.081317
TES	-0.055714	7.3269748	-0.825281	0.4305618	0.72687	-6.081366
KLHL3	-0.067287	6.9379707	-0.825278	0.4305634	0.72687	-6.081368
MAZ	0.0678548	7.3241443	0.825224	0.4305927	0.72687	-6.081413
ZMYM3	0.0599056	7.3878984	0.8243761	0.4310498	0.72751	-6.082116
MROH8	0.0588293	6.9006197	0.8243382	0.4310703	0.72751	-6.082148
ZNF777	0.0831372	8.1025163	0.8242256	0.4311309	0.72752	-6.082241
RNF219	0.0887145	8.4006475	0.8240003	0.4312525	0.72765	-6.082428
SPRED2	-0.059751	6.9017922	-0.823584	0.4314772	0.72794	-6.082773
GPANK1	0.0564865	7.1161102	0.8231232	0.4317258	0.72826	-6.083154
SMAD7	-0.067526	7.1050769	-0.823006	0.4317889	0.72826	-6.083251
FIG4	0.0527102	8.2561898	0.8229268	0.4318319	0.72826	-6.083317
LOC728026	-0.058282	9.0856936	-0.822858	0.4318688	0.72826	-6.083373
FOXP4	-0.071366	7.0176246	-0.822764	0.4319195	0.72827	-6.083451
PCSK9	-0.061508	6.8350294	-0.822555	0.4320324	0.72834	-6.083624
HTRA4	0.0708703	6.910135	0.8224545	0.4320869	0.72834	-6.083707
MIR490	0.0843605	6.9329032	0.8224	0.4321164	0.72834	-6.083752
OSER1	-0.091007	10.309983	-0.822125	0.4322651	0.72844	-6.08398
UROC1	0.0567481	6.9598863	0.8221161	0.4322697	0.72844	-6.083987
TEX28	0.0695222	6.8106075	0.8219538	0.4323574	0.72845	-6.084121
TMPRSS12	0.0751449	7.1881491	0.8219124	0.4323798	0.72845	-6.084155
CDC42BPA	-0.064023	6.8879838	-0.821673	0.4325094	0.72859	-6.084354
ABHD14A	-0.061122	8.0654217	-0.821361	0.432678	0.72878	-6.084611
RNF181	0.0775149	10.262133	0.8212248	0.4327515	0.72878	-6.084724
ICA1L	-0.052431	7.6556973	-0.821088	0.4328257	0.72878	-6.084837
TXNDC16	-0.083252	7.3302328	-0.821057	0.4328424	0.72878	-6.084862
PUS7L	-0.075338	7.9377124	-0.820994	0.4328765	0.72878	-6.084915
SCML1	-0.051694	6.875493	-0.820396	0.4332	0.72917	-6.085408
TTC26	0.0705666	7.5555158	0.8203847	0.4332059	0.72917	-6.085417
FADS3	0.0632495	6.9752298	0.819943	0.433445	0.72929	-6.085782
NCK1	-0.083843	9.8446404	-0.819939	0.4334473	0.72929	-6.085785
TTC32	-0.086165	8.16926	-0.819799	0.4335227	0.72929	-6.0859
TNFRSF25	0.0652679	6.7198054	0.8197812	0.4335326	0.72929	-6.085915
TAF8	0.0539381	7.2847266	0.8197393	0.4335552	0.72929	-6.08595
ZNF707	0.073967	7.3582252	0.8195848	0.4336389	0.72929	-6.086077
RGS5	0.0618179	6.8660102	0.8194155	0.4337306	0.72929	-6.086217
SLC22A23	0.0530179	7.0977504	0.8193271	0.4337784	0.72929	-6.086289
ENPP4	-0.072047	7.7755064	-0.819287	0.4338	0.72929	-6.086322

DPPA3	0.057691	6.9791197	0.8191597	0.4338691	0.72929	-6.086427
1-Dec	0.0606471	6.831328	0.8190747	0.4339151	0.72929	-6.086497
ADAP1	0.0568243	6.9502761	0.8190349	0.4339367	0.72929	-6.08653
BEX3	0.0557161	7.3376173	0.8190009	0.4339551	0.72929	-6.086558
LOC1001307	0.096373	6.9728022	0.8188978	0.434011	0.72929	-6.086643
ASGR2	-0.107742	6.92097	-0.818799	0.4340643	0.72929	-6.086724
TTC9C	-0.090631	7.9558911	-0.818641	0.43415	0.72929	-6.086855
HCN2	-0.076573	7.1790046	-0.818611	0.4341661	0.72929	-6.086879
IMMT	0.0648556	11.12923	0.8185876	0.4341791	0.72929	-6.086899
SMIM3	0.0608143	6.9650731	0.8182121	0.4343826	0.7294	-6.087208
SNORD114-1	-0.065488	6.8922578	-0.818191	0.4343939	0.7294	-6.087225
TENM1	-0.080299	6.8370466	-0.81812	0.4344327	0.7294	-6.087284
LINC00672	-0.061133	6.8243766	-0.818069	0.43446	0.7294	-6.087326
PSMC5	0.0846829	11.2798	0.8180095	0.4344924	0.7294	-6.087375
REPIN1	-0.069168	8.78845	-0.817835	0.4345869	0.72948	-6.087518
ZNF329	0.0756179	6.8669009	0.8176939	0.4346636	0.72952	-6.087635
ASPSCR1	-0.105532	10.489907	-0.817434	0.4348045	0.72964	-6.087848
GABPAP	-0.054691	6.8801642	-0.81733	0.4348609	0.72964	-6.087934
ZNF664	0.0802492	7.5827945	0.817216	0.4349228	0.72964	-6.088028
JPH2	0.0531872	7.1321413	0.8171892	0.4349373	0.72964	-6.08805
S100P	-0.054039	6.6880976	-0.817023	0.4350273	0.72965	-6.088186
CHRNA1	0.0691521	6.9032629	0.8169976	0.4350413	0.72965	-6.088207
NRF1	-0.053271	6.9150074	-0.81691	0.4350891	0.72965	-6.08828
BNC2	0.063168	6.8883531	0.8164531	0.4353369	0.72998	-6.088655
FAM126B	0.1229546	7.7632365	0.8163126	0.4354132	0.73002	-6.088771
CNKSR3	-0.063156	6.866756	-0.816117	0.4355193	0.73011	-6.088931
SLC18A1	0.0517253	7.0479986	0.8160285	0.4355674	0.73011	-6.089004
CDV3	0.0661802	10.630973	0.8157663	0.4357098	0.73024	-6.089219
SLC20A2	0.0551764	7.3106782	0.815645	0.4357757	0.73024	-6.089319
GRB10	0.0577798	6.9778322	0.8156122	0.4357935	0.73024	-6.089346
ATE1	-0.053336	7.4163705	-0.815337	0.4359433	0.73031	-6.089572
CUZD1	0.075491	6.7243942	0.815302	0.4359621	0.73031	-6.089601
CHMP3	0.0668921	8.4649621	0.8151583	0.4360402	0.73031	-6.089719
MED8	-0.057653	7.6124419	-0.815088	0.4360784	0.73031	-6.089776
PPIP5K1	0.0560426	8.4522241	0.8150582	0.4360946	0.73031	-6.089801
LY86	0.0712455	8.634213	0.8149831	0.4361354	0.73031	-6.089862
PLN	0.0631194	7.0090031	0.8148307	0.4362183	0.73037	-6.089987
SULT1A3	-0.054698	7.3445043	-0.814528	0.4363828	0.73049	-6.090236
PTPRG	-0.053361	6.7992254	-0.814515	0.43639	0.73049	-6.090246
SCAMP2	0.0747346	7.4586858	0.8143891	0.4364584	0.73052	-6.09035
NFIA	0.0861925	7.5372564	0.8138227	0.4367665	0.7309	-6.090814
THYN1	-0.051704	9.0816055	-0.813718	0.4368234	0.7309	-6.0909
RAB33A	-0.067225	8.5906795	-0.813626	0.4368733	0.7309	-6.090975

MYOD1	-0.079247	6.8471837	-0.813605	0.4368851	0.7309	-6.090993
EMP1	-0.056811	6.803367	-0.813473	0.4369566	0.73093	-6.0911
SMIM10L2A	-0.057351	6.9071882	-0.813233	0.4370876	0.73107	-6.091297
HERC1	0.0821749	8.5139673	0.8130536	0.4371851	0.73115	-6.091444
SLC25A11	0.0806795	8.4599405	0.8129189	0.4372585	0.73119	-6.091554
SMARCB1	0.1443328	9.377283	0.8126568	0.4374012	0.73134	-6.091769
CARNMT1	-0.099157	7.7715349	-0.81247	0.4375027	0.73134	-6.091921
HSPA5	-0.087697	9.6464576	-0.812362	0.437562	0.73134	-6.092011
ARSK	0.0677666	7.1430112	0.8122317	0.4376328	0.73134	-6.092117
FCGR3A	0.0598847	6.9508432	0.81222	0.4376391	0.73134	-6.092126
TBC1D2B	0.0921242	8.9921876	0.8121941	0.4376533	0.73134	-6.092148
IL1RAP	0.0543382	6.8699723	0.8120744	0.4377185	0.73137	-6.092246
CXCR3	-0.080948	7.0390117	-0.811851	0.4378405	0.73145	-6.092429
RABIF	0.0533256	7.0771561	0.8117507	0.4378949	0.73145	-6.09251
ALOX5	0.0616334	6.9276923	0.8116254	0.4379632	0.73145	-6.092613
FANCD2	0.057846	7.8229921	0.8115829	0.4379864	0.73145	-6.092647
TCHH	0.0520406	6.913281	0.8115199	0.4380207	0.73145	-6.092699
ZNF593	-0.069181	11.65397	-0.8109	0.4383585	0.73157	-6.093205
HMGN3	0.0523624	6.8564743	0.8108942	0.4383619	0.73157	-6.09321
CD248	-0.050431	7.043975	-0.810891	0.4383636	0.73157	-6.093213
PGM2L1	0.0560843	6.8407469	0.8108792	0.4383701	0.73157	-6.093223
SLC24A4	0.052229	6.9009867	0.8107635	0.4384332	0.73157	-6.093317
SERTAD3	0.0512842	7.7105173	0.8107615	0.4384343	0.73157	-6.093319
POLR1D	-0.057125	11.152548	-0.810703	0.4384663	0.73157	-6.093367
CHUK	-0.075015	9.5377359	-0.810585	0.4385306	0.73157	-6.093463
PPARA	0.0522897	6.9325147	0.8105679	0.4385399	0.73157	-6.093477
UBE2R2	-0.081119	7.218471	-0.810021	0.4388382	0.73191	-6.093923
ANGPTL4	0.063993	7.0837867	0.8100081	0.4388454	0.73191	-6.093934
DCLRE1C	-0.076015	8.1224189	-0.809807	0.4389551	0.73198	-6.094098
CCDC169	-0.060796	6.923862	-0.809673	0.4390282	0.73198	-6.094207
CAV2	-0.051548	6.8520813	-0.809606	0.4390649	0.73198	-6.094262
LMBRD2	0.060523	6.8570737	0.8095601	0.43909	0.73198	-6.0943
FKBPL	0.0716509	7.3207173	0.8093365	0.4392121	0.73203	-6.094482
KRT76	-0.065159	6.7922023	-0.809322	0.4392202	0.73203	-6.094494
FBXO42	0.0661593	7.7115425	0.809152	0.4393129	0.73205	-6.094633
PPP1R42	-0.075387	6.9082992	-0.809116	0.4393327	0.73205	-6.094662
CDCP2	0.0530752	6.7949892	0.8087976	0.4395065	0.73226	-6.094922
LRRC63	-0.055633	6.8545271	-0.808458	0.4396918	0.73242	-6.095198
SNORA70B	-0.054014	7.157465	-0.808438	0.4397033	0.73242	-6.095215
TSPAN15	0.0656886	7.1351521	0.8081617	0.4398541	0.73243	-6.09544
MASP2	0.0669087	6.9480207	0.8081037	0.4398858	0.73243	-6.095487
IPP	0.0673387	7.5197651	0.8080227	0.4399301	0.73243	-6.095553
RANBP3L	-0.087897	6.8645615	-0.807962	0.4399633	0.73243	-6.095602

SLC44A4	0.0577714	6.8682329	0.807924	0.439984	0.73243	-6.095633
PHOX2B	0.0547949	6.807093	0.8078737	0.4400115	0.73243	-6.095674
CIAO1	0.0619044	9.5475041	0.8074661	0.4402345	0.73266	-6.096006
IMPDH1	0.0677641	8.2508201	0.807437	0.4402504	0.73266	-6.09603
DPP10	-0.057548	6.8603327	-0.806917	0.4405347	0.73303	-6.096453
EXD2	-0.08227	7.3696935	-0.806804	0.440597	0.73303	-6.096545
CD9	0.0549086	7.1019236	0.8067621	0.4406197	0.73303	-6.096579
MAP3K12	-0.085609	7.197315	-0.806429	0.4408023	0.73318	-6.09685
ASRGL1	-0.056484	6.7852371	-0.806415	0.4408099	0.73318	-6.096862
CYP19A1	0.0527465	6.862716	0.8063184	0.4408626	0.73318	-6.09694
STAG1	-0.103414	7.9908518	-0.80621	0.440922	0.7332	-6.097028
PPT2	0.0534377	6.9286973	0.8060397	0.4410152	0.73322	-6.097167
FBXL6	0.061847	8.079348	0.8058911	0.4410966	0.73322	-6.097287
RPP25L	0.0596565	8.3913193	0.8058295	0.4411303	0.73322	-6.097337
NRBP1	-0.062378	7.3447235	-0.805791	0.4411515	0.73322	-6.097369
APOC1	0.0820726	6.9738098	0.8057291	0.4411854	0.73322	-6.097419
WDR35	-0.060804	7.3641917	-0.805526	0.4412967	0.73331	-6.097584
FUOM	-0.057122	6.7218041	-0.805424	0.4413526	0.73331	-6.097667
MET	0.0798097	8.1292521	0.8053461	0.4413952	0.73331	-6.09773
LOC100130(	0.071895	6.9735156	0.8049448	0.4416151	0.73351	-6.098056
HIST1H2BK	0.0580017	9.6256638	0.8049426	0.4416163	0.73351	-6.098058
IFIT1	0.0707339	6.8655342	0.8048257	0.4416804	0.73354	-6.098153
SRSF10	0.0533458	8.3394345	0.8045445	0.4418346	0.73359	-6.098381
TMCO4	0.0592341	6.7251052	0.8045269	0.4418443	0.73359	-6.098395
C1orf116	0.1036286	6.9020428	0.8044912	0.4418639	0.73359	-6.098424
GPHN	0.0518434	6.7706492	0.8039467	0.4421625	0.734	-6.098866
MRPL37	-0.110427	12.004341	-0.803591	0.4423579	0.73417	-6.099155
PLGRKT	-0.062442	9.9115796	-0.803562	0.4423738	0.73417	-6.099178
STIL	0.0805808	9.4418504	0.8032347	0.4425532	0.73417	-6.099443
KIF1C	-0.066767	7.5992866	-0.803232	0.4425545	0.73417	-6.099445
NRP1	-0.050512	6.9019041	-0.803143	0.4426036	0.73417	-6.099517
RNPEP	-0.060441	9.0549793	-0.803068	0.4426448	0.73417	-6.099578
CCL20	-0.053716	6.827216	-0.803025	0.4426681	0.73417	-6.099613
ALG2	-0.057645	7.1510018	-0.802987	0.442689	0.73417	-6.099644
TMSB4X	-0.05363	11.718673	-0.802937	0.4427165	0.73417	-6.099684
RBM7	-0.096241	8.0161117	-0.802771	0.4428079	0.7342	-6.099819
CEP85	-0.067357	9.3037081	-0.802687	0.442854	0.7342	-6.099887
SLC26A10	-0.051736	6.9684554	-0.802601	0.442901	0.7342	-6.099956
NID1	0.0567562	6.8638177	0.8024705	0.4429729	0.7342	-6.100062
TLN2	0.0766709	7.3436212	0.8024477	0.4429854	0.7342	-6.100081
XAGE2	0.0595254	6.8342378	0.8021591	0.4431439	0.73435	-6.100314
FIGNL2	-0.053342	6.9842263	-0.802103	0.4431746	0.73435	-6.100359
TRIM16L	-0.076478	7.0850107	-0.801993	0.4432351	0.73436	-6.100449

C6orf1	0.0529923	7.1433361	0.8017496	0.443369	0.73447	-6.100646
RNF32	-0.056172	6.8638391	-0.801617	0.4434416	0.73447	-6.100753
ENOX2	0.0616688	7.2331272	0.8015997	0.4434514	0.73447	-6.100767
CLUAP1	0.053224	8.8271615	0.8014662	0.4435248	0.73451	-6.100875
SUPT20H	-0.053527	7.3283715	-0.801102	0.4437253	0.73471	-6.10117
PCDH9	-0.096905	7.1937696	-0.80107	0.4437429	0.73471	-6.101196
PTPRF	0.0503498	6.8060867	0.8006558	0.4439705	0.735	-6.10153
EIF2AK4	-0.114096	8.3396188	-0.800406	0.4441081	0.73514	-6.101732
ZNF384	0.0644684	8.0345477	0.7998752	0.4444001	0.73516	-6.102161
PIK3R6	-0.065156	6.9752802	-0.799871	0.4444024	0.73516	-6.102164
RAD51B	0.054255	7.3546118	0.7997511	0.4444684	0.73516	-6.102261
PGR	0.0608217	6.7694795	0.7996667	0.4445149	0.73516	-6.102329
KRT23	0.0551222	7.0317032	0.7995063	0.4446032	0.73516	-6.102459
CHST12	0.0765653	8.3815069	0.7993808	0.4446723	0.73516	-6.10256
ASAP1-IT1	0.0678437	6.9416976	0.7993478	0.4446904	0.73516	-6.102587
TM2D2	-0.068911	7.1326631	-0.799165	0.4447913	0.73516	-6.102734
NEURL1	-0.056879	6.7313783	-0.799124	0.4448139	0.73516	-6.102767
PLGLB1	-0.059448	6.8276445	-0.799117	0.4448176	0.73516	-6.102773
ACADSB	-0.065203	7.0928657	-0.799092	0.4448315	0.73516	-6.102793
MIR574	0.086309	7.8757932	0.7989767	0.4448948	0.73516	-6.102886
RASL11A	0.0808324	7.1639042	0.7989564	0.444906	0.73516	-6.102902
SURF1	0.0713372	9.0883338	0.7989412	0.4449144	0.73516	-6.102915
GRTP1	0.058134	6.8850217	0.798931	0.44492	0.73516	-6.102923
ABHD16A	0.073799	8.1008363	0.7989272	0.4449221	0.73516	-6.102926
SERINC2	0.0554165	6.8193661	0.798726	0.445033	0.73526	-6.103088
TMEM200A	0.0492471	6.7693915	0.7986	0.4451024	0.73529	-6.10319
PTPN18	0.0678733	6.9432332	0.7984445	0.4451881	0.73535	-6.103315
RXRG	0.0819832	6.9958371	0.7982403	0.4453007	0.73544	-6.10348
GIT1	0.0695902	7.5680889	0.7980399	0.4454111	0.73544	-6.103641
DNTTIP2	-0.087354	6.9530311	-0.797955	0.4454579	0.73544	-6.10371
TCTEX1D1	-0.057481	6.7481342	-0.79793	0.4454718	0.73544	-6.10373
POMGNT1	0.0688674	9.531372	0.7978794	0.4454996	0.73544	-6.103771
TDRD10	-0.053393	6.8379775	-0.797725	0.4455847	0.7355	-6.103895
LCMT1	0.0582698	9.5728204	0.7975414	0.445686	0.73559	-6.104043
TRMT10A	-0.062972	7.7472918	-0.796663	0.4461707	0.73612	-6.10475
UBE3A	0.0657835	9.1460397	0.7965407	0.4462382	0.73612	-6.104848
PROCR	-0.074122	7.1170419	-0.796492	0.4462652	0.73612	-6.104888
TANGO2	0.0559141	7.7767867	0.7964712	0.4462766	0.73612	-6.104904
SMOX	-0.056608	6.9355464	-0.796434	0.4462973	0.73612	-6.104935
ACACA	-0.059179	10.186776	-0.796349	0.4463439	0.73612	-6.105003
EXOC3L4	-0.061926	6.8540522	-0.796314	0.4463633	0.73612	-6.105031
MFAP1	0.092293	9.3890812	0.7959299	0.4465755	0.73639	-6.10534
RAB38	-0.054025	6.9132741	-0.795559	0.4467806	0.73664	-6.105638

RCC1	0.1196317	8.3926918	0.7953377	0.4469026	0.73676	-6.105816
NOTCH2	0.0570348	7.2178992	0.7952118	0.4469722	0.73679	-6.105917
ITGAV	0.0559849	7.7534744	0.7948301	0.4471832	0.73706	-6.106224
RPL17	-0.060851	13.317409	-0.794476	0.4473788	0.73729	-6.106508
ARPIN	-0.070482	6.8078038	-0.794386	0.4474285	0.73729	-6.10658
GNA15	0.0574475	7.0492731	0.7938903	0.4477029	0.73766	-6.106978
FLYWCH2	0.0624364	7.7385789	0.7935799	0.4478746	0.73786	-6.107227
SAMD9L	0.0556952	6.8787957	0.7933749	0.4479881	0.73797	-6.107391
GZMA	-0.049895	6.7951464	-0.793279	0.4480409	0.73797	-6.107468
OSM	0.0714734	7.1740255	0.7931685	0.4481023	0.73799	-6.107557
PLEKHA4	0.066724	6.8244507	0.7930008	0.4481952	0.73806	-6.107691
ESCO2	-0.056293	6.8271878	-0.792855	0.4482759	0.73811	-6.107808
P2RY13	0.0807038	6.9383342	0.7925839	0.448426	0.73827	-6.108025
TFAP2A	-0.049668	6.8250564	-0.792468	0.4484904	0.73829	-6.108118
SNORA29	-0.065177	6.9178353	-0.792373	0.4485426	0.7383	-6.108194
WRAP53	-0.091433	8.2547777	-0.792153	0.4486648	0.73841	-6.10837
HPS6	0.0684156	10.432585	0.7917275	0.4489005	0.73872	-6.108711
LTBP3	0.0862886	7.0962696	0.7916255	0.448957	0.73873	-6.108793
LHX1	-0.061772	6.7985534	-0.791434	0.4490633	0.73882	-6.108946
LRRC71	0.0621681	7.0452302	0.7913028	0.4491359	0.73886	-6.109051
RPL23A	-0.082202	10.514849	-0.791031	0.4492868	0.73895	-6.109268
SPIDR	-0.098991	9.1923205	-0.791013	0.4492964	0.73895	-6.109282
GRID2	0.0684626	6.8469908	0.7909208	0.4493477	0.73895	-6.109356
ZNF615	-0.050279	6.9311509	-0.790836	0.4493946	0.73895	-6.109424
TRIM45	0.0780619	6.9535638	0.7907079	0.4494658	0.73898	-6.109527
BMP3	0.0600926	6.8174772	0.7904566	0.4496052	0.739	-6.109727
6-Mar	-0.063197	7.9965973	-0.790454	0.4496068	0.739	-6.10973
MAF	-0.051744	6.8167242	-0.790421	0.449625	0.739	-6.109756
RPGR	-0.06357	7.3539268	-0.790095	0.449806	0.73914	-6.110017
SLC26A2	-0.086539	7.0304079	-0.790058	0.4498265	0.73914	-6.110046
VGF	0.0618314	7.785698	0.7899922	0.4498629	0.73914	-6.110098
CLASRP	-0.082939	7.6319725	-0.789795	0.4499726	0.73923	-6.110256
PAN2	0.0567783	7.7909297	0.7896303	0.4500638	0.7393	-6.110388
MIR630	-0.077846	6.9946502	-0.789452	0.4501627	0.73931	-6.11053
NPR1	-0.057347	7.0285793	-0.789409	0.4501868	0.73931	-6.110564
BBS7	-0.074006	7.6123863	-0.789349	0.4502198	0.73931	-6.110612
DENND3	-0.060567	6.8577688	-0.789198	0.4503037	0.73936	-6.110732
HCRTR2	-0.049133	6.7990914	-0.788892	0.450474	0.73956	-6.110977
PXYLP1	0.0506693	6.8030497	0.7884422	0.4507236	0.73985	-6.111336
KRTAP8-1	0.0623721	6.7285181	0.7883099	0.4507972	0.73985	-6.111441
TACO1	-0.072463	9.8617583	-0.788294	0.4508063	0.73985	-6.111454
FKBP1AP1	0.0673933	7.0428459	0.7881911	0.4508632	0.73986	-6.111536
HERC6	0.063425	6.8160373	0.7880976	0.4509152	0.73987	-6.11161

CD24	-0.048	6.7750605	-0.787813	0.4510737	0.74004	-6.111838
F8	0.062893	6.9127004	0.7876562	0.4511606	0.7401	-6.111962
EPHA1	0.0693846	6.8560366	0.7874589	0.4512703	0.7402	-6.112119
OST4	0.05534	12.127151	0.7873486	0.4513317	0.74022	-6.112207
CANX	0.0711032	9.2315773	0.7871778	0.4514267	0.74029	-6.112343
CPPED1	-0.052564	6.8054063	-0.786803	0.451635	0.74055	-6.112641
CNTRL	0.080381	8.3035718	0.7866531	0.4517186	0.7406	-6.112761
ZNF280C	0.083306	7.9203385	0.7863612	0.4518811	0.74074	-6.112993
GOPC	-0.085841	8.0086794	-0.786293	0.4519192	0.74074	-6.113048
AHSA1	-0.064937	10.454369	-0.786212	0.451964	0.74074	-6.113112
UBE4A	-0.102618	8.9073899	-0.786136	0.4520064	0.74074	-6.113172
FSD1	0.051447	7.3519645	0.7858251	0.4521796	0.7408	-6.11342
PKIG	-0.05381	7.6730319	-0.785819	0.4521832	0.7408	-6.113425
PSCA	0.0551783	6.8770433	0.7856198	0.4522939	0.7408	-6.113583
TXLNG	-0.057498	7.943473	-0.785547	0.4523347	0.7408	-6.113641
CPSF2	0.0910366	8.4593884	0.7855294	0.4523443	0.7408	-6.113655
TRIM29	0.0558724	6.918419	0.7854653	0.45238	0.7408	-6.113706
TCF12	0.058225	7.9870392	0.785424	0.452403	0.7408	-6.113739
MBNL1-AS1	0.0715487	6.8119736	0.7853407	0.4524494	0.7408	-6.113805
GBA3	0.0565865	6.8625384	0.7849187	0.4526845	0.7411	-6.11414
ZNF432	-0.079653	7.0956703	-0.784031	0.4531794	0.74183	-6.114845
TGIF2	-0.071419	9.8606108	-0.783829	0.4532919	0.74188	-6.115005
FBXL20	0.0684789	7.6907685	0.7837978	0.4533095	0.74188	-6.11503
GPRC5B	0.0689771	6.9664253	0.7836761	0.4533774	0.74188	-6.115126
SIGLEC14	0.0540319	6.9211051	0.7835762	0.4534332	0.74188	-6.115206
ABCA5	0.0653406	6.8208278	0.7835231	0.4534628	0.74188	-6.115248
MRS2P2	-0.063662	6.9532344	-0.78339	0.4535369	0.7419	-6.115353
GABARAPL1	0.0714872	6.9652743	0.7833212	0.4535754	0.7419	-6.115408
DTNBP1	0.0583676	7.6446757	0.7828096	0.453861	0.74228	-6.115814
TIMM10B	0.0705567	7.944585	0.7826486	0.4539509	0.74228	-6.115941
MLLT1	-0.049907	6.8770798	-0.78257	0.4539946	0.74228	-6.116003
COIL	0.0761729	9.1017408	0.7825398	0.4540116	0.74228	-6.116027
EXOC3L1	-0.073092	7.0225691	-0.782192	0.4542058	0.74251	-6.116303
EIF2B4	0.0579918	10.513699	0.7820955	0.4542598	0.74252	-6.116379
WDR5	0.056997	7.884502	0.7819454	0.4543436	0.74257	-6.116498
MEIS3P1	0.0496909	6.8755663	0.7817782	0.454437	0.74263	-6.11663
PIGG	0.0681203	7.4951178	0.781699	0.4544813	0.74263	-6.116693
RPL18A	0.0490859	14.431891	0.7814314	0.4546308	0.74279	-6.116905
SARDH	0.0573811	6.7793608	0.7811781	0.4547724	0.74294	-6.117105
TMED3	-0.083101	11.757596	-0.781029	0.4548558	0.74299	-6.117223
PLEKHA1	-0.051936	6.7998358	-0.780358	0.4552308	0.74352	-6.117754
APP	0.0495863	6.8960366	0.7798287	0.4555272	0.74392	-6.118172
C16orf62	-0.076855	7.152958	-0.779707	0.4555954	0.74395	-6.118268

HOXB1	-0.070968	6.9395607	-0.779162	0.4559002	0.74429	-6.118698
LDAH	0.0567832	8.4264696	0.7791514	0.4559063	0.74429	-6.118707
ARL2BP	-0.068329	10.21111	-0.778712	0.4561526	0.74461	-6.119054
FAM86B3P	-0.054422	7.1236783	-0.778153	0.4564654	0.74498	-6.119494
MYO1H	0.048337	6.8759187	0.778121	0.4564835	0.74498	-6.11952
COLGALT2	-0.05444	6.9008988	-0.777945	0.4565821	0.74503	-6.119659
ZNF780B	-0.061319	6.8968661	-0.777889	0.4566138	0.74503	-6.119703
IFNA2	0.0529345	6.8314937	0.7775759	0.456789	0.74523	-6.119949
PLP2	0.0493834	7.4285471	0.7774335	0.4568689	0.74523	-6.120062
CETP	-0.057021	7.3815874	-0.7774	0.4568876	0.74523	-6.120088
ZNF271P	-0.058367	8.0536071	-0.777214	0.456992	0.74531	-6.120235
BBS12	0.0827987	7.0755752	0.7770657	0.4570752	0.74536	-6.120351
SLC1A1	-0.074222	7.8705898	-0.77679	0.45723	0.74553	-6.120569
RNFT2	0.0645455	8.2874901	0.7766961	0.4572825	0.74554	-6.120642
FNBP1	-0.091497	12.030681	-0.77652	0.4573815	0.74561	-6.120781
STMN1	-0.056034	8.8506659	-0.776353	0.4574751	0.74568	-6.120912
TIMELESS	0.0669429	10.087473	0.775982	0.4576832	0.74594	-6.121204
CCDC57	0.0652157	6.920185	0.7756867	0.457849	0.74613	-6.121436
MTSS1L	-0.0706	6.841796	-0.775484	0.4579631	0.74623	-6.121596
JAG2	0.0531618	6.8936857	0.7751975	0.4581238	0.74641	-6.121821
NBEAL2	0.0929736	8.1828104	0.7749267	0.4582759	0.74657	-6.122034
MYO19	0.0502175	7.2720977	0.7747442	0.4583784	0.74665	-6.122177
STEAP1	0.0611757	7.0057863	0.7746596	0.458426	0.74665	-6.122243
HCN3	-0.06626	7.5568062	-0.774393	0.458576	0.74681	-6.122453
KMT5C	0.0816245	7.1404841	0.7737007	0.4589651	0.7472	-6.122996
PLXDC2	0.0507781	6.7527607	0.7736722	0.4589811	0.7472	-6.123018
BCKDHA	-0.106056	9.24898	-0.773513	0.4590706	0.7472	-6.123143
CHN2	-0.047419	6.7486174	-0.773484	0.4590869	0.7472	-6.123166
MIR580	-0.049299	6.732565	-0.773481	0.4590884	0.7472	-6.123168
GPN2	-0.051767	10.239762	-0.773422	0.4591221	0.7472	-6.123215
C15orf54	0.0570938	6.8974695	0.7730559	0.4593278	0.74725	-6.123502
ULK4	-0.058999	7.0942316	-0.773049	0.4593317	0.74725	-6.123507
HSPG2	0.0518105	6.8205828	0.7730283	0.4593433	0.74725	-6.123523
ELMOD3	0.071611	7.3638305	0.773008	0.4593548	0.74725	-6.123539
ATP2C1	-0.057268	7.9972501	-0.772677	0.4595411	0.74746	-6.123799
ERI3	0.0584359	8.3527279	0.7723706	0.4597135	0.74766	-6.124039
LSMEM1	-0.067729	6.9150018	-0.772113	0.4598587	0.74776	-6.124241
STX1A	-0.085347	7.2468596	-0.772051	0.4598934	0.74776	-6.124289
8-Sep	-0.061785	7.0244886	-0.771993	0.459926	0.74776	-6.124334
MMP28	0.0593499	6.9101465	0.7718803	0.4599896	0.74778	-6.124423
KDM4D	0.0656514	7.1472557	0.7717328	0.4600727	0.74783	-6.124538
ZSCAN2	0.0516086	7.5229745	0.7716039	0.4601453	0.74786	-6.124639
IL18RAP	-0.055049	6.8105825	-0.771429	0.460244	0.74794	-6.124776

TWSG1	0.0712444	8.5173814	0.771256	0.4603413	0.74802	-6.124911
TET1	0.049068	6.8446391	0.7707994	0.4605987	0.74835	-6.125268
TMEM62	-0.049965	9.0375924	-0.770625	0.4606972	0.74843	-6.125405
LOC400710	-0.067096	6.9789219	-0.769951	0.4610773	0.74896	-6.125932
SLC2A5	-0.090537	12.266812	-0.769864	0.461126	0.74896	-6.125999
TUBG1	0.0619957	9.3180453	0.7694367	0.4613673	0.74925	-6.126333
BANP	0.0465744	8.7820207	0.7693659	0.4614073	0.74925	-6.126388
HSPA6	-0.067573	7.2231848	-0.768593	0.4618437	0.74986	-6.126992
GTPBP8	-0.053563	8.3753786	-0.768456	0.4619211	0.74986	-6.127099
MEIG1	0.057151	7.0342783	0.7684198	0.4619414	0.74986	-6.127127
TRIM27	-0.057492	8.1514046	-0.768332	0.4619912	0.74986	-6.127195
ACTR3	-0.107186	10.610587	-0.768178	0.4620778	0.74989	-6.127315
COL9A1	-0.051756	6.8943144	-0.767974	0.4621932	0.74989	-6.127474
SERINC5	0.0525414	6.9449439	0.7679464	0.4622088	0.74989	-6.127496
DENND1B	0.0872917	8.1860466	0.7677422	0.4623242	0.74989	-6.127655
C17orf75	0.0624967	7.0467063	0.7676971	0.4623497	0.74989	-6.12769
AMIGO1	0.0512998	6.8999356	0.7676705	0.4623647	0.74989	-6.127711
IGFBPL1	-0.057722	6.9794372	-0.767667	0.4623668	0.74989	-6.127713
PSMB2	0.0659702	11.783125	0.7675615	0.4624264	0.7499	-6.127796
PTH2	-0.048389	6.7923119	-0.767396	0.4625199	0.74997	-6.127925
PBXIP1	0.0545608	6.9587899	0.7671021	0.4626861	0.75007	-6.128153
DMTN	0.0492516	6.986074	0.7670809	0.462698	0.75007	-6.12817
NEDD1	0.0596814	7.4023124	0.7668819	0.4628105	0.75007	-6.128325
KCNA2	-0.06133	6.821461	-0.766808	0.4628525	0.75007	-6.128383
ZNF460	0.0556093	6.9589922	0.7667312	0.4628958	0.75007	-6.128442
JDP2	-0.069952	7.0605267	-0.766628	0.4629541	0.75007	-6.128522
PILRB	-0.070168	7.3780515	-0.766615	0.4629614	0.75007	-6.128533
ITGAM	-0.056359	6.8674426	-0.766546	0.4630004	0.75007	-6.128586
GAA	-0.057215	6.9576624	-0.766471	0.4630428	0.75007	-6.128644
SMARCAD1	-0.07748	8.1241122	-0.766229	0.4631796	0.75012	-6.128833
CCR1	0.0542851	6.8467091	0.766227	0.463181	0.75012	-6.128834
CTSC	-0.048469	8.7590068	-0.765438	0.4636273	0.75076	-6.129448
TMEM97	-0.060569	9.9048526	-0.765305	0.4637027	0.75077	-6.129551
KIF25-AS1	-0.108248	7.002237	-0.765255	0.4637313	0.75077	-6.12959
STXBP6	-0.048746	6.8151808	-0.765111	0.463813	0.75081	-6.129702
OR10H4	-0.054282	6.849105	-0.765029	0.4638594	0.75081	-6.129766
GID4	0.0623168	7.4397205	0.7645874	0.4641092	0.75112	-6.130109
SP140L	0.0530312	6.8970896	0.7644111	0.4642092	0.75112	-6.130246
NT5E	0.0614764	6.7166183	0.7642393	0.4643065	0.75112	-6.130379
TNFRSF12A	0.0541299	7.0429615	0.7640422	0.4644182	0.75112	-6.130532
UBAC1	0.0653817	10.640959	0.7640046	0.4644395	0.75112	-6.130561
CSNK1E	-0.060385	9.0398947	-0.763934	0.4644796	0.75112	-6.130616
SOSTDC1	0.0637545	6.8958835	0.7639064	0.4644952	0.75112	-6.130637

AIRE	-0.185168	11.654863	-0.763824	0.4645421	0.75112	-6.130701
CES3	0.0528894	6.858216	0.7637847	0.4645642	0.75112	-6.130732
PDE5A	-0.060331	7.0549074	-0.763782	0.4645658	0.75112	-6.130734
CDHR1	0.0485452	6.793255	0.7634341	0.4647629	0.75129	-6.131004
RPL23AP74	-0.064307	13.859632	-0.763415	0.4647736	0.75129	-6.131018
FAM98A	-0.100568	10.950836	-0.763254	0.4648651	0.75135	-6.131143
ZNF592	0.0507239	6.9224529	0.7631376	0.4649311	0.75138	-6.131233
NRP2	-0.063238	7.1870248	-0.762847	0.4650957	0.75156	-6.131458
GGT3P	-0.052642	6.9511452	-0.762711	0.4651729	0.7516	-6.131564
PKLR	0.0561912	6.9369484	0.7623947	0.4653526	0.75181	-6.131809
BBS10	0.0827069	7.4391643	0.7621304	0.4655026	0.75197	-6.132014
SNORD55	-0.063205	7.5030056	-0.762003	0.4655748	0.75197	-6.132112
RCAN1	0.0613092	7.1346929	0.7619091	0.4656282	0.75197	-6.132185
EXO1	0.0581962	7.7895374	0.7618559	0.4656585	0.75197	-6.132226
NFE2L2	0.0824784	9.2362019	0.7616044	0.4658013	0.7521	-6.132421
FAM122B	0.0631194	8.7024843	0.7615348	0.4658408	0.7521	-6.132475
SLC25A10	0.1162498	8.4769679	0.7614015	0.4659165	0.75213	-6.132578
PREP	0.0812884	8.6573318	0.7613123	0.4659672	0.75213	-6.132647
GYPC	-0.051598	6.7355617	-0.761094	0.4660914	0.75218	-6.132816
HCG4	0.0519537	8.6655191	0.7610837	0.466097	0.75218	-6.132824
EPAS1	-0.057808	6.7248163	-0.760793	0.466262	0.75236	-6.133048
KITLG	0.0488281	6.795767	0.7606885	0.4663215	0.75237	-6.133129
DMAP1	-0.07575	9.1300132	-0.760352	0.4665126	0.75238	-6.133389
HTATIP2	-0.09098	9.3035623	-0.760277	0.4665554	0.75238	-6.133447
TJP3	0.0640281	7.0133503	0.7602186	0.4665887	0.75238	-6.133492
CWF19L2	-0.077775	8.1566549	-0.760148	0.466629	0.75238	-6.133547
DPCD	0.0668063	9.0114312	0.7600748	0.4666704	0.75238	-6.133603
MAPT	-0.065079	6.7052615	-0.760053	0.466683	0.75238	-6.13362
PROSER3	0.0541228	7.0143201	0.7600411	0.4666896	0.75238	-6.133629
AP1S3	-0.065793	7.0226172	-0.759849	0.4667987	0.75248	-6.133778
LINC01561	-0.049115	6.9106999	-0.759361	0.4670763	0.75284	-6.134154
INTU	-0.047592	6.7950293	-0.759271	0.4671278	0.75284	-6.134224
SRRM1	0.0972635	11.639517	0.7590562	0.4672498	0.75295	-6.13439
ZNF10	0.0670673	7.0036165	0.7588135	0.4673879	0.75298	-6.134577
REPS1	0.0642019	7.3785269	0.7587798	0.4674071	0.75298	-6.134603
DEFB106B	-0.047338	6.9064445	-0.758761	0.4674177	0.75298	-6.134617
ZSCAN12P1	0.0665348	7.2888318	0.7586198	0.4674981	0.75298	-6.134726
MYBPC3	0.0494699	6.9324576	0.7585743	0.467524	0.75298	-6.134761
RBAKDN	0.051029	7.0181163	0.7583437	0.4676553	0.75311	-6.134939
ZNF575	-0.051919	6.829082	-0.758143	0.4677693	0.75314	-6.135093
LYZL6	-0.056366	6.9820893	-0.75808	0.4678055	0.75314	-6.135142
ENPP5	0.0573427	7.0854176	0.7580357	0.4678307	0.75314	-6.135176
LRPAP1	0.0780024	8.7175311	0.7574619	0.4681576	0.75357	-6.135619

LRWD1	-0.048741	9.6404062	-0.757386	0.4682007	0.75357	-6.135677
F11R	-0.065671	7.4381241	-0.757198	0.4683078	0.75366	-6.135821
MS4A2	-0.055309	6.8628651	-0.75658	0.4686601	0.75407	-6.136297
IGSF8	0.075051	7.0756935	0.7564797	0.4687174	0.75407	-6.136374
RFX4	-0.048783	7.1964895	-0.756476	0.4687197	0.75407	-6.136378
MYLK	0.0715914	7.0292686	0.7562729	0.4688353	0.75418	-6.136533
ZRSR2	-0.069832	7.7691675	-0.756105	0.4689311	0.75425	-6.136663
MGP	-0.060776	6.9073357	-0.755517	0.4692667	0.7547	-6.137115
STK3	-0.073926	7.9069892	-0.755208	0.4694426	0.75482	-6.137352
ACOT11	0.0460596	6.7900858	0.7552083	0.4694427	0.75482	-6.137352
MB21D1	-0.055538	6.7600639	-0.755061	0.4695268	0.75487	-6.137465
SNORD114-1	-0.086458	7.1955437	-0.754728	0.4697167	0.75505	-6.13772
LINC01341	0.0675532	6.9041651	0.7546189	0.4697792	0.75505	-6.137804
AHR	0.0688762	8.8805127	0.7544739	0.469862	0.75505	-6.137916
DNAAF3	-0.060365	8.0562663	-0.754373	0.4699197	0.75505	-6.137993
SLC6A1	0.0556468	6.856562	0.7543604	0.4699268	0.75505	-6.138003
RPL36AL	-0.051484	12.8073	-0.754321	0.4699494	0.75505	-6.138033
PTK6	-0.060512	6.8979624	-0.754217	0.4700088	0.75507	-6.138113
ANP32B	0.0542991	13.256519	0.7541183	0.4700651	0.75507	-6.138188
ZNF614	0.0624171	7.8950727	0.7540199	0.4701213	0.75508	-6.138264
PSD4	0.0720155	8.2468101	0.7530033	0.4707023	0.75585	-6.139043
PREB	0.0634959	8.6987028	0.7530033	0.4707023	0.75585	-6.139043
PRR4	0.0825287	7.4027315	0.7528405	0.4707954	0.75585	-6.139168
ARPC1A	0.1019866	11.283149	0.7528193	0.4708075	0.75585	-6.139184
RFPL1	-0.066314	7.0816964	-0.752226	0.4711471	0.75618	-6.139639
UCHL1	0.0915119	12.20901	0.7521901	0.4711674	0.75618	-6.139666
CDKN2A	-0.07992	8.9393039	-0.752183	0.4711713	0.75618	-6.139671
TEKT2	-0.05544	6.8859924	-0.751815	0.4713821	0.7564	-6.139953
TKTL1	0.0475441	7.0126774	0.7517022	0.4714466	0.7564	-6.140039
SEC61B	-0.081785	12.548308	-0.751676	0.4714617	0.7564	-6.140059
ITGB5	-0.04987	6.8626688	-0.75148	0.4715737	0.75642	-6.140209
ZSCAN5A	-0.078559	8.3426882	-0.751479	0.4715745	0.75642	-6.14021
MON1B	0.0702589	7.6192455	0.7511032	0.4717895	0.75656	-6.140497
SIK3	-0.058649	9.3929576	-0.750753	0.4719904	0.75656	-6.140765
MICAL1	0.0693359	7.7959192	0.7507354	0.4720002	0.75656	-6.140778
CHPT1	0.0475926	6.8492063	0.7507327	0.4720017	0.75656	-6.14078
PRKACG	0.0550517	6.8973165	0.7507088	0.4720154	0.75656	-6.140799
TLR4	-0.050561	6.7045547	-0.750701	0.4720197	0.75656	-6.140804
MMP16	-0.053713	6.7705249	-0.750692	0.4720249	0.75656	-6.140811
MTERF4	-0.058853	7.0712727	-0.750553	0.4721049	0.7566	-6.140918
LOC1001324	-0.086161	8.2070316	-0.750458	0.4721594	0.75661	-6.140991
CAMTA2	0.0486029	6.9093679	0.7503209	0.4722376	0.75665	-6.141095
KCNA6	-0.050766	6.9375842	-0.750173	0.4723226	0.7567	-6.141208

CLPB	-0.069742	6.9641594	-0.749944	0.4724534	0.75678	-6.141382
ERCC6L2	0.0549698	7.2498077	0.7498773	0.4724918	0.75678	-6.141434
LINC01107	0.0511088	6.8646795	0.7498118	0.4725294	0.75678	-6.141484
TPTEP1	0.0544078	6.8326067	0.7495519	0.4726784	0.75694	-6.141682
EPS8L1	-0.050119	6.8394969	-0.74922	0.4728688	0.75716	-6.141935
DCDC1	0.0566508	6.7818027	0.7490699	0.4729548	0.75722	-6.14205
RBM28	0.0572555	8.3366531	0.7489372	0.4730309	0.75725	-6.142151
LMF1	-0.074078	6.8313048	-0.748479	0.4732939	0.7575	-6.1425
CSTA	0.0479437	6.745964	0.7483815	0.4733497	0.7575	-6.142574
TVP23B	-0.085877	8.6021168	-0.748261	0.4734186	0.7575	-6.142666
AKAP2	0.0646458	6.9676427	0.7482253	0.4734393	0.7575	-6.142693
PTH1R	-0.062198	6.8274995	-0.748141	0.4734875	0.7575	-6.142757
ANLN	-0.057019	8.2072863	-0.748088	0.4735184	0.7575	-6.142798
ADCY3	-0.058488	10.969997	-0.748041	0.4735452	0.7575	-6.142834
LLGL1	0.0536563	8.1569142	0.7477324	0.4737222	0.75767	-6.143069
GAPT	0.0546901	6.9548683	0.7476682	0.4737591	0.75767	-6.143118
UMODL1-AS	0.0641902	6.992403	0.7473175	0.4739605	0.75791	-6.143385
RNF130	0.047429	6.8921469	0.7472265	0.4740127	0.75791	-6.143454
DNAJA1	-0.096997	12.453581	-0.746892	0.4742049	0.75814	-6.143708
CRIP1	0.082824	10.359776	0.7466816	0.4743258	0.75825	-6.143868
SPATS2	0.0536979	8.3965833	0.7465232	0.4744168	0.75827	-6.143989
KHDC1	0.0525731	7.6172327	0.7464754	0.4744443	0.75827	-6.144025
IL4	0.0583643	6.8538273	0.7462315	0.4745845	0.75841	-6.144211
FAM131C	0.0539003	6.7978709	0.7459353	0.4747547	0.7586	-6.144436
ALDH8A1	-0.059553	7.0145066	-0.745699	0.4748906	0.75862	-6.144615
APOO	-0.070428	9.9527569	-0.745647	0.4749207	0.75862	-6.144655
EXOC5	0.080652	7.6397626	0.7456375	0.474926	0.75862	-6.144662
ATR	-0.059396	7.0219335	-0.745553	0.4749746	0.75862	-6.144726
GALNT1	0.1239109	8.4939901	0.7453704	0.4750796	0.7587	-6.144865
DEFB1	0.0605777	7.0187672	0.7448964	0.4753523	0.75906	-6.145225
CYSLTR1	-0.048131	6.9169115	-0.744698	0.4754667	0.75911	-6.145375
FOXR1	0.0530913	6.8722807	0.7445252	0.4755659	0.75911	-6.145506
MBP	0.0557102	8.1206841	0.7444617	0.4756025	0.75911	-6.145554
LMAN1	0.1194745	8.3596714	0.7444382	0.475616	0.75911	-6.145572
SRA1	-0.050888	8.0722125	-0.744388	0.4756447	0.75911	-6.14561
C3orf38	-0.062718	8.3987627	-0.744098	0.4758117	0.75925	-6.14583
MXRA5	0.0566265	6.872419	0.7440468	0.4758413	0.75925	-6.145869
TMEM229B	-0.054702	6.8129157	-0.743713	0.4760333	0.75948	-6.146122
ASS1	0.0493445	7.1503373	0.743166	0.4763486	0.7599	-6.146536
KISS1	0.0525182	6.8251819	0.7428629	0.4765233	0.76009	-6.146766
TRAPPC10	-0.050831	7.3314216	-0.741971	0.4770373	0.76083	-6.14744
TMEM266	0.0527009	6.797311	0.7417365	0.4771727	0.76092	-6.147618
PARD3	-0.055574	6.795022	-0.741694	0.4771973	0.76092	-6.14765

ATP6V1C1	-0.066664	7.6893756	-0.741436	0.4773459	0.76107	-6.147845
CRSP8P	0.0654087	10.193182	0.7409932	0.4776016	0.7614	-6.14818
LBH	-0.05828	7.4055172	-0.740502	0.4778851	0.76172	-6.14855
GLUD1	0.0866591	11.367141	0.7404595	0.4779097	0.76172	-6.148583
SEMA7A	0.0570654	7.0776756	0.740321	0.4779897	0.76177	-6.148687
EVI5L	0.0626741	8.4602296	0.7400739	0.4781324	0.76181	-6.148874
CYP26B1	-0.053071	6.8129621	-0.739976	0.4781892	0.76181	-6.148948
PCDHGB4	-0.055189	6.7625285	-0.739889	0.4782391	0.76181	-6.149013
UACA	-0.054315	6.8862623	-0.739804	0.4782884	0.76181	-6.149077
MGA	0.0678794	7.5754198	0.7397833	0.4783002	0.76181	-6.149093
SPECC1L	-0.051021	9.3204491	-0.739727	0.4783326	0.76181	-6.149135
GPX7	-0.077341	6.8874625	-0.739286	0.4785874	0.76208	-6.149468
CSAG3	0.0564377	7.0188378	0.7392548	0.4786056	0.76208	-6.149491
YRDC	0.076321	10.913997	0.7387163	0.4789169	0.7623	-6.149897
ZNF414	0.0668484	7.2466117	0.7386811	0.4789372	0.7623	-6.149924
HSF4	-0.048611	6.8537509	-0.738591	0.4789895	0.7623	-6.149992
SLAMF6	0.0597179	9.2290438	0.7385032	0.4790401	0.7623	-6.150058
IL2RB	0.0674683	7.2737263	0.7384927	0.4790462	0.7623	-6.150065
FKBP9P1	-0.053135	6.7511725	-0.738398	0.4791006	0.7623	-6.150136
PPP1R14C	0.0524275	6.8138074	0.7383869	0.4791074	0.7623	-6.150145
IPO7	0.1251059	8.4612696	0.7380159	0.4793219	0.76256	-6.150424
TBX1	-0.062813	6.9342663	-0.737608	0.479558	0.76285	-6.150731
DMD	-0.054387	7.1311401	-0.737424	0.4796647	0.76286	-6.15087
LOC388692	-0.053663	7.2926025	-0.737362	0.4797002	0.76286	-6.150916
SP6	0.0644582	7.0886142	0.7373241	0.4797222	0.76286	-6.150945
ALPK3	0.0516748	6.8044739	0.7370636	0.479873	0.76302	-6.151141
CARF	-0.052131	6.7942053	-0.736853	0.4799949	0.76311	-6.151299
SHF	-0.067742	6.8727351	-0.736786	0.4800337	0.76311	-6.151349
LETM2	-0.06798	6.8411427	-0.736526	0.4801842	0.76321	-6.151545
HDAC7	-0.048175	7.2808946	-0.736488	0.4802064	0.76321	-6.151573
SP2	0.0707974	7.8402079	0.7364041	0.4802549	0.76321	-6.151636
RWDD2B	-0.054764	7.8902234	-0.73618	0.4803848	0.76328	-6.151805
CORO6	0.0450631	6.8595812	0.7361422	0.4804066	0.76328	-6.151833
AAAS	0.0667248	7.7179674	0.7360306	0.4804713	0.7633	-6.151917
ENPP1	0.0551339	7.2402653	0.7358818	0.4805575	0.76334	-6.152029
MIR1229	0.0644081	7.0059985	0.73581	0.4805991	0.76334	-6.152083
PPOX	-0.054749	7.9663415	-0.735442	0.4808126	0.7636	-6.152359
ZNF699	-0.047003	6.8925261	-0.735107	0.4810065	0.76376	-6.15261
PSKH1	-0.047234	7.0463894	-0.735081	0.4810217	0.76376	-6.15263
FES	-0.078471	7.0802041	-0.734893	0.4811306	0.76379	-6.15277
THSD7B	-0.070513	6.7797396	-0.734873	0.4811425	0.76379	-6.152786
ARHGEF40	0.0681161	7.001013	0.7347701	0.4812019	0.7638	-6.152863
FAM46B	-0.050325	6.7891108	-0.734584	0.4813099	0.76389	-6.153002

FSD1L	-0.057663	7.2153051	-0.734367	0.4814358	0.76401	-6.153165
RN7SL1	0.0649886	13.692768	0.7342315	0.4815144	0.76405	-6.153266
LOC100128(	-0.082448	6.9060687	-0.733901	0.4817061	0.76422	-6.153514
ZNF594	0.0725076	8.254482	0.7338436	0.4817394	0.76422	-6.153557
GNPDA1	-0.056422	7.6202168	-0.733775	0.4817793	0.76422	-6.153608
PMEL	0.0487365	6.7998505	0.7335651	0.4819011	0.76431	-6.153766
CIART	-0.049465	6.727464	-0.733498	0.48194	0.76431	-6.153816
ATRN	0.0452969	6.8539268	0.733221	0.4821008	0.76445	-6.154023
LYRM7	0.0849933	8.8106007	0.7330019	0.4822281	0.76445	-6.154187
GTF3C3	0.0803129	9.8383862	0.7329857	0.4822375	0.76445	-6.154199
ZNF189	0.0773046	7.9950554	0.7329764	0.4822429	0.76445	-6.154206
FBXO45	-0.04502	7.5741363	-0.732847	0.482318	0.76449	-6.154303
HIF3A	0.0763577	6.9929097	0.7325259	0.4825045	0.7647	-6.154543
TRMT10B	0.0487141	7.4645052	0.7323256	0.4826209	0.76473	-6.154693
MBD3L2	0.0535265	6.9531559	0.732312	0.4826288	0.76473	-6.154703
XPNPEP2	-0.060353	6.9341693	-0.731885	0.4828768	0.76498	-6.155022
LYPD6	0.0484381	6.8125423	0.7315956	0.4830452	0.76498	-6.155238
PHF21B	-0.051183	7.3221553	-0.731547	0.4830735	0.76498	-6.155275
KIAA1024L	-0.071569	7.0206818	-0.73151	0.4830952	0.76498	-6.155302
TRAF3IP2	0.0480374	6.7625883	0.7314683	0.4831192	0.76498	-6.155333
SLC22A4	0.0561366	6.8676475	0.7314571	0.4831257	0.76498	-6.155342
MIR2278	-0.050718	6.9172063	-0.731416	0.4831494	0.76498	-6.155372
LIN52	0.0913257	7.9152281	0.7311824	0.4832854	0.765	-6.155547
ESD	-0.053097	9.5332248	-0.731134	0.4833133	0.765	-6.155582
POU6F1	0.056037	7.0562819	0.7310675	0.4833522	0.765	-6.155632
MTR	-0.100766	9.0491335	-0.731027	0.4833758	0.765	-6.155663
EIF4E1B	0.0686552	7.0456725	0.7306497	0.4835953	0.76527	-6.155944
VEGFD	-0.051135	6.8632801	-0.730209	0.4838516	0.76559	-6.156273
DGKE	0.0500289	6.7440358	0.7300124	0.4839661	0.76562	-6.156419
SYNE2	0.0690885	7.3942191	0.7299991	0.4839738	0.76562	-6.156429
TRIM16	-0.047257	6.8556833	-0.729792	0.4840945	0.76564	-6.156584
KLHL14	0.0651915	6.9470252	0.72978	0.4841014	0.76564	-6.156593
BDNF	0.0510666	6.8913911	0.7296693	0.4841658	0.76564	-6.156675
ITGB4	-0.045389	6.7843548	-0.729513	0.4842571	0.76564	-6.156792
PHIP	0.0779371	8.7511564	0.729471	0.4842813	0.76564	-6.156823
RNF149	-0.062796	8.604292	-0.729421	0.4843103	0.76564	-6.15686
MRPS15	-0.069652	11.015177	-0.729305	0.484378	0.76564	-6.156947
CD300LF	0.0460815	6.7564257	0.7292532	0.4844082	0.76564	-6.156985
OAT	-0.078336	9.9986744	-0.728894	0.4846173	0.76582	-6.157253
INSRR	0.0486355	6.9670762	0.7288798	0.4846257	0.76582	-6.157263
PAM16	-0.060946	10.227292	-0.728238	0.4849993	0.76618	-6.15774
INPP4A	0.0717177	7.2058944	0.7282293	0.4850047	0.76618	-6.157747
TTLL1	0.0572452	7.0489724	0.7282137	0.4850138	0.76618	-6.157759

ZNF883	-0.054187	6.9028288	-0.728098	0.485081	0.76621	-6.157845
AGXT	-0.054378	6.8751166	-0.72779	0.4852609	0.7664	-6.158074
GRK5	0.0594687	7.7072569	0.7277048	0.4853104	0.7664	-6.158137
DALRD3	0.0808763	7.2744192	0.727549	0.4854013	0.76645	-6.158253
TACC2	0.0511056	6.6940123	0.7274461	0.4854613	0.76645	-6.15833
FAM49A	-0.079701	7.0509031	-0.727357	0.4855133	0.76645	-6.158396
SPATA33	0.0465123	6.8618828	0.7272995	0.4855468	0.76645	-6.158439
MIR583	-0.053228	6.8700888	-0.727125	0.4856487	0.76646	-6.158568
RBMY2FP	-0.078395	7.3048623	-0.727099	0.4856638	0.76646	-6.158587
STK39	0.0651953	10.320241	0.7269677	0.4857404	0.76648	-6.158685
GATD1	0.058862	8.0175369	0.7268826	0.48579	0.76648	-6.158748
SNX18	0.0520088	6.9481138	0.7268174	0.4858281	0.76648	-6.158797
TMPRSS4	0.0457009	6.7523284	0.7266954	0.4858992	0.7665	-6.158887
LENG8	-0.052716	7.112471	-0.726613	0.4859472	0.7665	-6.158948
AGBL5	0.054372	8.1224204	0.726234	0.4861685	0.76674	-6.15923
SNAPIN	-0.062513	8.3816778	-0.72617	0.4862059	0.76674	-6.159277
C22orf24	-0.056804	6.9552227	-0.726058	0.4862711	0.76676	-6.15936
MEX3C	-0.106688	8.9695249	-0.725676	0.4864942	0.76698	-6.159643
SLC43A1	0.0656908	7.4125661	0.7256361	0.4865177	0.76698	-6.159673
CLCNKA	-0.062666	6.839991	-0.725014	0.4868808	0.76745	-6.160134
SPG11	-0.057785	8.7768633	-0.724948	0.4869198	0.76745	-6.160183
ADAR	0.0609736	9.0949331	0.7246169	0.4871131	0.76767	-6.160428
MT1G	-0.077963	6.9645665	-0.724279	0.4873107	0.7679	-6.160679
CPEB1	0.0544331	6.8413542	0.7240521	0.4874433	0.76795	-6.160847
PTGS1	-0.045597	7.0899348	-0.724043	0.4874485	0.76795	-6.160853
NUP88	0.049798	11.161272	0.7238094	0.4875852	0.76803	-6.161026
ARSH	-0.047665	6.8295095	-0.723774	0.4876059	0.76803	-6.161052
MAP1B	-0.045295	6.798441	-0.72354	0.4877426	0.76816	-6.161225
CLSTN2	-0.046996	6.744348	-0.723462	0.4877882	0.76816	-6.161283
THRA	0.0481756	6.9304582	0.7228145	0.4881673	0.76862	-6.161762
TSFM	-0.06163	8.5432194	-0.722783	0.4881857	0.76862	-6.161785
ABCC4	-0.075005	8.6347905	-0.722553	0.4883205	0.76875	-6.161955
SAMD11	0.0562928	7.0272155	0.7222274	0.4885109	0.76889	-6.162195
NQO1	0.0582862	7.7524898	0.7221119	0.4885785	0.76889	-6.162281
KMT5B	0.0525708	7.8166557	0.7220732	0.4886012	0.76889	-6.162309
NXPH2	-0.054911	7.1555448	-0.722037	0.4886225	0.76889	-6.162336
YBEY	-0.048222	9.2505543	-0.721876	0.4887168	0.76895	-6.162455
MT1IP	-0.056219	7.1976799	-0.721499	0.4889374	0.76917	-6.162733
MGC72080	0.0661142	8.9294373	0.7213371	0.4890324	0.76917	-6.162852
CASP9	-0.044817	7.8023231	-0.721289	0.4890607	0.76917	-6.162888
MYLPF	0.0981238	6.8463922	0.7210276	0.4892137	0.76917	-6.163081
ZNF776	-0.075423	7.2362558	-0.720935	0.4892682	0.76917	-6.163149
DZANK1	-0.060437	7.2075935	-0.720925	0.4892738	0.76917	-6.163156

CPQ	-0.044332	6.7833514	-0.720916	0.4892792	0.76917	-6.163163
CAND1	0.1003902	9.4603395	0.7207578	0.4893719	0.76917	-6.16328
ARL4A	-0.045687	6.9123168	-0.720746	0.4893789	0.76917	-6.163288
BCL2L15	0.0473782	6.8165044	0.7207393	0.4893827	0.76917	-6.163293
FBXO21	-0.056337	9.7838028	-0.720325	0.4896258	0.76947	-6.163599
PPAN-P2RY1	-0.059964	7.3166015	-0.719925	0.4898603	0.7697	-6.163893
TRIM9	0.0499659	8.1088472	0.7198924	0.4898793	0.7697	-6.163917
MAGEC1	-0.067539	6.8964841	-0.719729	0.4899751	0.76977	-6.164037
FAM86JP	0.0668027	7.328084	0.7193423	0.4902021	0.77005	-6.164322
TAGAP	-0.053597	7.4630597	-0.719242	0.4902608	0.77006	-6.164396
TRIM51	-0.063097	7.0175884	-0.719125	0.4903299	0.77008	-6.164482
FOCAD	0.0454254	8.5755175	0.7188904	0.4904673	0.77014	-6.164654
PDE3B	-0.071069	7.1399078	-0.718882	0.490472	0.77014	-6.16466
PIP4K2C	0.059124	7.9959904	0.7185938	0.4906414	0.77026	-6.164872
HSFX1	-0.05425	6.9417903	-0.718575	0.4906522	0.77026	-6.164886
GATAD1	-0.051439	7.1542912	-0.718193	0.4908769	0.77028	-6.165167
TEPSIN	-0.077437	7.121025	-0.718176	0.4908866	0.77028	-6.165179
SLC9A1	0.0479971	9.5093563	0.7181569	0.490898	0.77028	-6.165193
CAPN5	0.0594207	6.877999	0.7181098	0.4909256	0.77028	-6.165228
DNAJB14	0.0675517	7.7237157	0.7181038	0.4909291	0.77028	-6.165232
SNORD58B	-0.056702	7.0032806	-0.717939	0.4910261	0.77035	-6.165354
CATSPER1	-0.051777	6.7352366	-0.717725	0.4911517	0.77044	-6.165511
KIAA0391	0.0806369	10.068462	0.7176544	0.4911931	0.77044	-6.165563
RNF44	0.0647423	8.0672683	0.7175215	0.4912712	0.77045	-6.16566
GNRHR	-0.079545	6.8376585	-0.717429	0.4913257	0.77045	-6.165728
ATG7	0.0899637	8.7637041	0.7173422	0.4913766	0.77045	-6.165792
EPHB4	-0.051257	6.8449272	-0.717282	0.4914118	0.77045	-6.165836
ANGEL2	0.0656944	9.5974158	0.7169781	0.4915906	0.77058	-6.166059
OR4C45	0.0535743	6.9102931	0.7169656	0.4915979	0.77058	-6.166068
LINC01096	0.0466173	6.8036545	0.7168703	0.491654	0.77059	-6.166138
PSRC1	-0.052731	7.2204904	-0.716681	0.4917652	0.77068	-6.166277
LINC00515	0.0588682	7.2358082	0.716444	0.4919046	0.77081	-6.166451
DNAJC18	0.0689865	7.7852376	0.7162631	0.492011	0.77084	-6.166583
AAED1	-0.051003	6.9071022	-0.71623	0.4920307	0.77084	-6.166608
FKBP9	0.0450442	6.9083767	0.7154686	0.4924785	0.77146	-6.167165
MS4A3	0.0479997	6.8007246	0.7150508	0.4927244	0.77177	-6.167471
ARPC2	-0.059131	9.0972302	-0.714659	0.4929551	0.77204	-6.167758
COL8A1	0.0512967	6.7550678	0.7140581	0.493309	0.77252	-6.168197
POGZ	-0.044942	7.0080195	-0.71383	0.4934433	0.77264	-6.168364
PTPRT	-0.052439	6.9457079	-0.713495	0.4936409	0.77277	-6.168609
SLC25A17	-0.07582	8.8886019	-0.713484	0.4936476	0.77277	-6.168617
COPG2IT1	0.0674645	6.9685211	0.7133534	0.4937243	0.77277	-6.168712
ABCC6	-0.044395	6.8811134	-0.713336	0.4937344	0.77277	-6.168725

FETUB	0.0751213	6.963611	0.7130873	0.4938811	0.77291	-6.168906
TMED2	0.0921472	10.960411	0.7127053	0.4941064	0.77311	-6.169185
NEMP2	0.0564119	6.9766406	0.7126141	0.4941602	0.77311	-6.169252
RXFP1	0.0443281	6.7037876	0.7126077	0.494164	0.77311	-6.169256
LRRTM1	-0.050628	6.7924668	-0.712491	0.4942325	0.77313	-6.169341
OR1L8	-0.076814	6.9926565	-0.712362	0.4943088	0.77317	-6.169436
CPEB4	-0.05569	7.5110861	-0.711811	0.4946338	0.77359	-6.169837
MIR365A	-0.069666	7.1310689	-0.711642	0.4947339	0.77366	-6.169961
KIAA1551	-0.07065	7.820691	-0.711343	0.4949104	0.77366	-6.170179
TMEM255A	-0.077684	7.0392555	-0.711289	0.4949421	0.77366	-6.170218
RANBP1	-0.055047	11.781965	-0.711242	0.4949701	0.77366	-6.170252
DPP7	0.0621366	8.7337517	0.7112082	0.4949898	0.77366	-6.170277
RELT	-0.053815	7.2136059	-0.711118	0.4950428	0.77366	-6.170342
MAB21L2	0.0454811	6.8690912	0.7111064	0.4950499	0.77366	-6.170351
HNRNPA1P3	0.0999004	11.870284	0.7109675	0.4951319	0.77366	-6.170452
SNAI2	-0.045702	6.9776258	-0.710914	0.4951632	0.77366	-6.170491
NEURL4	0.0539028	7.7002148	0.7107802	0.4952426	0.77366	-6.170588
GZF1	-0.061049	7.1437947	-0.710714	0.4952816	0.77366	-6.170637
ZNF544	-0.050614	9.1390359	-0.710513	0.4954004	0.77366	-6.170783
USP4	0.0570703	7.7547684	0.7104286	0.4954502	0.77366	-6.170844
TBC1D20	-0.05078	7.4719595	-0.71042	0.4954552	0.77366	-6.17085
LCA5	0.0433693	6.8449942	0.7103895	0.4954733	0.77366	-6.170873
FKBP14	0.0913392	8.9996278	0.7102708	0.4955435	0.77369	-6.170959
MIR1185-1	0.0581988	7.5393213	0.7098596	0.4957864	0.77399	-6.171258
FOXD2	-0.047051	6.9258911	-0.709584	0.4959493	0.77416	-6.171459
GOLIM4	0.0732354	8.0506202	0.7087471	0.4964442	0.77485	-6.172067
UBE2S	0.056644	6.8951378	0.7082329	0.4967484	0.77523	-6.17244
CD28	0.044404	6.94392	0.7081556	0.4967941	0.77523	-6.172496
EIF2D	0.0671257	10.194018	0.7079964	0.4968883	0.77529	-6.172611
CCNDBP1	-0.052003	9.1613195	-0.707877	0.4969588	0.77529	-6.172698
LATS1	-0.045888	6.8053917	-0.707815	0.4969957	0.77529	-6.172743
TSHZ3	-0.052498	6.9535887	-0.707562	0.4971457	0.77545	-6.172927
PLXNB1	0.0466484	6.6830459	0.7072508	0.4973297	0.7755	-6.173152
AQP1	-0.069461	6.9823184	-0.707242	0.497335	0.7755	-6.173158
CTXN1	0.0584644	10.282183	0.7071876	0.4973671	0.7755	-6.173198
MIR657	-0.046022	6.9039219	-0.707144	0.497393	0.7755	-6.173229
IFT81	-0.053535	7.1052071	-0.706794	0.4976	0.77566	-6.173483
LSG1	0.0743282	8.4132975	0.7067937	0.4976004	0.77566	-6.173483
ZNF704	0.0712938	7.1265191	0.7066409	0.497691	0.77572	-6.173594
NDUFAF8	-0.057232	8.1385274	-0.706365	0.4978547	0.77589	-6.173794
BPHL	-0.049595	9.3083238	-0.706223	0.4979384	0.77594	-6.173896
LOC1001321	-0.074157	7.323056	-0.706132	0.4979924	0.77594	-6.173962
HIST1H2AM	0.0529353	7.2738042	0.7060165	0.4980609	0.77594	-6.174046

CISD2	-0.073868	8.9056806	-0.705951	0.4981	0.77594	-6.174094
NPIPB5	0.1920628	9.2918742	0.7053986	0.4984273	0.77609	-6.174493
PDE7B	-0.055582	6.7701011	-0.705393	0.4984308	0.77609	-6.174497
USO1	-0.124778	10.022445	-0.705345	0.4984591	0.77609	-6.174532
NDUFB10	-0.060369	11.598237	-0.705307	0.4984817	0.77609	-6.174559
NOP9	0.0449926	6.9939278	0.7052789	0.4984982	0.77609	-6.174579
RCC2	0.1130557	12.20327	0.7052433	0.4985193	0.77609	-6.174605
SET	0.0884894	12.378535	0.7051002	0.4986042	0.7761	-6.174708
NSMCE3	-0.055552	7.8671648	-0.705062	0.498627	0.7761	-6.174736
BCL2L11	0.0530586	7.8096788	0.7047655	0.4988028	0.77615	-6.17495
LRRC37A2	-0.047114	6.9170742	-0.704677	0.4988551	0.77615	-6.175014
LOC388955	-0.04684	7.2942262	-0.70467	0.4988597	0.77615	-6.17502
KLHDC1	0.0553976	6.7807784	0.7046311	0.4988825	0.77615	-6.175048
REXO4	-0.068079	9.9758955	-0.704508	0.4989552	0.77615	-6.175136
MYCL	0.0466217	6.872449	0.7044665	0.4989802	0.77615	-6.175166
SPATA31B1I	-0.042838	7.3612916	-0.704211	0.4991317	0.77625	-6.175351
PAXBP1	-0.057452	8.1133464	-0.704182	0.499149	0.77625	-6.175372
NUDT4	0.046962	6.9516758	0.7040089	0.4992517	0.77628	-6.175497
GRK4	-0.055795	7.0714383	-0.703969	0.4992754	0.77628	-6.175526
YY1	0.0557101	10.050795	0.7036656	0.4994555	0.7763	-6.175744
LHFPL1	-0.058042	7.0065688	-0.703642	0.4994693	0.7763	-6.175761
MMP23B	-0.05339	7.0415829	-0.703587	0.499502	0.7763	-6.175801
CCM2	-0.043894	8.2807552	-0.70352	0.4995421	0.7763	-6.17585
KIAA0368	0.0510787	8.8466624	0.7034981	0.499555	0.7763	-6.175865
WDTC1	0.0555008	6.9379752	0.7033852	0.499622	0.7763	-6.175947
GPM6A	-0.054165	7.3521197	-0.703254	0.4997002	0.7763	-6.176042
RRN3P2	-0.065264	7.1348948	-0.703194	0.4997356	0.7763	-6.176085
C22orf34	0.1764325	8.072557	0.703064	0.4998128	0.7763	-6.176178
SPAG6	0.0438234	6.8070894	0.7030481	0.4998222	0.7763	-6.17619
ZNF32	-0.046366	6.9074493	-0.702678	0.500042	0.7763	-6.176456
GAB3	-0.047635	6.7803833	-0.702574	0.5001037	0.7763	-6.176531
RPLP1	-0.071061	13.117495	-0.702503	0.5001463	0.7763	-6.176583
MAP3K21	-0.051848	6.9046526	-0.702487	0.5001556	0.7763	-6.176594
BIN1	0.0509591	7.0217435	0.702482	0.5001585	0.7763	-6.176598
KBTBD6	-0.054051	7.3467696	-0.702452	0.5001765	0.7763	-6.17662
ARL6IP4	0.058456	8.1333496	0.7023768	0.5002211	0.7763	-6.176674
PPIC	-0.045006	6.7483029	-0.702272	0.5002835	0.7763	-6.176749
ANXA7	-0.100733	11.062201	-0.702163	0.5003481	0.7763	-6.176828
CPVL	-0.043841	6.7543689	-0.70208	0.5003973	0.7763	-6.176887
TCTA	0.049326	7.7310915	0.7019811	0.5004562	0.7763	-6.176959
PCDHGC3	-0.049257	6.9448974	-0.701938	0.5004819	0.7763	-6.17699
SULT1A1	-0.067634	8.1346829	-0.701888	0.5005113	0.7763	-6.177025
SOX18	-0.055435	6.7701945	-0.701593	0.5006869	0.77649	-6.177238

SLC25A41	0.0461721	6.8162492	0.7014664	0.5007623	0.77652	-6.177329
VSTM4	0.0476967	6.8610537	0.7011754	0.5009354	0.7767	-6.177538
RPS15A	-0.063939	13.194684	-0.701091	0.5009859	0.7767	-6.177599
ZDHHC19	-0.04988	6.8508446	-0.700882	0.50111	0.77681	-6.177749
CCDC117	0.0532449	8.2751048	0.7005638	0.5012992	0.77697	-6.177978
DAXX	0.0503949	7.8700774	0.700534	0.501317	0.77697	-6.177999
TRIP13	0.0571076	9.945906	0.7001307	0.501557	0.77726	-6.178289
ZNF790	0.0484187	6.8496934	0.6997406	0.5017893	0.77754	-6.178569
KBTBD4	0.0511601	7.7958029	0.6995122	0.5019253	0.77758	-6.178733
C6orf89	0.0527063	7.4354414	0.699445	0.5019653	0.77758	-6.178781
LRRC37BP1	0.0774883	8.9310729	0.6993122	0.5020444	0.77758	-6.178877
AFF4	0.0846726	8.2853553	0.6991961	0.5021136	0.77758	-6.17896
C3	0.0473127	6.8615175	0.6991579	0.5021363	0.77758	-6.178987
NARF	-0.058749	8.8601573	-0.699083	0.5021807	0.77758	-6.179041
KRT18	-0.058525	6.934646	-0.699048	0.5022019	0.77758	-6.179066
ZNF543	-0.072389	7.5609252	-0.698908	0.502285	0.77758	-6.179166
PTPRA	0.0492905	7.6689114	0.6988915	0.502295	0.77758	-6.179178
BRCC3	-0.061256	7.8644326	-0.698803	0.502348	0.77758	-6.179242
UFL1	-0.082033	7.2622996	-0.698662	0.5024318	0.77762	-6.179343
RPL21P44	0.0480304	6.7685262	0.6983259	0.5026321	0.7777	-6.179584
KMT2C	0.0464687	7.155359	0.6983179	0.5026369	0.7777	-6.17959
ARAP2	0.0533474	7.2545604	0.6983057	0.5026441	0.7777	-6.179598
HCFC2	-0.079626	6.9913322	-0.697924	0.502872	0.77791	-6.179872
SYF2	-0.058012	8.9574164	-0.697909	0.5028808	0.77791	-6.179883
B4GALNT1	-0.063328	7.0214114	-0.697772	0.5029626	0.77792	-6.179981
LIPF	0.0620138	6.9836809	0.6976849	0.5030143	0.77792	-6.180043
AGO4	-0.043714	6.7862424	-0.697626	0.5030492	0.77792	-6.180085
ARHGAP28	-0.063404	6.8463285	-0.69754	0.5031007	0.77792	-6.180147
MRM3	-0.085601	10.375117	-0.697182	0.5033144	0.77816	-6.180403
TMCO2	-0.043912	6.7769825	-0.696928	0.5034661	0.77832	-6.180585
GSKIP	-0.066946	8.1149681	-0.696584	0.503671	0.77855	-6.180831
MAEA	-0.059719	8.4151959	-0.696318	0.5038297	0.77861	-6.181021
ASCC3	0.0513268	8.3814264	0.6962719	0.5038574	0.77861	-6.181054
NKX3-2	0.0457291	6.7462082	0.6961622	0.5039228	0.77861	-6.181132
FOXJ3	-0.06046	9.8758575	-0.69611	0.503954	0.77861	-6.181169
MIR199A2	0.054144	6.8131742	0.6960751	0.5039749	0.77861	-6.181194
ORMDL2	0.0545799	7.2504172	0.6958317	0.5041202	0.77873	-6.181368
RGS16	0.0523502	8.3115136	0.6957665	0.5041591	0.77873	-6.181415
SOS2	0.0490557	6.9097051	0.6955938	0.5042623	0.77875	-6.181538
MYO1B	-0.047296	6.8871359	-0.695566	0.5042791	0.77875	-6.181558
MYPN	-0.062082	6.8405217	-0.695319	0.5044265	0.77889	-6.181734
SNF8	0.0817825	9.9447035	0.6948892	0.5046832	0.77915	-6.182041
SDC1	0.0483138	7.05627	0.6947859	0.5047449	0.77915	-6.182115

ZDHHC20	0.0654848	6.991921	0.6947433	0.5047704	0.77915	-6.182145
NDUFC2	-0.077236	7.1809694	-0.694685	0.5048051	0.77915	-6.182187
XAGE1E	-0.089381	7.0850955	-0.694217	0.5050852	0.7795	-6.182521
NAPSB	0.0627416	10.907191	0.6941289	0.5051377	0.7795	-6.182583
TMEM154	0.0466342	7.4405798	0.6938621	0.5052972	0.77966	-6.182773
SLC33A1	-0.043653	8.1825019	-0.693638	0.505431	0.77978	-6.182933
STARD8	0.0465985	6.8813583	0.6935561	0.5054802	0.77978	-6.182991
ATPAF1	-0.052701	8.4212962	-0.693363	0.5055956	0.77987	-6.183129
C6orf120	-0.084823	7.293731	-0.693219	0.5056819	0.77992	-6.183231
ZNF441	-0.0501	6.736054	-0.692833	0.5059129	0.78008	-6.183506
CENPB	0.0768975	10.053847	0.6927829	0.5059429	0.78008	-6.183542
C12orf45	-0.081297	9.2060733	-0.692778	0.5059459	0.78008	-6.183545
FCRL5	-0.048512	6.8812857	-0.692637	0.50603	0.78013	-6.183645
MRPL10	-0.047408	8.0833091	-0.692491	0.5061175	0.78018	-6.183749
NLRP12	-0.049318	6.9143703	-0.692233	0.5062717	0.78033	-6.183933
ZNF273	-0.067552	7.0360026	-0.692079	0.5063644	0.78033	-6.184043
ICAM2	-0.043825	8.9763679	-0.691955	0.5064383	0.78033	-6.18413
TRIM43	0.0575781	7.0053104	0.6918734	0.5064874	0.78033	-6.184189
LDB1	0.0457783	6.9679003	0.6918201	0.5065193	0.78033	-6.184226
FAM169A	-0.067043	6.9342796	-0.691772	0.506548	0.78033	-6.18426
RHBDL2	0.0704438	7.6996427	0.6915538	0.5066788	0.78033	-6.184416
SLC24A2	0.047842	6.94897	0.6914019	0.5067698	0.78033	-6.184523
TNFAIP2	-0.048486	6.6905926	-0.691291	0.5068362	0.78033	-6.184602
MAPKAPK5	-0.047085	9.0261274	-0.691271	0.5068482	0.78033	-6.184616
EPHX1	-0.046618	6.8233876	-0.691238	0.5068678	0.78033	-6.18464
DCUN1D1	-0.080029	8.4058353	-0.691203	0.506889	0.78033	-6.184665
TPTE	-0.054293	6.8105436	-0.69117	0.5069087	0.78033	-6.184688
DARS	-0.08753	12.225834	-0.691073	0.5069671	0.78034	-6.184757
PRDM10	-0.047344	8.0271215	-0.690958	0.5070355	0.78036	-6.184838
SLC7A5P2	0.0545536	9.3703682	0.6908516	0.5070995	0.78038	-6.184914
H2AFY2	-0.052401	6.9848615	-0.6904	0.5073703	0.78071	-6.185235
DMRT2	0.0438017	6.8667818	0.6899588	0.5076349	0.78095	-6.185547
EIF2S1	-0.065916	8.8090694	-0.689905	0.5076669	0.78095	-6.185585
KRT78	0.0629356	6.8499446	0.6896666	0.5078101	0.78095	-6.185755
SLC5A8	0.0891034	8.2517201	0.6895797	0.5078622	0.78095	-6.185816
ZNF670	-0.057162	6.9422136	-0.689464	0.5079313	0.78095	-6.185898
ADORA2B	-0.055867	7.9648715	-0.689453	0.5079383	0.78095	-6.185906
ARFRP1	-0.047384	7.0341569	-0.689399	0.5079704	0.78095	-6.185944
ZFPM2	0.0814213	6.8420171	0.6893453	0.5080029	0.78095	-6.185982
CXCL9	0.0875596	7.2119005	0.6892505	0.5080597	0.78095	-6.186049
FBXL5	0.0487994	7.7126516	0.6891205	0.5081377	0.78095	-6.186141
SPOPL	-0.078515	7.4638169	-0.689109	0.5081448	0.78095	-6.18615
WDR7	0.0538767	7.557914	0.6890753	0.5081649	0.78095	-6.186173

ACAD9	-0.057555	9.755344	-0.688964	0.508232	0.78097	-6.186253
GTF2A1	-0.052345	7.0981502	-0.688872	0.5082867	0.78097	-6.186317
GPR180	0.0533073	7.8223389	0.6886496	0.5084204	0.78107	-6.186475
ACCS	0.0445114	6.7317701	0.6885829	0.5084604	0.78107	-6.186522
ANKRD20A5	-0.04577	6.7221636	-0.688481	0.5085218	0.78109	-6.186594
HDLBP	0.0422109	7.065413	0.6882506	0.5086599	0.78117	-6.186757
KRT9	0.0516519	6.8147237	0.6882089	0.508685	0.78117	-6.186787
PLA2G6	0.0446843	6.9865132	0.6878542	0.508898	0.78131	-6.187037
OSBPL10	-0.048509	10.175313	-0.687732	0.5089713	0.78131	-6.187124
FBLN2	-0.060264	6.855433	-0.687687	0.5089982	0.78131	-6.187155
SYNE1	0.0455412	6.9505798	0.6876115	0.5090438	0.78131	-6.187209
PBX3	0.0619117	9.0666312	0.6876108	0.5090442	0.78131	-6.187209
PIK3R1	0.0535637	7.3890983	0.687298	0.5092321	0.78152	-6.18743
ANXA5	0.0537553	9.9317071	0.6871984	0.509292	0.78153	-6.187501
PPP4R1	0.0551871	9.3938559	0.6870532	0.5093793	0.78153	-6.187603
CNOT2	-0.073969	9.9332978	-0.687017	0.5094009	0.78153	-6.187629
LOC100128(	-0.078323	6.9187798	-0.686749	0.5095619	0.7817	-6.187818
SLC1A7	0.0462495	6.920581	0.6865907	0.5096573	0.78176	-6.18793
ATP6V1A	0.0520341	11.707391	0.6862963	0.5098343	0.78195	-6.188138
C14orf28	-0.044236	7.1101105	-0.686086	0.5099609	0.78199	-6.188286
CD3E	0.0715189	6.811119	0.6860776	0.5099658	0.78199	-6.188292
CACYBP	-0.069343	8.2904428	-0.685648	0.5102245	0.7823	-6.188595
P2RX6P	-0.048343	6.885157	-0.685523	0.5102995	0.78233	-6.188683
RAPH1	0.0564709	6.8707449	0.6852928	0.5104379	0.7824	-6.188845
MUS81	0.0680663	8.4421883	0.6851561	0.5105202	0.7824	-6.188941
TARBP2	-0.051741	8.4413529	-0.685072	0.5105705	0.7824	-6.189
SPATA31E1	-0.051773	6.8068181	-0.685061	0.5105775	0.7824	-6.189008
HJURP	0.054311	8.8166853	0.685007	0.51061	0.7824	-6.189046
AQP6	-0.075093	6.8099991	-0.684795	0.5107374	0.78251	-6.189196
CDCA2	0.0539277	7.9017833	0.6846953	0.5107976	0.78252	-6.189266
LPCAT2	-0.049768	6.8237251	-0.684436	0.5109536	0.78258	-6.189448
AGGF1	-0.064274	7.3042339	-0.684346	0.5110078	0.78258	-6.189512
RAB8B	-0.095368	9.8356403	-0.684335	0.5110145	0.78258	-6.189519
WFS1	-0.084708	7.7623453	-0.684234	0.5110756	0.78258	-6.189591
CLDN18	0.0542684	6.7690981	0.6841887	0.5111027	0.78258	-6.189622
PCDHA1	-0.042974	6.8629672	-0.683999	0.5112168	0.78267	-6.189756
PLK3	0.0477907	7.0510872	0.6835567	0.5114834	0.783	-6.190067
FOSL1	-0.048221	6.9131251	-0.683326	0.5116221	0.78312	-6.190229
ZBTB10	0.0568757	7.0265676	0.6830353	0.5117975	0.78312	-6.190433
CMTM5	0.0615691	6.8469815	0.6830329	0.511799	0.78312	-6.190435
AZIN1	-0.054987	9.24276	-0.683009	0.5118133	0.78312	-6.190452
USP51	0.0439285	6.8111936	0.6828954	0.5118819	0.78312	-6.190532
LMOD3	0.1137231	8.7658587	0.6828936	0.5118829	0.78312	-6.190533

HDAC2	-0.054427	9.1142966	-0.682725	0.5119846	0.78318	-6.190651
MEIS2	0.0564645	7.3038626	0.6825901	0.5120659	0.78318	-6.190746
CENPO	-0.043978	7.539241	-0.682543	0.5120946	0.78318	-6.190779
ZNF561	-0.073709	7.044811	-0.682377	0.5121947	0.78318	-6.190896
PRIM1	-0.051597	9.1959794	-0.682315	0.5122319	0.78318	-6.190939
ERBB3	-0.042916	6.8669936	-0.682292	0.5122455	0.78318	-6.190955
TRIM8	0.0658663	9.7618636	0.6821154	0.5123522	0.78326	-6.191079
RUFY2	0.0449014	6.8893095	0.6819786	0.5124347	0.7833	-6.191175
MZT2B	-0.042063	6.8807684	-0.68179	0.5125482	0.78335	-6.191307
TUFT1	0.0427247	6.8257459	0.6817502	0.5125725	0.78335	-6.191335
PPWD1	-0.058217	8.4861832	-0.681168	0.5129236	0.78372	-6.191743
YARS2	-0.057355	10.234996	-0.681117	0.5129544	0.78372	-6.191779
LOC1005063	0.0462416	6.9200313	0.6810273	0.5130087	0.78372	-6.191842
DDX41	-0.07584	9.0531762	-0.680924	0.513071	0.78372	-6.191914
PIK3CD-AS1	-0.055466	6.9480949	-0.680909	0.5130803	0.78372	-6.191925
RUFY1	0.0495675	7.7716373	0.6808099	0.51314	0.78373	-6.191994
CCT2	-0.061289	11.970652	-0.680422	0.5133742	0.784	-6.192266
BTF3	0.063797	11.820807	0.6803301	0.5134297	0.784	-6.19233
RIPOR1	-0.061923	8.1135601	-0.680105	0.5135657	0.7841	-6.192488
MINDY4	0.0659173	7.0323459	0.6798862	0.5136978	0.7841	-6.192641
TMEM200B	0.0573746	6.8734634	0.6797723	0.5137666	0.7841	-6.192721
MEGF10	0.0565476	7.0345239	0.6797508	0.5137796	0.7841	-6.192736
CYP2D7	0.0457094	6.8332322	0.6797472	0.5137818	0.7841	-6.192738
CYP1B1	0.0570447	6.7943555	0.6796882	0.5138175	0.7841	-6.192779
SLC35G2	0.0464677	6.7692285	0.6792747	0.5140674	0.78423	-6.193069
HECA	-0.094183	7.2981631	-0.679151	0.5141418	0.78423	-6.193155
PRAM1	-0.046642	6.7187329	-0.679131	0.5141542	0.78423	-6.193169
BHLHE22	-0.043063	6.8268892	-0.679114	0.5141644	0.78423	-6.193181
KLF3	-0.042149	6.9678591	-0.679076	0.5141874	0.78423	-6.193207
OR1K1	-0.05913	6.8498633	-0.679013	0.5142258	0.78423	-6.193252
NIT1	-0.065094	7.3192771	-0.678711	0.5144084	0.78436	-6.193463
DSTYK	0.0421041	7.5928939	0.6786761	0.5144292	0.78436	-6.193487
SEC61G	-0.053629	12.843492	-0.678609	0.5144701	0.78436	-6.193534
VSIG10	-0.065235	6.9637187	-0.67842	0.5145843	0.78438	-6.193666
PDIA5	0.0433469	7.8226833	0.6784102	0.51459	0.78438	-6.193673
ZNF580	0.0514071	7.1964761	0.6782234	0.514703	0.78443	-6.193803
GFRA1	0.0422655	6.8468882	0.6781735	0.5147331	0.78443	-6.193838
IFT46	-0.048027	8.0402214	-0.677977	0.5148518	0.78453	-6.193975
PPP5C	0.050541	6.9688025	0.677709	0.5150142	0.78461	-6.194162
NPFF	0.0630554	6.9916771	0.6776029	0.5150784	0.78461	-6.194236
SCAF1	0.0428229	7.01157	0.6775237	0.5151263	0.78461	-6.194291
TTTY19	0.045473	6.8917483	0.6774333	0.515181	0.78461	-6.194354
DNAJB5	0.0580291	7.2589866	0.6773784	0.5152142	0.78461	-6.194392

CXorf38	0.0756797	8.5647948	0.6773658	0.5152218	0.78461	-6.194401
WASF1	-0.046045	7.0218698	-0.677209	0.5153164	0.78466	-6.19451
COL27A1	-0.053062	6.7184641	-0.677072	0.5153996	0.78466	-6.194606
OSBPL8	0.065033	8.2293473	0.6770455	0.5154157	0.78466	-6.194625
CCL2	-0.054164	6.7654097	-0.67693	0.5154856	0.78468	-6.194705
1-Mar	-0.056155	6.866815	-0.676723	0.5156109	0.78472	-6.194849
POLR2J4	0.0553508	7.2121904	0.6767097	0.515619	0.78472	-6.194859
OPRL1	-0.046112	7.6758593	-0.676625	0.5156701	0.78472	-6.194917
SH3GLB2	0.0594847	10.554301	0.6761282	0.5159712	0.78509	-6.195263
STX16	-0.063825	8.4211798	-0.675896	0.5161119	0.78522	-6.195425
MIR215	0.0457701	6.8306815	0.6757833	0.5161801	0.78525	-6.195503
SCAF11	0.0699866	8.4286442	0.6755355	0.5163303	0.78539	-6.195676
URI1	-0.077778	10.353609	-0.675209	0.516528	0.78561	-6.195903
GDE1	0.0553415	7.9928967	0.6750973	0.5165959	0.78563	-6.195981
ABHD14B	0.060418	7.421235	0.6749475	0.5166867	0.78569	-6.196085
DDX6	-0.062315	6.9239959	-0.674795	0.5167794	0.78575	-6.196191
GFPT1	0.0479698	8.3226404	0.674511	0.5169514	0.78585	-6.196388
OGDHL	0.0499442	6.7756991	0.6745072	0.5169537	0.78585	-6.196391
LUC7L2	-0.062696	7.7264422	-0.674295	0.5170826	0.78596	-6.196538
MIR99B	-0.047216	6.8723197	-0.674087	0.5172086	0.78605	-6.196682
SYNPO2L	0.0513565	6.8405194	0.673965	0.5172825	0.78605	-6.196767
CD1A	-0.055606	6.8575231	-0.673937	0.5172997	0.78605	-6.196787
MAP10	0.0445855	6.7380302	0.6737345	0.5174224	0.78608	-6.196927
ZNF652	0.0809444	10.574519	0.6737213	0.5174304	0.78608	-6.196936
SPIRE1	-0.054432	9.0301311	-0.67362	0.5174917	0.78609	-6.197006
KCNH8	0.0446231	7.0520125	0.6733819	0.5176364	0.78614	-6.197172
CACNA2D4	-0.061288	6.7475394	-0.673323	0.5176722	0.78614	-6.197213
SLC38A11	0.065839	6.900622	0.6733083	0.517681	0.78614	-6.197223
ABHD2	-0.044298	7.1815473	-0.673167	0.5177668	0.78614	-6.197321
ZDHHC5	-0.092416	9.0159182	-0.673123	0.5177933	0.78614	-6.197351
PTPRK	-0.043655	6.8246887	-0.672997	0.5178699	0.78614	-6.197438
GDPD5	0.0525903	7.4395606	0.6729486	0.5178994	0.78614	-6.197472
KRT19	0.0739162	6.9108363	0.6725822	0.5181219	0.78633	-6.197726
PRSS42	0.0493228	6.9796453	0.6725619	0.5181342	0.78633	-6.19774
ADCK5	-0.058385	7.1301828	-0.672423	0.5182187	0.78638	-6.197836
GAGE12H	-0.04487	6.8861879	-0.672067	0.5184347	0.78663	-6.198083
SRSF7	-0.072145	10.482528	-0.67192	0.5185244	0.78666	-6.198185
PPP1R11	0.0962495	10.518482	0.6718115	0.5185901	0.78666	-6.19826
IL1RL1	0.0540608	6.9299804	0.6717599	0.5186214	0.78666	-6.198295
CSF3R	-0.042137	6.7841108	-0.671676	0.5186725	0.78666	-6.198354
PLS1	-0.057854	8.2742283	-0.671398	0.5188414	0.78683	-6.198546
RAB15	0.0429726	6.7676014	0.6710295	0.5190653	0.78709	-6.198801
C22orf29	-0.072161	7.6667068	-0.670669	0.5192847	0.78733	-6.19905

SYTL3	-0.043077	6.8608842	-0.670375	0.5194636	0.78733	-6.199253
NEK11	0.0429961	6.9070692	0.6703646	0.5194697	0.78733	-6.19926
TTC30A	-0.049375	6.9028198	-0.670275	0.5195242	0.78733	-6.199322
LRP1B	0.0544716	6.9287336	0.6702518	0.5195383	0.78733	-6.199338
PPP2R1B	-0.042045	7.406085	-0.670132	0.5196114	0.78733	-6.199421
PCGF1	0.0493561	8.2870689	0.6700565	0.5196571	0.78733	-6.199473
TMPRSS15	0.046663	7.0393171	0.6699207	0.5197397	0.78733	-6.199567
WIPI1	0.0616652	6.8754735	0.6698618	0.5197755	0.78733	-6.199607
RASA1	0.0744039	8.817959	0.66982	0.519801	0.78733	-6.199636
PPFIBP1	-0.047706	7.180665	-0.669772	0.5198302	0.78733	-6.199669
CAP2	-0.042764	6.8123579	-0.6697	0.519874	0.78733	-6.199719
BCR	0.0441153	6.9457565	0.6696181	0.5199238	0.78733	-6.199775
MIR875	-0.049449	6.8301341	-0.669475	0.5200107	0.78738	-6.199874
SDR16C5	0.0541387	7.0183572	0.6689739	0.5203159	0.78761	-6.20022
FMNL1	-0.067918	7.2623614	-0.668968	0.5203196	0.78761	-6.200224
NACA	-0.058927	13.511384	-0.668965	0.5203214	0.78761	-6.200226
MDFIC	0.0646216	7.5938219	0.6687066	0.5204788	0.78776	-6.200404
LARP4	0.0757746	8.3867694	0.668554	0.5205717	0.78782	-6.200509
LRRC41	-0.057854	9.7670828	-0.668256	0.520753	0.78788	-6.200714
SNHG17	0.0847359	10.872613	0.6681704	0.5208053	0.78788	-6.200774
PQBP1	0.0490567	8.4053111	0.6681112	0.5208414	0.78788	-6.200814
LOC390956	0.0815005	8.1262132	0.6680625	0.5208711	0.78788	-6.200848
NBEA	0.0527931	7.0164663	0.6680102	0.5209029	0.78788	-6.200884
TMTC3	-0.053815	7.0383879	-0.667963	0.5209316	0.78788	-6.200916
GTPBP3	-0.052851	9.3606297	-0.667446	0.5212466	0.78827	-6.201272
NADK2	0.0777087	7.4785931	0.6669438	0.5215529	0.78865	-6.201618
ZNF75D	-0.056449	7.6524227	-0.666838	0.5216174	0.78867	-6.20169
DCAF5	-0.05975	8.6540983	-0.666687	0.5217097	0.78873	-6.201794
IL13RA1	0.0453161	6.745574	0.6662149	0.5219974	0.78908	-6.202118
CCNA1	-0.052487	6.8012356	-0.66545	0.5224643	0.78939	-6.202644
RAB29	0.0519418	8.8492636	0.6653697	0.5225132	0.78939	-6.202699
LAX1	0.067949	7.7647435	0.665355	0.5225221	0.78939	-6.202709
NFIL3	-0.067117	7.814763	-0.665335	0.5225346	0.78939	-6.202723
ZNF566	0.0448041	6.9577078	0.6652747	0.5225711	0.78939	-6.202764
MIR199B	0.041867	7.0606075	0.6652736	0.5225718	0.78939	-6.202765
MICU1	-0.059338	7.8561702	-0.665254	0.5225838	0.78939	-6.202778
OR2AK2	-0.042277	6.8527077	-0.66499	0.5227451	0.78955	-6.202959
CLDN9	-0.045371	6.8134109	-0.664768	0.5228807	0.78968	-6.203112
WDR47	-0.049623	7.6957217	-0.664599	0.5229836	0.78975	-6.203227
SMCO1	-0.061015	6.9445429	-0.664425	0.52309	0.78981	-6.203347
ETF1	-0.043858	10.065118	-0.664294	0.5231702	0.78981	-6.203436
WDPCP	0.0545041	6.8847159	0.6642666	0.5231868	0.78981	-6.203455
TNS1	-0.049924	6.9000809	-0.663904	0.5234084	0.79003	-6.203703

AJAP1	-0.041459	6.8881766	-0.663803	0.5234702	0.79003	-6.203773
OAS1	-0.04661	7.576072	-0.663762	0.5234948	0.79003	-6.2038
DET1	0.0502691	7.2996547	0.663635	0.5235727	0.79003	-6.203888
PWAR5	0.0450921	6.7761021	0.6635193	0.5236433	0.79003	-6.203967
HPN-AS1	-0.051435	6.957785	-0.663502	0.5236538	0.79003	-6.203978
IER5L	-0.04664	6.7975478	-0.662807	0.5240788	0.79059	-6.204454
NR4A1	0.0447014	6.8293271	0.6626892	0.5241509	0.7906	-6.204534
MS4A14	0.0410986	6.7502703	0.662617	0.524195	0.7906	-6.204584
COMMD4	0.0743859	10.091997	0.6621153	0.5245019	0.79098	-6.204927
MARS2	-0.044043	8.375275	-0.661678	0.5247693	0.7913	-6.205225
LUZP2	-0.04169	6.9246637	-0.66158	0.5248296	0.79131	-6.205292
SLC2A9	-0.041778	6.8152331	-0.661268	0.5250202	0.79143	-6.205505
THEM5	-0.04782	6.9391969	-0.661253	0.5250299	0.79143	-6.205516
ANXA2P1	-0.046825	7.3480115	-0.66114	0.5250987	0.79143	-6.205592
METRNL	0.0514034	6.941682	0.6610369	0.5251619	0.79143	-6.205663
FMC1	-0.046961	9.6240238	-0.661006	0.5251807	0.79143	-6.205684
CITED4	-0.054486	6.8704059	-0.660453	0.5255195	0.79173	-6.206061
PSMG2	-0.065989	11.144108	-0.660324	0.5255988	0.79173	-6.206149
RAE1	-0.042648	9.1106744	-0.660262	0.5256368	0.79173	-6.206191
ZNF362	0.0671849	6.974119	0.6600544	0.5257637	0.79173	-6.206332
SEMA4C	-0.055505	6.928972	-0.659941	0.5258329	0.79173	-6.206409
NTMT1	-0.058193	8.0516115	-0.659889	0.5258651	0.79173	-6.206445
CLUHP3	0.0843254	7.2385602	0.6598582	0.5258839	0.79173	-6.206466
FAM160A2	0.0564498	7.8933338	0.6598578	0.5258841	0.79173	-6.206466
KIAA0040	-0.052779	7.5713246	-0.659805	0.5259168	0.79173	-6.206503
C2CD2L	-0.044447	6.7850607	-0.659753	0.5259484	0.79173	-6.206538
LMX1B	-0.040152	6.870046	-0.65971	0.5259747	0.79173	-6.206567
C9orf116	0.0423798	7.59976	0.6594355	0.5261429	0.79184	-6.206754
PUS1	-0.053831	8.6483767	-0.659412	0.5261572	0.79184	-6.20677
SVIL	-0.041431	6.9129352	-0.659325	0.5262108	0.79184	-6.206829
POLA2	-0.071415	10.024673	-0.659061	0.5263724	0.79186	-6.207008
PANX1	0.0499657	6.9664796	0.6588472	0.5265036	0.79186	-6.207154
COL18A1	0.0433666	6.7681524	0.6588389	0.5265087	0.79186	-6.20716
TRIM47	-0.059344	6.7205445	-0.658826	0.5265165	0.79186	-6.207168
USP3	-0.05949	9.4386299	-0.658772	0.5265495	0.79186	-6.207205
ZSWIM1	0.0701962	8.8884027	0.6586925	0.5265985	0.79186	-6.207259
MSX2	-0.04837	6.8835442	-0.658677	0.5266079	0.79186	-6.20727
CIDECP	0.052014	6.9922559	0.6584234	0.5267635	0.79196	-6.207442
LOC148413	-0.07357	9.7606832	-0.658396	0.5267805	0.79196	-6.207461
PELO	0.0450405	9.2855316	0.6580929	0.5269663	0.79216	-6.207667
RPUSD3	-0.067765	9.8084132	-0.657914	0.5270757	0.79224	-6.207788
ARHGAP44	-0.059069	8.7976903	-0.657657	0.5272339	0.7924	-6.207963
GPC6	-0.052118	7.3653356	-0.657445	0.5273639	0.79251	-6.208107

FMO1	-0.044329	6.902369	-0.656997	0.5276391	0.79284	-6.208411
VPS8	-0.044003	7.5721659	-0.656893	0.5277028	0.79285	-6.208481
HIST1H1C	-0.067695	8.2088664	-0.656735	0.5277996	0.79285	-6.208588
SLX4IP	0.063183	7.5150334	0.6567288	0.5278035	0.79285	-6.208592
LPAR6	-0.049164	6.8567615	-0.656413	0.5279976	0.79298	-6.208807
DCN	0.0457949	6.8660927	0.656371	0.5280233	0.79298	-6.208835
C15orf48	0.0432057	6.7941693	0.6562135	0.5281201	0.79298	-6.208942
SEC11C	-0.055708	12.005884	-0.656162	0.5281516	0.79298	-6.208977
MRFAP1L1	-0.044943	7.9872693	-0.656071	0.5282075	0.79298	-6.209038
OR2A2	0.0429053	6.8417406	0.6560564	0.5282166	0.79298	-6.209048
EIF4E3	-0.043197	6.7741282	-0.655968	0.5282711	0.79298	-6.209108
DNAJC15	-0.081742	9.0796101	-0.655765	0.5283959	0.79301	-6.209246
MANF	-0.060387	12.377693	-0.655514	0.5285498	0.79301	-6.209415
SEMG1	-0.042956	6.7993071	-0.655509	0.5285527	0.79301	-6.209419
JMY	-0.064353	7.1798941	-0.655494	0.5285623	0.79301	-6.209429
SLC30A1	0.0493676	7.4635189	0.6554883	0.5285656	0.79301	-6.209433
MROH7	-0.042312	6.7965725	-0.655337	0.5286586	0.79307	-6.209535
TAS2R43	-0.050774	6.9275754	-0.65516	0.5287676	0.79315	-6.209655
TCL6	0.0505467	6.9925471	0.6550611	0.5288283	0.79316	-6.209722
RDH14	0.0639186	9.6473323	0.6549297	0.5289091	0.79316	-6.209811
SNN	-0.055665	7.6601338	-0.65488	0.5289393	0.79316	-6.209844
PEA15	-0.06717	11.074611	-0.65432	0.5292838	0.7936	-6.210223
VARS2	-0.082352	9.6720068	-0.653696	0.5296681	0.79396	-6.210645
ZNF492	-0.048796	6.8038035	-0.653511	0.5297816	0.79396	-6.210769
RPS23	0.0579593	10.898531	0.6533276	0.5298947	0.79396	-6.210893
MKRN2	0.068144	9.4941697	0.6532458	0.529945	0.79396	-6.210948
PI4KA	-0.046039	8.5579407	-0.653237	0.5299502	0.79396	-6.210954
SLC41A1	-0.057449	8.2793679	-0.653162	0.5299969	0.79396	-6.211005
BEX2	0.0461839	6.792425	0.6530628	0.5300577	0.79396	-6.211072
OR4K2	-0.0576	6.9231527	-0.652986	0.5301051	0.79396	-6.211124
PVR	-0.044984	7.1350288	-0.652886	0.5301663	0.79396	-6.211191
VPS41	-0.048814	8.2256677	-0.652861	0.5301822	0.79396	-6.211208
EZR	-0.069472	13.035989	-0.652643	0.5303165	0.79396	-6.211355
ZBED9	0.0415989	6.9312344	0.6526386	0.5303189	0.79396	-6.211358
FRMD4B	-0.082372	6.853468	-0.652618	0.5303314	0.79396	-6.211372
GNG5	0.0787711	9.1582115	0.6525667	0.5303632	0.79396	-6.211406
CLCC1	0.0427771	7.7385524	0.6525007	0.5304039	0.79396	-6.211451
IGHG1	0.0689402	7.2994343	0.6524324	0.5304459	0.79396	-6.211497
EPS8L3	0.0627663	7.0306542	0.6524255	0.5304502	0.79396	-6.211502
YIPF6	-0.045581	8.782201	-0.651999	0.5307126	0.79427	-6.211789
PLGLB2	0.0495702	6.9541215	0.6518255	0.5308198	0.79435	-6.211906
LZTS2	0.0617468	7.0546293	0.6516637	0.5309195	0.79442	-6.212015
CFAP69	-0.056143	6.8134034	-0.651476	0.5310352	0.7945	-6.212141

ERO1B	-0.043098	7.3730679	-0.651322	0.5311304	0.7945	-6.212245
GOLGA7	-0.043814	7.9637787	-0.651303	0.5311421	0.7945	-6.212258
SUMF1	-0.069162	7.5827169	-0.651171	0.5312233	0.7945	-6.212347
HINT1	-0.0546	13.524338	-0.651137	0.5312442	0.7945	-6.212369
PCSK1	0.0641491	6.7122375	0.6507745	0.5314677	0.79475	-6.212613
MAP1LC3B	0.0522411	8.6570124	0.6503435	0.5317335	0.79507	-6.212903
NBPF15	-0.075501	7.2695029	-0.650011	0.5319384	0.7952	-6.213126
ASIC3	-0.047489	6.9212499	-0.650003	0.5319436	0.7952	-6.213132
DHRS13	-0.084079	8.1479724	-0.649926	0.5319908	0.7952	-6.213183
HPSE2	0.0414642	7.1022402	0.6498422	0.5320427	0.7952	-6.21324
BACE2	-0.04877	7.8413862	-0.649703	0.5321284	0.79522	-6.213333
MCM7	0.0534428	9.3567074	0.6496484	0.5321623	0.79522	-6.21337
ZC3H6	-0.046493	6.7897909	-0.649511	0.532247	0.79526	-6.213462
SLC35G6	0.0664355	7.1682325	0.6493352	0.5323556	0.79531	-6.21358
LOC1009965	0.0435606	7.1232822	0.6492846	0.5323869	0.79531	-6.213614
EFNA4	0.0527099	7.7763133	0.6490364	0.5325401	0.79535	-6.21378
FAM163B	-0.047497	6.8796015	-0.649016	0.5325526	0.79535	-6.213794
IQSEC2	0.0634558	6.9507036	0.6489738	0.5325787	0.79535	-6.213822
IRAK3	0.0454692	6.8704473	0.6485333	0.5328507	0.79567	-6.214118
FATE1	0.0576166	6.7998005	0.6484549	0.5328992	0.79567	-6.21417
MIR599	0.0504385	7.4087515	0.6482966	0.532997	0.79569	-6.214277
FAM175B	-0.092028	9.6049156	-0.648222	0.5330432	0.79569	-6.214327
CCT3	0.0509214	11.458183	0.6481659	0.5330777	0.79569	-6.214364
LAIR1	-0.048442	10.79961	-0.648017	0.5331695	0.79573	-6.214464
CAGE1	0.0478246	6.8254468	0.6478747	0.5332576	0.79573	-6.214559
CAPSL	-0.072006	7.1096241	-0.647854	0.5332701	0.79573	-6.214573
SPPL2A	0.0462998	9.1417961	0.6477148	0.5333564	0.79576	-6.214666
MUC6	0.0473009	7.0009912	0.6475587	0.5334529	0.79576	-6.214771
PPM1L	0.0457493	6.7907179	0.6473974	0.5335525	0.79576	-6.214879
RARRES1	-0.043193	6.8167893	-0.647323	0.5335988	0.79576	-6.214929
CLK2P1	-0.048365	6.9190995	-0.647315	0.5336032	0.79576	-6.214933
LOC731075	0.0537929	6.9816322	0.6472852	0.5336219	0.79576	-6.214954
SMARCD2	0.0799912	8.9790286	0.6472081	0.5336696	0.79576	-6.215005
ARPC5L	0.0549679	9.7368378	0.6470615	0.5337602	0.79581	-6.215103
FBXO11	0.0468477	8.2686827	0.6464607	0.5341317	0.79616	-6.215505
SRPK2	0.0441718	7.2756328	0.646437	0.5341463	0.79616	-6.215521
SLIT2	-0.053341	6.9501097	-0.64635	0.5342001	0.79616	-6.215579
REL	0.0655778	7.579964	0.6463365	0.5342085	0.79616	-6.215588
ZNF605	-0.056136	7.2143853	-0.64624	0.5342679	0.79617	-6.215652
MARK4	0.0631613	6.9599932	0.6454969	0.534728	0.79673	-6.216149
ALDOB	0.0629622	6.9260845	0.6454029	0.5347861	0.79673	-6.216212
CCDC113	-0.051154	6.9187735	-0.645367	0.5348083	0.79673	-6.216236
ACSL3	0.0494191	8.2127053	0.6449526	0.5350649	0.79701	-6.216512

RIF1	-0.072246	7.602302	-0.644884	0.5351072	0.79701	-6.216558
MLKL	-0.049489	6.8342478	-0.644746	0.535193	0.79706	-6.21665
SLC1A4	0.0544738	7.49187	0.6445295	0.5353269	0.79706	-6.216794
DYNC1LI1	-0.040883	6.9916695	-0.644487	0.5353534	0.79706	-6.216823
TMEM99	0.0486582	8.069812	0.6444463	0.5353784	0.79706	-6.21685
ZNF16	0.0450436	7.8357159	0.6443868	0.5354152	0.79706	-6.216889
MYO6	-0.057789	6.8081625	-0.644123	0.5355785	0.79722	-6.217065
PTPN13	0.0472513	6.7978756	0.6439043	0.5357141	0.79724	-6.217211
UTP15	-0.049241	8.5476246	-0.643841	0.5357531	0.79724	-6.217253
SH3PXD2B	-0.054596	6.8231009	-0.643841	0.5357533	0.79724	-6.217253
NCOA1	0.0479584	7.8920389	0.643659	0.5358661	0.79724	-6.217374
DCAF4L1	-0.067057	7.0567128	-0.643529	0.5359467	0.79724	-6.217461
SHTN1	-0.046093	6.7233091	-0.643505	0.5359614	0.79724	-6.217477
GPAT4	-0.047417	7.0033736	-0.643491	0.5359702	0.79724	-6.217486
SIVA1	0.0414853	10.256069	0.6432545	0.5361168	0.79737	-6.217643
LINC01278	-0.051388	7.9995533	-0.642648	0.536493	0.7977	-6.218047
KRTAP10-2	0.0433215	7.1097261	0.6426006	0.5365222	0.7977	-6.218078
TCF25	-0.065354	10.894845	-0.64259	0.5365286	0.7977	-6.218085
C3orf35	-0.044566	6.9970816	-0.642549	0.5365545	0.7977	-6.218113
FGL2	-0.04616	6.9794973	-0.642243	0.536744	0.79783	-6.218316
NPIPB13	0.1322004	9.7394412	0.6422352	0.5367488	0.79783	-6.218321
NMRAL1	0.0726366	10.615418	0.642108	0.5368277	0.79786	-6.218406
DCBLD2	-0.054573	7.3808997	-0.641594	0.5371464	0.79822	-6.218747
BTN2A3P	0.0424177	6.8094058	0.6415468	0.5371759	0.79822	-6.218778
PYROXD1	0.0582406	7.2042584	0.6414193	0.537255	0.79825	-6.218863
OPLAH	-0.053035	6.726542	-0.64119	0.5373973	0.79826	-6.219015
ZMYND12	-0.043403	6.8457677	-0.641189	0.5373983	0.79826	-6.219016
PAMR1	-0.043723	6.8631873	-0.641069	0.5374724	0.79826	-6.219095
DEPDC4	-0.046932	6.9850271	-0.64106	0.5374783	0.79826	-6.219102
SGCB	0.041822	7.1446226	0.6408216	0.5376261	0.7984	-6.219259
ADORA1	0.0426158	7.1572789	0.6407159	0.5376917	0.79841	-6.21933
NCS1	-0.05262	6.958972	-0.640548	0.5377961	0.79846	-6.219441
REEP5	-0.078498	9.2388405	-0.640491	0.5378311	0.79846	-6.219478
MSH6	-0.055497	11.323003	-0.640348	0.5379203	0.79848	-6.219574
PPIG	-0.063948	7.6734014	-0.640272	0.5379674	0.79848	-6.219624
NAP1L2	0.0583252	7.1021217	0.6402062	0.5380082	0.79848	-6.219667
DNAJC5B	0.056973	6.973679	0.6397982	0.5382617	0.79877	-6.219938
POLR3B	0.0717462	9.3547714	0.6396538	0.5383514	0.79882	-6.220033
ZNF513	-0.049016	7.1294343	-0.639246	0.5386049	0.79912	-6.220303
DYDC2	-0.070328	7.0907267	-0.639059	0.5387213	0.79921	-6.220427
THADA	0.0493582	7.7641521	0.6388784	0.5388333	0.7993	-6.220546
FGFR4	0.0546844	7.2836166	0.63867	0.5389629	0.79933	-6.220684
BCL11A	0.0445882	9.1829699	0.6386481	0.5389765	0.79933	-6.220698

MUTYH	-0.04561	7.8305856	-0.638581	0.5390181	0.79933	-6.220743
TIGD6	-0.05849	7.0176331	-0.638342	0.5391666	0.79934	-6.220901
STK32C	0.0411005	6.9840455	0.6381853	0.5392643	0.79934	-6.221004
CATSPERE	-0.0552	6.8734493	-0.638179	0.539268	0.79934	-6.221008
OPRM1	0.064542	6.9052357	0.6381473	0.5392879	0.79934	-6.221029
MCOLN3	0.046024	6.8388011	0.6380371	0.5393565	0.79934	-6.221102
CD207	0.0470439	6.9405733	0.6380356	0.5393574	0.79934	-6.221103
PDIK1L	-0.074745	7.9000958	-0.637877	0.5394563	0.79941	-6.221208
FAM168B	0.0474404	8.6490988	0.6376707	0.5395844	0.79952	-6.221344
EDEM3	-0.052676	7.8586633	-0.637575	0.5396441	0.79952	-6.221407
FOXD2-AS1	0.0652758	7.3960393	0.6374822	0.5397017	0.79953	-6.221469
TNFAIP8	0.0556396	7.7779783	0.6373098	0.539809	0.79957	-6.221582
TAPBPL	-0.089019	7.7885598	-0.637039	0.5399777	0.79957	-6.221761
PTPRU	0.040919	6.9356299	0.6369306	0.540045	0.79957	-6.221832
DPH7	-0.060714	7.3838295	-0.636917	0.5400535	0.79957	-6.221841
MGAT4A	0.0516469	7.0649921	0.6368781	0.5400777	0.79957	-6.221867
ETV4	0.0474898	6.8612998	0.6368601	0.5400889	0.79957	-6.221879
CABLES2	0.0520665	7.7463253	0.6368064	0.5401224	0.79957	-6.221914
BCHE	0.0425065	6.8264004	0.6367314	0.5401691	0.79957	-6.221964
BRCA1	-0.053632	7.4636591	-0.63653	0.5402944	0.7996	-6.222097
POFUT2	0.0450215	7.5591044	0.6365199	0.5403008	0.7996	-6.222103
ING1	0.0387543	7.3883659	0.6361674	0.5405202	0.79977	-6.222335
C8orf58	-0.041448	6.814669	-0.635785	0.5407583	0.79977	-6.222587
C3orf22	0.040574	6.9568028	0.6357712	0.5407671	0.79977	-6.222596
HCFC1R1	0.0603427	8.6994294	0.6357599	0.5407741	0.79977	-6.222604
RIOK1	-0.046439	8.5439255	-0.635759	0.5407744	0.79977	-6.222604
LINC01960	-0.045534	6.8788118	-0.635743	0.5407847	0.79977	-6.222615
GDPD2	-0.049339	6.9117791	-0.6357	0.5408116	0.79977	-6.222643
MBD4	0.0945255	9.4427133	0.6356326	0.5408534	0.79977	-6.222688
NEXN	0.0506197	6.9094885	0.6351104	0.5411788	0.79999	-6.223031
SLC30A5	-0.047654	8.3259105	-0.635109	0.5411794	0.79999	-6.223032
PRPS1	-0.047918	10.477233	-0.634946	0.5412813	0.79999	-6.223139
ETFB	0.0531073	10.595249	0.6349297	0.5412915	0.79999	-6.22315
FCGRT	0.0414523	7.5461655	0.6347704	0.5413907	0.79999	-6.223255
DPY19L1	0.0557418	8.4495385	0.6346575	0.5414612	0.79999	-6.223329
EML3	-0.088285	9.5607539	-0.634635	0.5414751	0.79999	-6.223344
HIST1H4H	0.0559289	7.3988561	0.6345562	0.5415243	0.79999	-6.223396
DPYD	-0.055155	7.708981	-0.634529	0.5415414	0.79999	-6.223414
ABCC10	-0.049654	6.9779762	-0.63452	0.5415467	0.79999	-6.223419
KCNN2	0.0421603	6.8382599	0.6343521	0.5416516	0.80006	-6.22353
USP40	-0.040746	6.8163388	-0.634181	0.5417585	0.80014	-6.223642
ZBTB8A	-0.061168	7.1420084	-0.63394	0.5419085	0.80022	-6.2238
PCDHAC2	-0.044687	6.9311677	-0.633919	0.5419214	0.80022	-6.223814

KIF26B	0.0435081	6.9735884	0.6336058	0.5421171	0.80036	-6.22402
GFER	0.0459399	6.9548799	0.6335907	0.5421265	0.80036	-6.22403
GABPB2	-0.058613	9.9802924	-0.633212	0.5423631	0.80063	-6.224278
ADCY1	0.0394132	6.8147623	0.6330148	0.5424859	0.80073	-6.224407
CDK2	-0.041942	8.8281806	-0.632522	0.5427934	0.8011	-6.22473
ADAMTSL4	0.0396012	6.8092137	0.6323937	0.5428736	0.80113	-6.224814
ZKSCAN1	0.0592419	6.8793964	0.6323151	0.5429227	0.80113	-6.224866
KLHL15	-0.044474	6.8569785	-0.632104	0.5430548	0.80124	-6.225005
FAM118B	-0.048151	7.5167579	-0.631912	0.5431746	0.80134	-6.22513
ITIH1	-0.060503	6.9920491	-0.631497	0.5434337	0.80164	-6.225402
WDR74	-0.075249	7.9169862	-0.631158	0.5436453	0.80187	-6.225623
FER1L5	0.0399788	7.0217192	0.6309625	0.5437677	0.80191	-6.225751
TCFL5	-0.054497	8.5082892	-0.630937	0.5437836	0.80191	-6.225768
SLC7A1	0.0585434	10.764277	0.6308277	0.5438519	0.80191	-6.225839
TREX2	0.0455303	6.833904	0.6307528	0.5438988	0.80191	-6.225888
EMX1	0.0433127	6.7938749	0.6306796	0.5439446	0.80191	-6.225936
TULP4	0.0573088	7.7717622	0.6303911	0.5441249	0.80206	-6.226125
TLR2	0.0434613	6.6968714	0.6303408	0.5441564	0.80206	-6.226157
HSD3B7	0.0416453	6.8878742	0.6301997	0.5442446	0.80211	-6.22625
SCARF2	0.0525217	6.9309313	0.6298298	0.5444759	0.80218	-6.226491
ZWILCH	-0.042831	8.4485685	-0.629799	0.5444951	0.80218	-6.226511
PJA2	-0.097989	11.107425	-0.629661	0.5445813	0.80218	-6.226601
MIR665	0.0437955	6.8770102	0.6295499	0.544651	0.80218	-6.226674
EPB41L1	0.047217	6.949521	0.6294967	0.5446843	0.80218	-6.226708
BOLA2B	0.0440302	6.9994893	0.629422	0.5447311	0.80218	-6.226757
LCA5L	0.0470395	6.8176469	0.6294102	0.5447384	0.80218	-6.226765
THAP10	0.0404213	6.7261869	0.6294012	0.544744	0.80218	-6.226771
CHKB-AS1	0.0397258	6.934934	0.6293083	0.5448022	0.80218	-6.226831
ZNF830	-0.053222	8.4205571	-0.629229	0.5448519	0.80218	-6.226883
TPD52	-0.044669	8.4643431	-0.629044	0.5449678	0.80218	-6.227004
MPG	0.0416836	6.8856545	0.6289592	0.5450207	0.80218	-6.227059
GTPBP10	0.0473475	7.2995584	0.628941	0.5450321	0.80218	-6.227071
PCDHA4	0.0863791	6.9479852	0.6288017	0.5451192	0.80218	-6.227162
VEGFC	-0.045439	6.8217707	-0.62878	0.5451331	0.80218	-6.227176
GATA2	0.0457137	6.8389457	0.6287118	0.5451755	0.80218	-6.22722
IFIT2	0.0775105	7.8682119	0.6284131	0.5453625	0.80238	-6.227415
ALDH9A1	-0.05295	11.754563	-0.628271	0.5454517	0.80243	-6.227508
FBXO30	0.0607243	8.1080917	0.62813	0.5455398	0.80247	-6.227599
WASHC2C	0.0422264	7.2200239	0.6279526	0.5456509	0.80249	-6.227715
SLC22A6	-0.043278	6.9931585	-0.627933	0.5456629	0.80249	-6.227727
ADGRL1	0.0556826	6.8368488	0.6275936	0.5458757	0.80273	-6.227948
FOXO6	0.0441518	7.1115137	0.6274901	0.5459406	0.80274	-6.228016
GANC	0.0415719	6.7999085	0.6271278	0.5461675	0.80297	-6.228251

AGAP2	0.0467877	6.9804323	0.6269556	0.5462755	0.80297	-6.228363
OTX1	0.0526912	6.8108943	0.6269291	0.5462921	0.80297	-6.228381
HERPUD1	-0.062504	10.989774	-0.626862	0.5463344	0.80297	-6.228424
ZNF214	0.058467	6.8713392	0.6267016	0.5464346	0.80297	-6.228528
TBL1X	-0.044158	9.229557	-0.62661	0.5464918	0.80297	-6.228588
ZNF174	-0.045256	7.2047092	-0.626562	0.5465224	0.80297	-6.228619
SMG5	0.0699153	10.07462	0.6265352	0.546539	0.80297	-6.228636
THEMIS	-0.057832	6.7343301	-0.626342	0.5466598	0.80304	-6.228762
SPATA2	0.0523531	7.5398672	0.6262884	0.5466937	0.80304	-6.228797
FXYD1	0.0413068	7.0501729	0.6261565	0.5467764	0.80305	-6.228882
TRIM58	0.0401505	6.9417022	0.6261039	0.5468094	0.80305	-6.228917
CMPK2	-0.0449	6.8381056	-0.6259	0.5469375	0.80313	-6.229049
GPBP1	0.0540837	8.4682862	0.6258388	0.5469756	0.80313	-6.229089
HLA-DRB5	-0.058409	7.1991994	-0.62514	0.5474141	0.80369	-6.229542
RPL18	-0.070328	14.26979	-0.624851	0.5475953	0.80383	-6.229729
LRRCC1	-0.054746	7.3689184	-0.624815	0.5476179	0.80383	-6.229752
LINC01565	0.0480573	6.9085433	0.624732	0.54767	0.80383	-6.229806
WDR83	-0.06089	8.2399601	-0.62463	0.5477342	0.80383	-6.229872
DNAJA2	-0.041881	11.57101	-0.624549	0.5477851	0.80383	-6.229925
SYCE1L	0.0530052	6.937539	0.624458	0.547842	0.80384	-6.229984
BAG5	0.0459814	8.3328994	0.6243183	0.5479297	0.80388	-6.230074
IL6ST	0.0520512	7.8898067	0.6241169	0.5480562	0.80399	-6.230205
LINC00452	-0.070805	7.2577566	-0.623763	0.5482786	0.80405	-6.230434
FLYWCH1	-0.043027	7.0726106	-0.623642	0.5483547	0.80405	-6.230512
EID2	-0.043033	8.4384077	-0.623634	0.5483591	0.80405	-6.230517
RNF212	0.0406466	6.9236199	0.6236193	0.5483686	0.80405	-6.230527
MPHOSPH9	-0.043714	7.9796941	-0.623608	0.548376	0.80405	-6.230534
YEATS2	0.0644779	9.5037944	0.6234295	0.5484879	0.80414	-6.230649
MTMR8	0.042399	7.0297107	0.623339	0.5485447	0.80414	-6.230708
CGGBP1	-0.04354	9.6665645	-0.623207	0.5486274	0.80417	-6.230793
TFG	0.0402443	8.6367059	0.6231252	0.5486791	0.80417	-6.230846
CCR8	-0.041969	6.8411085	-0.622849	0.5488523	0.80429	-6.231024
RBBP8NL	0.0420856	6.9952665	0.622795	0.5488865	0.80429	-6.231059
LRRC46	0.0509501	6.8915814	0.6227366	0.5489232	0.80429	-6.231097
BPY2C	0.0437969	6.7358948	0.6223455	0.5491691	0.80451	-6.23135
EMSY	0.0443209	6.9041903	0.622324	0.5491826	0.80451	-6.231364
RTKN	-0.039212	6.888188	-0.622206	0.5492566	0.80452	-6.23144
PGBD4	-0.049768	7.0292619	-0.622138	0.5492998	0.80452	-6.231484
NUDT1	0.0511939	8.8399821	0.6219436	0.5494217	0.80462	-6.231609
S100PBP	-0.039279	7.9174626	-0.621737	0.5495517	0.80473	-6.231743
RFC1	0.0622925	8.5958505	0.6215791	0.5496509	0.80473	-6.231844
ATP8B1	-0.041565	6.8150249	-0.621317	0.5498155	0.80473	-6.232013
AEBP1	0.044434	6.8669855	0.6212784	0.5498401	0.80473	-6.232038

TMEM42	-0.040523	7.1653122	-0.621204	0.5498869	0.80473	-6.232086
SOAT2	0.0576852	6.980394	0.6211684	0.5499093	0.80473	-6.232109
GLTPD2	-0.040564	6.7982234	-0.621146	0.5499237	0.80473	-6.232124
OVCA2	-0.041485	6.9054043	-0.621122	0.5499385	0.80473	-6.232139
CCL15	-0.046601	6.9292718	-0.620791	0.5501468	0.80495	-6.232352
ZNF121	-0.072906	7.2114087	-0.620601	0.5502661	0.80504	-6.232474
LRRC3DN	0.0400606	6.7671312	0.6205016	0.5503289	0.80504	-6.232539
TRIM50	-0.057948	6.8691768	-0.620351	0.5504239	0.80504	-6.232636
VDAC1	0.0723003	12.664155	0.6203417	0.5504295	0.80504	-6.232642
GP1BA	0.0484013	7.8486012	0.6197709	0.5507889	0.80549	-6.233009
PPP2R5B	-0.046743	7.0428388	-0.61957	0.5509154	0.80552	-6.233138
POP1	0.0540412	8.6915639	0.6195573	0.5509234	0.80552	-6.233146
CDC42BPB	0.0429972	6.7955564	0.6192216	0.5511348	0.80554	-6.233362
PNPLA3	-0.047052	6.8323602	-0.619196	0.5511512	0.80554	-6.233379
SNORA84	0.0474116	7.4087994	0.6191864	0.551157	0.80554	-6.233385
RBM26	0.042544	8.612883	0.6189837	0.5512847	0.80554	-6.233515
LIMA1	0.069767	7.2047791	0.6189805	0.5512867	0.80554	-6.233517
MFAP3	0.0378664	7.9511512	0.6189448	0.5513092	0.80554	-6.23354
SDSL	0.0513077	6.8931393	0.6189048	0.5513344	0.80554	-6.233566
NFE2L3	-0.04103	9.3606101	-0.618835	0.5513784	0.80554	-6.23361
RLBP1	0.0681861	6.8884009	0.6186063	0.5515225	0.80561	-6.233757
IVL	-0.071289	6.9740676	-0.618589	0.5515332	0.80561	-6.233768
CCDC94	-0.055004	8.5098952	-0.6184	0.5516522	0.80563	-6.233889
RHOH	-0.064542	8.6292786	-0.618388	0.5516602	0.80563	-6.233898
GYS1	0.0588291	7.3691252	0.6179928	0.5519092	0.80569	-6.234151
MMS22L	0.0439849	7.0738994	0.6179799	0.5519173	0.80569	-6.234159
AKR1D1	-0.060682	9.8422984	-0.617963	0.5519281	0.80569	-6.23417
HENMT1	0.0495036	7.2665119	0.6179182	0.5519562	0.80569	-6.234199
TRIP12	0.0967325	9.2739567	0.6177346	0.552072	0.80569	-6.234317
RAB32	0.0432146	6.7632336	0.6177078	0.5520889	0.80569	-6.234334
ZNF669	0.0381952	7.6261662	0.6176758	0.5521091	0.80569	-6.234354
CEBPD	0.042967	6.803128	0.6175482	0.5521895	0.80569	-6.234436
LGALS3BP	0.0426018	6.8341909	0.617539	0.5521953	0.80569	-6.234442
MIR450A1	-0.058552	6.9803076	-0.617363	0.5523061	0.80577	-6.234555
MAST1	-0.063234	6.9839284	-0.617248	0.552379	0.80579	-6.234629
ZNF131	0.0770508	7.4302535	0.6168033	0.5526594	0.80601	-6.234913
RPS14	0.0432258	13.839985	0.6167858	0.5526704	0.80601	-6.234925
DSCR10	0.0514426	6.9797167	0.6166765	0.5527394	0.80601	-6.234995
CWC22	-0.042391	6.9939213	-0.616659	0.5527503	0.80601	-6.235006
PIK3R4	0.0461018	7.7502312	0.6163175	0.552966	0.80625	-6.235224
PBRM1	0.0391788	7.5961497	0.6161245	0.5530878	0.80634	-6.235348
PDE4DIP	-0.041388	6.8202804	-0.615704	0.5533533	0.80665	-6.235617
MCTP1	0.0539205	7.5614972	0.6155927	0.5534235	0.80667	-6.235688

GP5	-0.042941	6.8799601	-0.615398	0.5535465	0.80677	-6.235812
KIAA1549L	0.0780758	7.8648937	0.6152345	0.5536497	0.80684	-6.235917
MIR635	0.0627385	6.8843431	0.615134	0.5537132	0.80685	-6.235981
SLC15A2	-0.044596	6.923111	-0.614741	0.5539611	0.80713	-6.236232
HIRIP3	-0.079327	9.0149264	-0.614532	0.5540936	0.80725	-6.236366
IVD	0.0544498	7.3458451	0.6144029	0.554175	0.80728	-6.236448
SNRPD1	-0.061964	9.1296936	-0.614132	0.5543462	0.80732	-6.236621
ARHGAP35	0.0386685	6.9347552	0.6141212	0.5543531	0.80732	-6.236628
ATP8B4	-0.045507	6.8805914	-0.614083	0.5543775	0.80732	-6.236652
PKDREJ	0.0493291	6.9264883	0.6140168	0.554419	0.80732	-6.236694
DDX23	0.0519607	8.2729406	0.6132698	0.5548913	0.80792	-6.23717
KIF18A	-0.067746	7.7937906	-0.613023	0.5550477	0.80793	-6.237328
GALNT12	-0.041473	7.5150145	-0.613011	0.5550551	0.80793	-6.237335
VN1R17P	0.0493613	6.8491186	0.6129521	0.5550922	0.80793	-6.237372
FCGR1A	-0.050671	6.7907445	-0.612919	0.5551135	0.80793	-6.237394
SAR1B	-0.041781	8.4907485	-0.612826	0.5551719	0.80793	-6.237453
KIAA1958	0.0426916	7.259423	0.6126925	0.5552565	0.80795	-6.237538
LACTB2	0.0386761	6.7051203	0.6126298	0.5552962	0.80795	-6.237578
FAM46C	0.0484947	6.9087301	0.6121048	0.5556283	0.80817	-6.237912
RTL6	0.0429051	6.8906839	0.6121023	0.5556299	0.80817	-6.237913
PRR20D	0.0508673	6.9983628	0.6119075	0.5557533	0.80817	-6.238037
SLC35A2	0.0399198	7.5495895	0.6115274	0.5559939	0.80817	-6.238279
ALG12	0.0404376	7.2112726	0.611506	0.5560074	0.80817	-6.238292
RARS	0.0419265	11.349068	0.6113454	0.5561091	0.80817	-6.238394
ZFR	-0.055842	10.129508	-0.611319	0.556126	0.80817	-6.238411
DDHD1	0.052841	6.9313469	0.6112628	0.5561614	0.80817	-6.238447
POLE4	0.0440407	11.347691	0.6111973	0.5562029	0.80817	-6.238488
PML	0.039936	6.9047468	0.6111374	0.5562408	0.80817	-6.238526
C21orf91	-0.043809	7.8043463	-0.611022	0.556314	0.80817	-6.2386
FOSB	0.0475611	7.3729292	0.6110159	0.5563177	0.80817	-6.238603
BATF3	-0.037145	6.7557648	-0.610977	0.5563421	0.80817	-6.238628
HTR2A	-0.070447	6.9326187	-0.610879	0.5564045	0.80817	-6.23869
ZNF550	-0.060465	7.6880926	-0.610784	0.5564646	0.80817	-6.238751
PORCN	0.0605005	7.254247	0.6107094	0.5565119	0.80817	-6.238798
ZMYND8	-0.041535	7.6071295	-0.610679	0.5565313	0.80817	-6.238817
ZMPSTE24	-0.059839	10.45338	-0.610663	0.5565413	0.80817	-6.238827
PPP3CC	-0.043285	8.9358747	-0.610662	0.5565418	0.80817	-6.238828
CTNND1	-0.04211	6.9109502	-0.610645	0.5565529	0.80817	-6.238839
DLGAP1-AS1	-0.048406	7.0880165	-0.610426	0.5566916	0.80829	-6.238978
BTNL10	0.0564494	7.7015582	0.610109	0.5568923	0.8085	-6.239179
ZSCAN31	0.0390812	6.8459242	0.6099929	0.5569658	0.80853	-6.239252
MGAM2	-0.051528	7.0446986	-0.609819	0.5570759	0.80853	-6.239363
IRF8	0.0642035	11.248252	0.6098185	0.5570764	0.80853	-6.239363

PSMB1	0.060421	12.930117	0.6096664	0.5571728	0.80858	-6.239459
FAHD2CP	0.0654755	7.2236361	0.6091025	0.5575303	0.80895	-6.239816
ZBTB16	-0.040188	6.8472582	-0.609093	0.5575366	0.80895	-6.239823
ZNF813	0.0578921	7.2515667	0.6089552	0.5576237	0.809	-6.23991
OMD	-0.04612	6.8581201	-0.608628	0.5578312	0.80922	-6.240117
RHOBTB3	-0.044842	6.7193173	-0.608361	0.5580007	0.80933	-6.240286
DEF8	0.0481033	9.2531642	0.6083289	0.558021	0.80933	-6.240306
KPNB1	0.048283	11.942029	0.6080356	0.558207	0.80952	-6.240491
OSBPL3	0.0450485	7.9430209	0.6078106	0.5583499	0.80961	-6.240633
CHRNA6	-0.042124	7.6368604	-0.60777	0.5583754	0.80961	-6.240659
NPC2	-0.060077	11.285837	-0.607514	0.558538	0.8097	-6.240821
ATPAF2	-0.052889	8.1595192	-0.607389	0.5586175	0.8097	-6.2409
ZNF644	0.0687188	8.0313323	0.6073233	0.5586592	0.8097	-6.240941
MYO1F	-0.050569	6.7478007	-0.607231	0.5587178	0.8097	-6.241
C7orf13	0.0502637	7.04688	0.6072309	0.5587178	0.8097	-6.241
RBM41	-0.048745	7.2891848	-0.606837	0.5589681	0.8099	-6.241248
C12orf66	-0.086663	8.0991254	-0.606837	0.5589681	0.8099	-6.241248
CORO1B	-0.048193	7.1774905	-0.606706	0.5590512	0.80994	-6.241331
ST8SIA4	0.0457073	7.4156517	0.6066236	0.5591035	0.80994	-6.241383
C4orf36	0.042291	6.7777657	0.606533	0.559161	0.80994	-6.24144
F8A2	-0.04267	7.0355245	-0.606403	0.5592438	0.80998	-6.241522
DEFB4A	-0.070514	6.8843322	-0.606266	0.5593306	0.80999	-6.241608
RAP2A	0.084346	9.6909524	0.6061737	0.5593892	0.80999	-6.241666
S100A13	0.0375773	7.1467296	0.6061185	0.5594243	0.80999	-6.241701
DXO	-0.061276	8.0046983	-0.606045	0.5594713	0.80999	-6.241748
PPP4R1L	-0.063101	6.9415855	-0.605931	0.5595436	0.81001	-6.241819
SPESP1	-0.051284	6.8127709	-0.605681	0.5597021	0.81009	-6.241976
PLG	-0.055043	7.0179961	-0.605675	0.559706	0.81009	-6.24198
HOXB2	0.0385766	6.8258116	0.6051719	0.5600259	0.81041	-6.242297
MAP2K3	0.0397209	8.0644098	0.6051461	0.5600423	0.81041	-6.242313
AK5	-0.043478	6.9395318	-0.604942	0.5601718	0.81052	-6.242442
RAB35	0.0481141	9.3563898	0.6046386	0.560365	0.81064	-6.242633
HPSE	0.040818	6.9093306	0.6046359	0.5603667	0.81064	-6.242634
ZW10	-0.069874	9.8694161	-0.603911	0.5608278	0.81123	-6.24309
MRPL9	-0.077045	8.4802758	-0.603738	0.5609382	0.81131	-6.243199
C4orf46	-0.055902	8.1787246	-0.603606	0.5610221	0.81135	-6.243282
H3F3AP4	0.046641	11.024146	0.6033834	0.5611636	0.81142	-6.243421
TTC1	-0.057406	9.1658925	-0.60335	0.5611846	0.81142	-6.243442
WDR91	0.047975	8.0864041	0.6031796	0.5612933	0.8115	-6.243549
DUSP22	0.05105	10.392155	0.6030408	0.5613816	0.81155	-6.243636
ZNF320	-0.056536	8.485003	-0.602732	0.5615784	0.81173	-6.24383
NSF	-0.038047	8.967834	-0.602657	0.5616261	0.81173	-6.243877
MAN1A2	0.0530518	7.3403996	0.6025817	0.5616739	0.81173	-6.243924

ZCCHC4	0.0652076	7.1251533	0.6022241	0.5619017	0.81194	-6.244148
FKBP4	0.0594997	11.229525	0.6021214	0.5619671	0.81194	-6.244212
BIK	0.067858	9.0983302	0.6020768	0.5619955	0.81194	-6.24424
ATP6AP2	-0.064629	10.728617	-0.601973	0.5620615	0.81194	-6.244305
SLC12A4	0.0573863	7.017096	0.6019089	0.5621025	0.81194	-6.244345
WDR97	-0.0522	7.0713266	-0.601747	0.5622058	0.81201	-6.244447
SLC6A5	0.056349	6.9355915	0.6013466	0.5624607	0.8123	-6.244697
RALGAPA1	0.0536024	8.2550173	0.6010468	0.5626519	0.8125	-6.244885
NDUFA1	-0.076965	12.785002	-0.60052	0.5629874	0.81272	-6.245214
OR2C1	0.0445777	6.8585853	0.6005204	0.5629875	0.81272	-6.245214
SLC9A2	-0.062604	7.0274565	-0.600455	0.5630294	0.81272	-6.245255
ZNF429	-0.052658	6.9676936	-0.60045	0.5630323	0.81272	-6.245258
SBNO1	-0.045802	7.4153808	-0.60031	0.5631216	0.81272	-6.245345
OR2T12	0.0552458	7.0030608	0.6002791	0.5631413	0.81272	-6.245365
RCAN2	0.0545292	6.9876868	0.5997803	0.5634594	0.81303	-6.245676
PRR12	-0.055174	6.9371192	-0.59968	0.5635235	0.81303	-6.245739
MIR642A	0.0587623	7.086516	0.5996644	0.5635334	0.81303	-6.245748
SLITRK4	-0.04296	6.7925439	-0.599599	0.5635749	0.81303	-6.245789
RAB2B	-0.060798	10.349875	-0.599181	0.5638418	0.81329	-6.24605
PHLDB3	0.0491734	7.1458595	0.5991381	0.5638692	0.81329	-6.246077
WDR17	-0.040149	6.9054339	-0.599011	0.56395	0.81333	-6.246156
LMNTD2	0.0497363	6.8010169	0.598902	0.5640199	0.81335	-6.246224
ASTN2	-0.041319	7.080191	-0.598782	0.5640966	0.81337	-6.246299
ATP2B1	-0.089684	7.6555278	-0.598703	0.5641472	0.81337	-6.246348
NCLN	-0.07408	10.281294	-0.598549	0.5642451	0.81341	-6.246444
C14orf80	-0.067759	9.2363244	-0.598481	0.5642885	0.81341	-6.246486
ZWINT	-0.037269	7.6276307	-0.598211	0.5644614	0.81358	-6.246655
CUEDC2	0.0828968	10.337827	0.5980999	0.564532	0.8136	-6.246723
AHCYL1	0.0824404	10.140838	0.597761	0.5647485	0.81383	-6.246934
CNN3	-0.039521	6.7812022	-0.597578	0.5648652	0.81386	-6.247048
SPEF2	0.0385316	6.9028477	0.5975561	0.5648794	0.81386	-6.247062
CBWD7	-0.041583	7.021124	-0.597472	0.5649328	0.81386	-6.247114
MRC2	-0.042902	6.8060179	-0.597207	0.5651021	0.81395	-6.247279
LIF	0.0431357	6.9545414	0.5971939	0.5651108	0.81395	-6.247287
KAT6B	0.0438266	7.1021981	0.5970125	0.5652267	0.81404	-6.2474
RAP2B	-0.040605	6.9215816	-0.59688	0.5653115	0.81408	-6.247482
RAB7A	0.0571192	11.286098	0.5964113	0.565611	0.81437	-6.247773
PLAGL1	-0.038733	6.8617956	-0.596394	0.5656221	0.81437	-6.247784
SFRP2	0.0426673	6.7587007	0.5961755	0.5657617	0.81449	-6.24792
DPRXP4	0.03661	6.8470638	0.5960598	0.5658357	0.81452	-6.247991
BMP8A	-0.039314	6.8128863	-0.595409	0.5662522	0.81476	-6.248395
SLAIN2	0.0640877	7.335217	0.5953351	0.5662992	0.81476	-6.248441
MIR124-2HG	-0.040445	6.8648383	-0.595306	0.5663177	0.81476	-6.248459

TAS2R41	-0.038972	6.9929024	-0.595186	0.5663949	0.81476	-6.248533
SHISA4	0.038197	6.9427446	0.595181	0.5663978	0.81476	-6.248536
ZADH2	0.05598	7.3875957	0.5950829	0.5664606	0.81476	-6.248597
ISL2	0.0413458	7.0262546	0.5950127	0.5665055	0.81476	-6.248641
BCCIP	-0.057801	9.307537	-0.59494	0.5665517	0.81476	-6.248685
SLC25A40	-0.045891	7.7833994	-0.594926	0.5665608	0.81476	-6.248694
DUSP3	-0.043171	6.7513331	-0.594904	0.5665753	0.81476	-6.248708
UCA1	0.051778	6.9762609	0.5948061	0.5666377	0.81476	-6.248769
DBNDD1	-0.037805	7.0704644	-0.59475	0.5666736	0.81476	-6.248803
PIGL	0.0463825	6.9379872	0.5946328	0.5667486	0.81478	-6.248876
NFIC	0.0369014	6.8716826	0.594447	0.5668676	0.8148	-6.248991
TRIM5	-0.03727	7.3229966	-0.594437	0.5668742	0.8148	-6.248997
SLC7A7	-0.042759	7.6709876	-0.594259	0.566988	0.81483	-6.249107
OTC	-0.043994	6.7812121	-0.594201	0.5670247	0.81483	-6.249143
CHML	-0.043177	7.0530257	-0.594064	0.567113	0.81483	-6.249228
DAZAP2	-0.071941	11.815363	-0.59406	0.5671155	0.81483	-6.249231
IFNAR1	0.0625404	8.0714102	0.59378	0.5672946	0.81501	-6.249404
YWHAB	0.0384813	10.760166	0.5935735	0.5674268	0.81511	-6.249531
DUS4L	-0.06397	8.7893632	-0.593452	0.5675047	0.81511	-6.249606
NLRC4	-0.044426	6.8850421	-0.593326	0.5675853	0.81511	-6.249684
RPS6KA2	-0.037373	6.8205704	-0.593267	0.5676229	0.81511	-6.24972
TMPO	0.0485772	7.6065478	0.5932382	0.5676416	0.81511	-6.249738
SAMM50	0.0479555	10.956622	0.5929627	0.5678182	0.81526	-6.249909
ST8SIA5	0.0475553	6.8353696	0.5928928	0.5678629	0.81526	-6.249952
SCRIB	-0.042859	7.9067619	-0.592692	0.5679917	0.81537	-6.250076
FUT4	-0.041148	6.8210832	-0.59225	0.5682748	0.81569	-6.250348
CALU	0.0518725	8.7167095	0.5919919	0.5684404	0.81585	-6.250508
SDE2	0.0476717	8.730392	0.5918081	0.5685582	0.81594	-6.250621
RECQL4	0.0689063	7.428636	0.5916504	0.5686593	0.81594	-6.250718
PCSK6	-0.058848	6.8543755	-0.591637	0.5686681	0.81594	-6.250727
FCGR3B	0.0396598	7.7102822	0.5913853	0.5688293	0.81609	-6.250882
KDELC2	-0.039607	6.7772228	-0.591127	0.5689947	0.81613	-6.25104
FKBP10	-0.047824	6.8154811	-0.591047	0.5690462	0.81613	-6.25109
TEKT4P2	-0.040824	7.0673936	-0.591009	0.5690704	0.81613	-6.251113
6-Sep	0.0756988	8.6796974	0.590953	0.5691066	0.81613	-6.251148
SLC2A10	-0.037107	6.8169148	-0.590868	0.5691609	0.81613	-6.2512
ARRDC2	0.0423316	7.441469	0.5908146	0.5691954	0.81613	-6.251233
SEM1	0.0379221	10.383401	0.5907165	0.5692584	0.81614	-6.251293
ECHS1	-0.053236	10.692062	-0.590562	0.5693574	0.8162	-6.251388
TUBA1B	-0.071974	13.663059	-0.590416	0.5694513	0.81623	-6.251478
EXOC2	-0.043652	8.1573749	-0.590193	0.5695942	0.81623	-6.251615
TMEM80	-0.050117	7.8065271	-0.590119	0.5696416	0.81623	-6.251661
GDAP1	-0.043875	7.1599521	-0.590049	0.5696868	0.81623	-6.251704

OR9G1	0.0602664	6.9062504	0.5898768	0.5697973	0.81623	-6.25181
CLUL1	-0.04118	7.1027156	-0.589877	0.5697974	0.81623	-6.25181
ZNF444	0.0562613	8.0138857	0.5898715	0.5698007	0.81623	-6.251813
RASSF6	-0.043894	8.0092948	-0.589841	0.5698203	0.81623	-6.251832
SMARCA1	0.0362907	6.8093956	0.5895863	0.5699838	0.81638	-6.251988
TXNDC11	-0.055316	8.1276766	-0.589448	0.5700728	0.81643	-6.252073
SLC6A2	0.0462051	6.9238505	0.5890949	0.5702994	0.81667	-6.25229
KCNC4	-0.040463	6.8840677	-0.588729	0.5705342	0.81693	-6.252514
BRINP2	-0.042656	7.053809	-0.588586	0.5706262	0.81698	-6.252602
SNX20	0.044192	7.0036718	0.5883717	0.5707639	0.81704	-6.252734
HPCAL4	0.0389696	6.8018823	0.5883476	0.5707794	0.81704	-6.252748
RUSC2	0.0414517	6.8263774	0.5875671	0.5712811	0.81748	-6.253227
SLC27A2	-0.038501	6.801664	-0.587487	0.5713325	0.81748	-6.253276
C11orf49	0.0414731	7.3309998	0.5873907	0.5713945	0.81748	-6.253335
NAPA	0.0585263	7.5133604	0.5873556	0.5714171	0.81748	-6.253356
NR2F1	-0.055123	6.7451011	-0.587343	0.5714254	0.81748	-6.253364
FAM193A	0.0460319	8.0622112	0.5873406	0.5714267	0.81748	-6.253365
WHAMM	-0.037291	7.4055511	-0.587182	0.5715288	0.81755	-6.253463
ARL5A	0.060058	9.8266763	0.5869266	0.5716929	0.81767	-6.253619
GOLGA8F	-0.037821	6.7841788	-0.586801	0.5717737	0.81767	-6.253696
GNPAT	-0.037654	9.7084284	-0.586789	0.5717816	0.81767	-6.253703
ST6GAL1	-0.042295	9.3571304	-0.586432	0.5720114	0.8177	-6.253921
ARAP3	0.0372616	6.7815645	0.5862907	0.572102	0.8177	-6.254008
IDH3G	0.0624874	8.140975	0.5862107	0.5721535	0.8177	-6.254056
FAM219A	-0.047978	7.1555167	-0.586191	0.5721663	0.8177	-6.254069
PPEF1	0.0424665	6.8834429	0.5861715	0.5721787	0.8177	-6.25408
IL36A	0.0446511	6.7753929	0.5861529	0.5721907	0.8177	-6.254092
CCNT2	0.0478681	7.3560763	0.5860195	0.5722765	0.8177	-6.254173
PTPN4	-0.046807	7.9159087	-0.585915	0.5723437	0.8177	-6.254237
RABL3	0.0601699	8.3045121	0.5859098	0.5723471	0.8177	-6.25424
RAB11A	-0.078871	11.14484	-0.585847	0.5723878	0.8177	-6.254279
GSTM4	0.0368731	7.0985798	0.585801	0.5724172	0.8177	-6.254307
NUAK2	-0.039024	7.1168294	-0.585592	0.5725519	0.81781	-6.254435
TMEM159	-0.036186	7.5220546	-0.585434	0.5726532	0.81788	-6.254531
SLC25A5	-0.070807	14.053539	-0.585044	0.5729047	0.8181	-6.254769
IFT172	0.0369143	6.9139676	0.5849625	0.5729569	0.8181	-6.254818
CMAS	0.0480984	10.337693	0.5848766	0.5730123	0.8181	-6.254871
NECTIN3	0.042935	6.7919094	0.5848381	0.5730371	0.8181	-6.254894
GLB1L	0.0520893	7.0822329	0.5846462	0.5731606	0.81813	-6.255011
LILRA6	0.0368771	6.8267313	0.5845466	0.5732248	0.81813	-6.255072
CPNE2	-0.036339	6.8436036	-0.584543	0.5732269	0.81813	-6.255074
S100A11	0.0500504	6.8926752	0.5843454	0.5733544	0.81822	-6.255195
DNAJC22	0.0428263	6.793376	0.5842817	0.5733955	0.81822	-6.255233

SPNS1	-0.070951	9.1596537	-0.584105	0.5735096	0.81824	-6.255341
PPP2R2B	-0.037737	7.4450132	-0.584012	0.5735695	0.81824	-6.255398
WDR3	0.0450939	7.1866605	0.5839955	0.5735799	0.81824	-6.255408
METAP2	-0.063401	11.458889	-0.583626	0.573818	0.81847	-6.255633
ITM2C	0.0520996	7.1554491	0.5835655	0.5738569	0.81847	-6.255669
ZNF770	0.0589161	8.6169748	0.5833809	0.5739759	0.81856	-6.255782
CARD11	-0.072168	9.7030821	-0.583239	0.5740677	0.81861	-6.255868
GIPC1	-0.040241	6.8456035	-0.583044	0.5741931	0.81871	-6.255987
HLA-DPB2	0.0404172	6.9395664	0.5827567	0.5743784	0.8189	-6.256161
SLC9A7	0.0564884	7.6335681	0.5824682	0.5745645	0.81908	-6.256337
ASPG	-0.045024	6.9765162	-0.582308	0.5746677	0.81915	-6.256434
MAB21L3	-0.049642	6.8235091	-0.582188	0.574745	0.81917	-6.256507
PALLD	0.0543192	9.8929293	0.5821157	0.5747918	0.81917	-6.256551
HLA-DPB1	-0.045963	10.056123	-0.581911	0.5749241	0.81927	-6.256675
FCHSD1	-0.035722	6.857171	-0.581779	0.575009	0.81927	-6.256755
MAGI3	0.042747	6.7781375	0.5817404	0.5750339	0.81927	-6.256778
UPB1	-0.060235	7.6377258	-0.581569	0.5751446	0.81935	-6.256882
SNX32	0.0393892	6.9741789	0.5811653	0.5754051	0.81964	-6.257127
FJX1	-0.036833	6.8679228	-0.580671	0.5757242	0.82002	-6.257427
CNIH3	-0.037547	6.8733482	-0.580493	0.5758392	0.8201	-6.257535
CDT1	-0.076766	9.5199812	-0.580193	0.5760327	0.8201	-6.257716
LINC00115	-0.057604	7.0099785	-0.580168	0.5760489	0.8201	-6.257731
MINDY2	0.0391623	6.7872556	0.580089	0.5761001	0.8201	-6.257779
SLFN11	-0.041747	9.8006243	-0.580049	0.5761262	0.8201	-6.257804
DAAM1	-0.054462	8.3806284	-0.58001	0.5761512	0.8201	-6.257827
METTL21A	0.0393806	8.6773915	0.5798598	0.5762481	0.8201	-6.257918
PDE7A	0.069259	8.0963312	0.579824	0.5762712	0.8201	-6.257939
HERC5	0.0386103	6.803208	0.5797239	0.5763359	0.8201	-6.258
SNORD47	-0.049625	6.888385	-0.57971	0.5763446	0.8201	-6.258008
CFAP58	0.0401538	6.903219	0.57957	0.5764353	0.82015	-6.258093
ZNF784	-0.039923	7.6872621	-0.5794	0.576545	0.8202	-6.258196
NARFL	0.0398089	7.5805381	0.5793084	0.5766044	0.8202	-6.258251
PARD6G	-0.048242	6.7809063	-0.57925	0.5766422	0.8202	-6.258287
GCFC2	0.0580491	7.0285525	0.5791506	0.5767064	0.82021	-6.258347
CTAGE15	0.0390573	6.9102559	0.5790575	0.5767665	0.82021	-6.258403
SLC51A	0.0384444	6.8044791	0.5789763	0.576819	0.82021	-6.258452
SLC35F6	0.0372598	7.2263407	0.5788936	0.5768724	0.82021	-6.258502
SACS	-0.056854	7.0202132	-0.578693	0.5770023	0.82024	-6.258623
KLHL9	0.0624118	8.0224417	0.5786696	0.5770173	0.82024	-6.258637
RPL32P3	-0.046306	7.0789102	-0.578545	0.577098	0.82024	-6.258712
ALDH3B1	-0.038962	6.7478957	-0.57851	0.5771203	0.82024	-6.258733
PAQR6	0.0392136	6.8912007	0.5783113	0.5772489	0.82035	-6.258853
VPS26A	-0.06997	8.7959678	-0.577915	0.5775049	0.82063	-6.259092

MME	-0.073237	9.7019883	-0.577799	0.5775803	0.82066	-6.259162
CTNS	-0.050985	9.3446581	-0.577679	0.5776581	0.82069	-6.259235
MSL3	-0.038392	7.8346119	-0.577443	0.5778102	0.82082	-6.259377
MIR654	0.0485586	6.7857666	0.5773032	0.577901	0.82087	-6.259461
DHDH	-0.042158	6.7171097	-0.576772	0.5782444	0.82123	-6.259781
GAS6	-0.035122	6.8004054	-0.576684	0.5783015	0.82123	-6.259834
POU3F2	-0.03707	6.7666582	-0.57665	0.5783235	0.82123	-6.259854
FTH1P12	0.0808949	11.076437	0.5765649	0.5783788	0.82123	-6.259906
C8orf37	0.0630006	9.2734296	0.5764185	0.5784736	0.82129	-6.259994
TBL2	0.0460713	8.1472148	0.5763276	0.5785324	0.82129	-6.260049
FER1L6-AS1	0.0562426	6.8480275	0.5761302	0.5786602	0.82134	-6.260167
VAMP5	-0.042864	7.6432578	-0.576097	0.578682	0.82134	-6.260187
ADAMTS18	0.0379081	6.9213164	0.5758529	0.5788398	0.82149	-6.260334
SCAPER	0.0528857	7.0128856	0.5751026	0.5793258	0.8221	-6.260785
HIST3H3	0.0407962	6.9396689	0.5749115	0.5794496	0.82217	-6.260899
CNGB1	-0.037735	7.0726262	-0.574848	0.5794911	0.82217	-6.260938
CEP120	-0.069798	7.274193	-0.574711	0.5795796	0.82219	-6.26102
ATP6V0A1	0.0604591	9.5901581	0.5746554	0.5796156	0.82219	-6.261053
ARID4A	-0.040641	7.1642056	-0.574492	0.5797215	0.82226	-6.261151
HNF4G	0.0384549	6.7426445	0.57406	0.5800015	0.82251	-6.26141
ZBTB45	-0.040423	7.6139537	-0.573795	0.5801736	0.82251	-6.261569
STAB2	0.0376009	6.8041372	0.5737565	0.5801983	0.82251	-6.261592
PLTP	0.0453582	7.0587397	0.5737323	0.580214	0.82251	-6.261606
GIMAP7	-0.05187	6.7908429	-0.573725	0.580219	0.82251	-6.261611
CTAGE6	0.0395516	6.7773405	0.5736918	0.5802403	0.82251	-6.261631
FAM89A	-0.045121	7.6260565	-0.573383	0.5804408	0.82272	-6.261816
KIAA0408	0.0689025	7.6472279	0.5730716	0.5806425	0.82289	-6.262002
SLC22A2	-0.056426	6.8941481	-0.573018	0.5806776	0.82289	-6.262034
PALM	0.0355092	6.8605317	0.5727918	0.5808241	0.82302	-6.262169
LINC00324	-0.038659	6.9570811	-0.572342	0.5811161	0.82332	-6.262438
GNA13	-0.064843	9.3771861	-0.572291	0.5811489	0.82332	-6.262469
ZNF616	0.047866	7.283828	0.5720166	0.5813272	0.8235	-6.262633
PLA2G2D	-0.054945	8.2080836	-0.571706	0.5815287	0.82361	-6.262818
E2F8	-0.043218	7.1881696	-0.57165	0.5815651	0.82361	-6.262852
VCAN	0.0353782	6.7774548	0.5716339	0.5815756	0.82361	-6.262861
ANAPC11	-0.042662	8.3623636	-0.571447	0.5816968	0.82364	-6.262973
TRIB3	-0.042672	8.6867026	-0.571426	0.5817107	0.82364	-6.262985
TOP3B	-0.039525	9.1976382	-0.571279	0.5818063	0.82364	-6.263073
CD36	0.0440625	6.8057365	0.5712544	0.5818221	0.82364	-6.263088
SEC14L1	-0.03654	7.7486352	-0.570951	0.582019	0.82372	-6.263268
CSAG1	0.05676	7.0724254	0.5708719	0.5820705	0.82372	-6.263316
AIFM2	0.0370572	6.8342626	0.5708568	0.5820803	0.82372	-6.263325
MIR181C	-0.045655	7.0079759	-0.570819	0.5821052	0.82372	-6.263348

MIEF2	-0.10725	7.1982784	-0.570549	0.5822805	0.82381	-6.263508
SECTM1	0.0514309	6.9520936	0.570546	0.5822822	0.82381	-6.26351
FBXO43	0.0399114	6.8223165	0.5703091	0.5824362	0.82395	-6.263651
SERPINE2	-0.038972	6.7957351	-0.570173	0.5825246	0.82399	-6.263732
SNORD43	-0.052294	7.3925667	-0.56962	0.582884	0.82442	-6.264061
GEMIN8	-0.040965	7.7005466	-0.569535	0.5829396	0.82442	-6.264112
WDR26	0.0423478	8.1994623	0.5692857	0.5831014	0.82445	-6.26426
FAM90A1	0.0445795	6.7899294	0.5692301	0.5831375	0.82445	-6.264293
TYW3	0.0646562	8.6787892	0.5691113	0.5832148	0.82445	-6.264364
NAA40	-0.037484	6.9885399	-0.569087	0.5832306	0.82445	-6.264378
NR1I2	0.0592991	6.8957067	0.5690708	0.5832411	0.82445	-6.264388
UNC5A	0.040593	6.7303091	0.5689071	0.5833476	0.82447	-6.264485
DMXL2	-0.043055	6.9279139	-0.568866	0.5833741	0.82447	-6.26451
RFK	0.0352049	7.0277259	0.5686217	0.5835332	0.82457	-6.264655
LOC729324	-0.051251	10.366984	-0.568577	0.5835625	0.82457	-6.264682
BTRC	0.0464318	7.2618342	0.5685015	0.5836114	0.82457	-6.264726
ELOVL6	-0.060985	9.6366922	-0.568302	0.5837409	0.82467	-6.264845
ZHX1	0.0450925	7.1785788	0.5680153	0.5839278	0.82486	-6.265015
KANK3	-0.037037	7.2560024	-0.567736	0.5841096	0.8249	-6.265181
C10orf91	0.0451115	6.789318	0.5676784	0.584147	0.8249	-6.265215
BOP1	0.0682598	11.63948	0.5676284	0.5841795	0.8249	-6.265245
TBCB	0.0770884	10.627544	0.56762	0.584185	0.8249	-6.26525
BFSP2	0.0530828	7.4863125	0.5674491	0.5842963	0.82492	-6.265351
C12orf40	-0.0557	7.0751307	-0.567184	0.5844691	0.82492	-6.265508
CACNB4	-0.035196	6.9042235	-0.567151	0.5844901	0.82492	-6.265527
RBP5	0.0416973	6.9357531	0.566996	0.5845913	0.82492	-6.265619
C1orf159	-0.05165	7.608376	-0.566944	0.584625	0.82492	-6.26565
NSUN7	-0.035134	6.8299422	-0.566942	0.5846264	0.82492	-6.265651
APH1B	0.0439808	6.8380185	0.5669193	0.5846412	0.82492	-6.265665
MPHOSPH1(	0.0391127	8.1703357	0.5669081	0.5846485	0.82492	-6.265672
MSANTD3	-0.051803	8.6484214	-0.566715	0.5847742	0.82498	-6.265786
ATG14	-0.050562	8.205674	-0.566671	0.5848029	0.82498	-6.265812
TWIST2	-0.041487	6.9393347	-0.566303	0.5850429	0.82523	-6.26603
C17orf99	-0.043511	7.0595295	-0.565809	0.5853645	0.82561	-6.266322
LOC1001318	0.0420314	7.0233618	0.565672	0.5854537	0.82563	-6.266403
LYST	-0.038138	6.9004108	-0.565547	0.5855351	0.82563	-6.266477
PKIB	-0.036698	6.7787328	-0.565524	0.5855498	0.82563	-6.26649
MIR16-2	-0.049465	6.8613237	-0.565101	0.5858259	0.82575	-6.26674
UQCRFS1	-0.050523	12.578047	-0.565084	0.5858372	0.82575	-6.266751
SH3BGRL2	-0.034407	6.8328883	-0.565013	0.585883	0.82575	-6.266792
ATRX	0.0401649	6.9277275	0.5649384	0.5859318	0.82575	-6.266836
IL5	-0.036568	6.815364	-0.564895	0.5859602	0.82575	-6.266862
ARHGAP11A	0.0463432	7.1370723	0.5648781	0.5859712	0.82575	-6.266872

ARMC1	-0.069283	10.114898	-0.564472	0.5862362	0.826	-6.267112
QARS	-0.062716	13.005176	-0.564302	0.5863471	0.826	-6.267212
RPS6KB1	-0.079157	9.3781937	-0.564129	0.5864595	0.826	-6.267314
FBXL2	0.0426663	6.8421454	0.5641226	0.5864639	0.826	-6.267318
RPP30	0.0391735	7.2134084	0.5640622	0.5865033	0.826	-6.267353
ENHO	0.0377846	6.9302412	0.5638547	0.5866386	0.826	-6.267476
GALNT6	-0.048214	7.0030034	-0.563849	0.5866423	0.826	-6.267479
ERCC6L	0.0521719	7.7555609	0.563779	0.586688	0.826	-6.26752
MBLAC1	0.0361808	6.8942415	0.5637429	0.5867116	0.826	-6.267542
DEF6	0.043002	7.9920091	0.5636538	0.5867697	0.826	-6.267594
HNRNPH3	-0.047854	8.6401063	-0.563599	0.5868053	0.826	-6.267626
MOB1B	0.1030302	7.4039799	0.563563	0.5868289	0.826	-6.267648
AIG1	0.0479401	8.2600395	0.563288	0.5870084	0.82613	-6.26781
RPL23AP82	-0.034868	7.1344586	-0.563242	0.5870386	0.82613	-6.267837
C20orf194	-0.039708	6.7912465	-0.563154	0.5870959	0.82613	-6.267889
CYP4B1	0.0350452	6.8454184	0.5626202	0.5874443	0.82651	-6.268203
RIPOR3	0.045685	6.8550147	0.5625325	0.5875015	0.82651	-6.268254
LOC642131	0.0506407	7.3008982	0.5624182	0.5875762	0.82651	-6.268322
EME1	0.0581438	7.5440315	0.5623491	0.5876213	0.82651	-6.268362
PTPA	0.0420059	7.8977809	0.5622815	0.5876654	0.82651	-6.268402
ATF7IP	-0.036464	6.9515976	-0.562049	0.5878176	0.82651	-6.268539
ATXN1	-0.045347	7.3136785	-0.562017	0.587838	0.82651	-6.268557
RAET1G	0.0468887	6.858713	0.5619529	0.58788	0.82651	-6.268595
MED13L	0.0705074	7.4537836	0.5617216	0.5880311	0.82651	-6.268731
NFE2	-0.040048	6.7654607	-0.561694	0.5880494	0.82651	-6.268747
ABCB10	-0.081014	9.0955886	-0.561689	0.5880526	0.82651	-6.26875
MMP24	-0.040591	6.9000486	-0.561627	0.5880927	0.82651	-6.268786
NPTX2	-0.036214	6.7491787	-0.561612	0.5881026	0.82651	-6.268795
VWA7	0.0509237	6.9331364	0.5614075	0.5882363	0.82657	-6.268915
ZNF774	-0.03943	6.9067987	-0.561378	0.5882554	0.82657	-6.268932
OTP	0.0344073	7.2605663	0.5612494	0.5883396	0.82661	-6.269008
STOX2	-0.037933	6.8315338	-0.560967	0.5885242	0.8267	-6.269174
NR6A1	-0.036811	6.9958452	-0.560857	0.5885963	0.8267	-6.269239
ZDHHC16	0.0554511	9.670927	0.5607632	0.5886573	0.8267	-6.269293
CER1	-0.034178	6.8152455	-0.560759	0.5886602	0.8267	-6.269296
LCK	-0.035086	6.9359928	-0.560719	0.5886862	0.8267	-6.269319
WDR55	0.0576182	8.4273638	0.5603428	0.5889321	0.82696	-6.26954
SPRED3	0.0513761	6.9239198	0.5601144	0.5890815	0.82709	-6.269674
ANP32C	-0.069816	8.0371595	-0.559981	0.589169	0.82714	-6.269752
FLCN	0.037929	6.9875592	0.5594597	0.5895097	0.82754	-6.270057
CHAC1	0.057601	7.0249983	0.559256	0.5896429	0.82755	-6.270176
KLHL7	-0.040323	7.464004	-0.559001	0.5898099	0.82755	-6.270325
COL24A1	-0.054386	7.9081497	-0.558866	0.5898984	0.82755	-6.270404

SNORA35	0.0355578	6.844685	0.5588655	0.5898984	0.82755	-6.270404
NAT8L	-0.044203	6.7186297	-0.558839	0.5899158	0.82755	-6.27042
SENP6	-0.048321	8.228024	-0.55877	0.5899609	0.82755	-6.27046
TAPT1-AS1	-0.042709	7.0492942	-0.558691	0.5900127	0.82755	-6.270507
MSI2	-0.037966	7.4995094	-0.558634	0.5900501	0.82755	-6.27054
ACTC1	0.0527264	6.9442829	0.5586	0.5900721	0.82755	-6.27056
ZZZ3	-0.055407	8.7918329	-0.558577	0.5900873	0.82755	-6.270573
CDA	0.0390168	6.7592229	0.5582624	0.5902931	0.82776	-6.270757
TMPRSS5	-0.040376	6.7384121	-0.558165	0.5903567	0.82777	-6.270814
LINC01210	-0.049582	6.9568767	-0.557977	0.5904801	0.82786	-6.270924
PLPP4	-0.038488	6.9682399	-0.557817	0.590585	0.82793	-6.271017
SLC16A5	0.0400786	6.7462718	0.5576473	0.5906958	0.82797	-6.271116
SERPINF2	0.0397358	6.8101261	0.5575944	0.5907304	0.82797	-6.271147
ERI1	-0.037132	7.3203981	-0.55747	0.5908118	0.82797	-6.271219
RBMS1	0.0360353	7.215076	0.5574156	0.5908475	0.82797	-6.271251
SPRY1	-0.039834	6.8432556	-0.557257	0.5909515	0.82797	-6.271344
DHFR	0.0499236	7.6625173	0.5571913	0.5909944	0.82797	-6.271382
HAVCR2	-0.043341	7.6053655	-0.557117	0.5910431	0.82797	-6.271425
GNAI1	0.0387804	6.8461441	0.5570765	0.5910696	0.82797	-6.271449
CNOT11	0.0534024	11.318812	0.5567839	0.5912613	0.82805	-6.271619
SULT2B1	0.0410788	6.8810951	0.5566962	0.5913188	0.82805	-6.27167
TMEM173	-0.036225	6.8347985	-0.556677	0.5913313	0.82805	-6.271681
INTS6	-0.039338	8.1142468	-0.556572	0.5913999	0.82805	-6.271742
STRIP1	0.0561715	7.8493991	0.556443	0.5914847	0.82805	-6.271818
PNRC1	-0.0371	6.8449954	-0.556405	0.5915097	0.82805	-6.27184
ZMYND11	-0.040665	6.828018	-0.556379	0.5915264	0.82805	-6.271855
LTBR	0.0347265	6.790033	0.5562996	0.5915786	0.82805	-6.271901
ARHGAP33	-0.094774	8.3676119	-0.555755	0.5919359	0.82839	-6.272218
LRTOMT	-0.041157	7.3909817	-0.555645	0.5920076	0.82839	-6.272282
HUS1B	0.0348824	7.2950029	0.5556096	0.5920309	0.82839	-6.272303
NANS	-0.063473	9.5831351	-0.555583	0.5920486	0.82839	-6.272318
AVIL	-0.050946	7.0425475	-0.555258	0.5922616	0.82861	-6.272507
ATXN1L	-0.03771	7.4487884	-0.555015	0.5924208	0.82869	-6.272648
C6orf106	-0.038117	7.5972464	-0.555002	0.5924294	0.82869	-6.272656
TRIM61	-0.070353	8.193907	-0.554804	0.5925591	0.82877	-6.272771
USP47	-0.051935	7.3711995	-0.554667	0.5926493	0.82877	-6.27285
OTX2	0.0357783	6.7447569	0.5546509	0.5926596	0.82877	-6.272859
RBMX2	-0.039743	8.1920806	-0.554501	0.5927582	0.82883	-6.272947
ARPP21	0.0457173	6.8001367	0.5538498	0.5931853	0.82912	-6.273324
RCSD1	0.0553027	8.6163461	0.5537628	0.5932424	0.82912	-6.273375
TTTY14	0.0507684	7.205374	0.5537604	0.5932439	0.82912	-6.273376
RBAK	0.0516618	6.9539322	0.5537601	0.5932442	0.82912	-6.273376
NSD2	-0.035499	6.9578383	-0.553749	0.5932514	0.82912	-6.273383

PCOLCE2	-0.039057	6.8535986	-0.55349	0.5934216	0.82928	-6.273533
IL17RB	-0.035037	6.8608764	-0.553339	0.5935208	0.82934	-6.27362
FGFBP3	0.0438242	7.1260504	0.5531722	0.5936301	0.82941	-6.273717
CCT6A	0.0465426	10.162779	0.5528733	0.5938264	0.82958	-6.27389
ANKIB1	0.0448519	8.9428783	0.5526521	0.5939716	0.82958	-6.274018
LYPD2	-0.046476	6.9809643	-0.552628	0.5939876	0.82958	-6.274032
ZNF638	0.0463203	7.5628766	0.5525545	0.5940357	0.82958	-6.274074
ADGRB1	0.0354002	6.8705869	0.5525444	0.5940424	0.82958	-6.27408
ZSWIM3	0.0371643	7.2882934	0.5524719	0.59409	0.82958	-6.274122
IGF1	0.0481102	6.864634	0.5523621	0.5941621	0.82959	-6.274186
AGPAT5	-0.045113	8.4066565	-0.552267	0.5942243	0.82959	-6.27424
RPL12P1	0.0666075	8.0461623	0.5521736	0.594286	0.82959	-6.274295
BNIP3	0.0395993	6.9520987	0.5520014	0.5943991	0.82959	-6.274394
PIM1	-0.041857	10.23541	-0.551974	0.594417	0.82959	-6.27441
SCNN1B	-0.050547	6.9516787	-0.551944	0.5944365	0.82959	-6.274427
MIR1251	-0.04152	6.8357351	-0.551627	0.5946448	0.82975	-6.27461
ZNF28	-0.038683	7.0999238	-0.551437	0.5947699	0.82975	-6.27472
ZNF280D	-0.037973	6.8000297	-0.551405	0.5947907	0.82975	-6.274738
SGPP2	-0.075011	6.8723304	-0.551299	0.5948604	0.82975	-6.274799
NIPA2	0.0390695	9.5422189	0.551049	0.595025	0.82975	-6.274944
SNORD7	-0.035264	6.8927536	-0.550991	0.5950633	0.82975	-6.274978
LOC340357	0.042421	7.1700137	0.5509874	0.5950655	0.82975	-6.274979
ITPRIPL1	0.0358114	7.1731102	0.5509844	0.5950675	0.82975	-6.274981
7-Mar	0.0810874	10.147677	0.5509	0.595123	0.82975	-6.27503
TSTD2	-0.042074	7.291075	-0.550839	0.5951633	0.82975	-6.275065
FCGR2B	-0.040724	8.9537588	-0.550804	0.5951859	0.82975	-6.275085
KDELR3	0.0347905	6.7600551	0.5507255	0.5952377	0.82975	-6.275131
OPHN1	-0.039673	6.787258	-0.550566	0.5953429	0.82981	-6.275223
RPL38	0.0451923	14.456867	0.5504914	0.5953917	0.82981	-6.275266
GIMAP5	-0.035128	6.85007	-0.550155	0.5956129	0.83004	-6.275459
RAB40B	0.0378373	6.7948406	0.5498486	0.5958144	0.83024	-6.275636
HVCN1	-0.033885	7.6666096	-0.549746	0.5958819	0.83025	-6.275695
MMP1	-0.038812	6.7815962	-0.54941	0.596103	0.83048	-6.275888
MIR577	0.0467408	6.9299259	0.5491942	0.596245	0.83053	-6.276012
IDNK	-0.037262	7.9614046	-0.549183	0.5962527	0.83053	-6.276019
RXRA	0.04273	6.7952637	0.5490731	0.5963247	0.83055	-6.276082
ARL4C	-0.043629	6.9177373	-0.548758	0.5965319	0.83068	-6.276263
LINC00937	-0.036911	6.793286	-0.548738	0.596545	0.83068	-6.276274
PFKFB2	0.0406637	7.0043674	0.5486762	0.596586	0.83068	-6.27631
DSP	0.0334928	6.9350825	0.5485906	0.5966423	0.83068	-6.276359
GSTA4	-0.04711	7.2026253	-0.548487	0.5967105	0.83069	-6.276419
ELMSAN1	0.041459	8.6081723	0.5483727	0.5967858	0.8307	-6.276485
H3F3A	-0.053698	12.680914	-0.548306	0.5968294	0.8307	-6.276523

PSMB8	0.036484	9.2901374	0.5479357	0.5970736	0.83096	-6.276735
SCML2	0.0439985	6.9408257	0.5473184	0.5974802	0.8314	-6.277089
GAS2	-0.03392	6.8693257	-0.547266	0.5975148	0.8314	-6.27712
TCTN2	-0.035463	6.9572067	-0.547201	0.5975575	0.8314	-6.277157
C7orf25	0.0339112	8.2454509	0.5469727	0.597708	0.83144	-6.277288
C2orf42	-0.057429	8.4082484	-0.546894	0.5977596	0.83144	-6.277333
POMK	-0.033499	6.8489113	-0.546817	0.5978104	0.83144	-6.277377
ATP6V1E2	0.0434722	7.5427149	0.546813	0.5978133	0.83144	-6.277379
PDLIM7	0.0334924	7.2731142	0.546474	0.5980367	0.8316	-6.277573
TIMM13	-0.048048	7.0325935	-0.546348	0.5981195	0.8316	-6.277645
DHFR2	0.0366176	7.5057598	0.5462188	0.5982049	0.8316	-6.277719
ZDHHC17	-0.06001	7.9251064	-0.546219	0.5982051	0.8316	-6.277719
MIR425	-0.039355	6.746495	-0.546118	0.5982716	0.8316	-6.277777
PRMT2	0.0357505	7.8131609	0.5459496	0.5983824	0.8316	-6.277873
RBM25	-0.086592	10.258426	-0.545811	0.598474	0.8316	-6.277953
BSPH1	0.050215	7.00448	0.5458046	0.598478	0.8316	-6.277956
RHOB	-0.038668	6.7566523	-0.545786	0.59849	0.8316	-6.277967
PSME1	-0.036739	10.280494	-0.545768	0.5985024	0.8316	-6.277977
CRNKL1	-0.038353	7.3627588	-0.545236	0.5988532	0.83201	-6.278281
SLPI	-0.039015	6.8094651	-0.544836	0.5991171	0.83224	-6.27851
PCDHB14	0.0361134	6.8647244	0.5448102	0.599134	0.83224	-6.278524
DUT	-0.055506	9.507043	-0.544697	0.5992088	0.83227	-6.278589
SPNS3	-0.034937	6.8973266	-0.544339	0.599445	0.83251	-6.278793
CNTNAP3	0.0494106	6.7736315	0.5442366	0.5995124	0.83253	-6.278852
SNORA55	0.0387317	6.9448403	0.5441495	0.59957	0.83253	-6.278901
ZNF705D	-0.034768	6.8790691	-0.543682	0.5998786	0.83284	-6.279168
LCN15	-0.04321	6.8694013	-0.543623	0.5999177	0.83284	-6.279201
CAMSAP1	0.0392215	8.4161155	0.5434704	0.6000183	0.83284	-6.279288
C1orf27	0.0588963	6.9703167	0.5434668	0.6000207	0.83284	-6.27929
NINJ2	-0.059239	8.4480706	-0.543014	0.6003197	0.83315	-6.279548
VASN	0.0355732	6.7495509	0.5429324	0.6003737	0.83315	-6.279595
PGLYRP4	-0.051931	6.9355648	-0.542871	0.6004142	0.83315	-6.279629
NBPF1	-0.0357	7.3161621	-0.542654	0.6005577	0.83323	-6.279753
GSTP1	-0.069868	8.1709439	-0.542604	0.6005907	0.83323	-6.279781
ZMYM1	-0.059166	8.3339991	-0.542526	0.6006418	0.83323	-6.279825
DTX4	-0.044309	6.9460514	-0.542387	0.6007343	0.83327	-6.279905
MAGIX	0.0398746	6.880486	0.5420304	0.6009696	0.83337	-6.280107
OR4S1	-0.04682	6.901125	-0.541953	0.6010207	0.83337	-6.280151
JAK1	0.0642552	8.3307578	0.54186	0.6010822	0.83337	-6.280204
IGSF6	-0.0529	6.8292346	-0.541784	0.6011323	0.83337	-6.280247
TMEM246	0.0386635	6.817741	0.5417559	0.601151	0.83337	-6.280263
GJC1	0.0508101	9.874393	0.5417142	0.6011786	0.83337	-6.280287
HBD	-0.043107	7.8585044	-0.541554	0.6012846	0.83337	-6.280378

SIGLEC5	-0.04421	6.9562868	-0.541546	0.6012901	0.83337	-6.280383
MIER1	-0.037189	7.7014649	-0.541505	0.6013172	0.83337	-6.280406
TRPS1	0.0410677	7.1704469	0.5413932	0.6013908	0.83339	-6.280469
ZNF786	0.0990983	8.8660377	0.5411734	0.6015361	0.83343	-6.280594
GLYR1	-0.042423	8.5242949	-0.541112	0.6015767	0.83343	-6.280629
ZBTB44	-0.062989	7.7439523	-0.541093	0.6015893	0.83343	-6.28064
CLEC12A	-0.033675	6.7874782	-0.541011	0.6016437	0.83343	-6.280686
ESRRAP2	0.0420116	9.6432851	0.5407984	0.6017841	0.83354	-6.280807
RPS18	-0.057344	13.504324	-0.540677	0.6018644	0.83357	-6.280875
EFCAB2	-0.036003	6.8166858	-0.540416	0.602037	0.83367	-6.281023
RICTOR	-0.038263	6.8456099	-0.540313	0.602105	0.83367	-6.281081
AIDA	-0.061977	10.057054	-0.540242	0.6021519	0.83367	-6.281122
GPBAR1	-0.035664	6.8145338	-0.540089	0.6022536	0.83367	-6.281209
EIF3A	0.0796402	10.408033	0.540051	0.6022785	0.83367	-6.28123
IQCK	0.0377381	7.6750799	0.5399022	0.602377	0.83367	-6.281314
SEC11A	0.0430615	10.721579	0.5398402	0.602418	0.83367	-6.281349
DDX31	-0.033824	7.7080914	-0.539741	0.6024839	0.83367	-6.281406
TMEM141	-0.070794	9.6917112	-0.539732	0.6024893	0.83367	-6.28141
WTIP	0.0522581	6.8364195	0.5396336	0.6025547	0.83367	-6.281466
ENOX1	0.0353983	6.851165	0.5396231	0.6025616	0.83367	-6.281472
ZNF8	0.0365088	7.00147	0.5394455	0.6026792	0.83373	-6.281573
DSE	-0.042822	6.8313024	-0.539383	0.6027204	0.83373	-6.281608
PCGF6	-0.04102	8.2834571	-0.539246	0.602811	0.83378	-6.281685
GPR107	0.0406755	6.9879838	0.5391563	0.6028706	0.83378	-6.281736
OPN3	0.0334944	6.8316142	0.5389831	0.6029853	0.83386	-6.281834
PLPP7	0.0401257	6.8118758	0.538768	0.6031277	0.83392	-6.281956
FAAH2	0.058434	6.9087287	0.5386383	0.6032136	0.83392	-6.282029
PNCK	-0.039992	6.786465	-0.538567	0.6032611	0.83392	-6.282069
CRYAA	0.0592354	6.9717196	0.5385304	0.6032851	0.83392	-6.28209
TLDC1	0.036214	6.9343973	0.5384854	0.6033149	0.83392	-6.282115
GRPEL1	0.0363045	10.265763	0.5383455	0.6034075	0.83397	-6.282194
C5orf42	0.0388633	6.8843179	0.538128	0.6035516	0.83409	-6.282317
VTRNA1-1	-0.05308	7.0322298	-0.537737	0.6038108	0.83418	-6.282538
CHTF8	-0.032502	7.0895603	-0.537611	0.6038938	0.83418	-6.282608
BACH1	-0.050895	7.0824112	-0.537509	0.6039616	0.83418	-6.282666
ATAD2B	0.0490829	7.3342032	0.5374824	0.6039793	0.83418	-6.282681
H2AFY	0.0343298	9.6016067	0.5374759	0.6039836	0.83418	-6.282685
OVOL2	-0.042944	6.8318671	-0.537453	0.6039991	0.83418	-6.282698
ORM1	-0.036819	6.8020722	-0.537408	0.6040285	0.83418	-6.282723
ZNF112	0.0450308	6.87557	0.5373446	0.6040706	0.83418	-6.282759
MAF1	0.0509038	8.1525747	0.5364863	0.6046396	0.83488	-6.283242
RAF1	0.0467882	8.9464714	0.5361379	0.6048706	0.83512	-6.283438
EPB41L5	-0.036213	7.400564	-0.536001	0.6049616	0.83517	-6.283515

MICA	-0.034325	6.8723919	-0.535878	0.6050427	0.8352	-6.283584
CNTNAP1	-0.036235	6.8143252	-0.535721	0.6051473	0.83522	-6.283673
ANKRD33	-0.045186	7.4781869	-0.535686	0.6051701	0.83522	-6.283692
SLC40A1	0.0353715	6.800211	0.5354323	0.6053386	0.83529	-6.283835
OXCT2	0.0382657	6.834	0.5352959	0.6054291	0.83529	-6.283911
PASD1	-0.040332	6.7841196	-0.535265	0.6054498	0.83529	-6.283929
CD6	-0.037778	6.7443619	-0.535256	0.6054556	0.83529	-6.283934
OR1J1	0.0502346	6.8930644	0.5351237	0.6055434	0.83529	-6.284008
SMR3B	0.0389706	6.7925221	0.535	0.6056255	0.83529	-6.284077
CNNM3	0.0399709	8.1937561	0.5349959	0.6056281	0.83529	-6.28408
CABLES1	-0.037686	6.8217382	-0.534853	0.6057233	0.83529	-6.28416
YIPF7	0.0378015	6.8147253	0.5347103	0.6058177	0.83529	-6.28424
MCU	-0.037918	8.0641451	-0.534662	0.6058499	0.83529	-6.284267
PCBP3	0.0366455	6.792778	0.5346575	0.6058527	0.83529	-6.284269
AUTS2	0.0438202	8.4955587	0.5345654	0.6059139	0.8353	-6.284321
CXCL14	0.0360219	6.8709181	0.5343866	0.6060326	0.83534	-6.284421
SRRD	-0.065712	8.9714806	-0.534347	0.6060588	0.83534	-6.284443
CAMK2N1	-0.037918	6.8106345	-0.534188	0.6061647	0.83537	-6.284533
CXCL16	0.0331935	6.7481925	0.5341455	0.6061926	0.83537	-6.284556
COL13A1	0.0359071	6.9879926	0.533477	0.6066365	0.8359	-6.284931
B3GAT1	-0.03719	6.9942577	-0.533305	0.6067504	0.83598	-6.285027
GPBP1L1	-0.040111	8.0626923	-0.533098	0.6068884	0.836	-6.285143
CDAN1	-0.10964	12.014641	-0.532844	0.6070571	0.836	-6.285285
POLQ	-0.073195	9.0294048	-0.532827	0.6070681	0.836	-6.285294
EZH1	-0.041032	7.1856345	-0.532697	0.6071549	0.836	-6.285367
MIR29B1	0.0417188	7.0507413	0.5325215	0.6072713	0.836	-6.285465
SP8	0.042741	6.9555853	0.5323925	0.607357	0.836	-6.285537
ATF5	0.0524832	9.1459347	0.5323504	0.607385	0.836	-6.285561
IRF2	0.036878	7.1769133	0.5323304	0.6073983	0.836	-6.285572
SLC6A8	-0.053241	6.7838576	-0.532281	0.6074312	0.836	-6.2856
ALG3	0.037721	9.0797789	0.5322591	0.6074457	0.836	-6.285612
NLGN2	-0.061439	7.3295075	-0.532259	0.6074458	0.836	-6.285612
BEST1	0.0404381	6.832925	0.5321979	0.6074864	0.836	-6.285646
GOLGA2P6	-0.036782	6.8673435	-0.532164	0.6075091	0.836	-6.285665
PCOTH	0.0327558	6.873307	0.5318901	0.607691	0.83605	-6.285818
ZNF177	0.0403118	7.0624793	0.5317542	0.6077814	0.83605	-6.285894
MOB3C	-0.054557	7.7604378	-0.531672	0.6078361	0.83605	-6.28594
LOC389405	0.0340581	6.8208382	0.5316489	0.6078513	0.83605	-6.285952
XBP1	0.0573017	11.412791	0.5315894	0.6078909	0.83605	-6.285986
CFTR	0.0490111	6.9294392	0.5315781	0.6078984	0.83605	-6.285992
OR2W1	0.0402199	6.8267383	0.5314991	0.607951	0.83605	-6.286036
SIKE1	-0.047616	7.0552799	-0.530843	0.6083876	0.83654	-6.286402
FMO5	0.0349279	6.8132954	0.5307994	0.6084163	0.83654	-6.286426

VPS13A	0.0535331	7.6247237	0.5304796	0.608629	0.83663	-6.286604
WNT10B	0.0340631	6.9159607	0.5303915	0.6086876	0.83663	-6.286653
SIRPB1	-0.034704	6.7317428	-0.530337	0.6087236	0.83663	-6.286683
DENND4A	-0.046729	7.7320155	-0.530332	0.6087275	0.83663	-6.286687
GOLGA8IP	-0.03838	6.8890136	-0.530192	0.6088205	0.83663	-6.286764
KIF24	0.0336887	7.4927716	0.5301759	0.6088311	0.83663	-6.286773
MAPK7	-0.034716	7.1263144	-0.529892	0.6090203	0.83676	-6.286931
LEP	0.0774351	8.4882988	0.5298617	0.6090402	0.83676	-6.286948
CRACR2B	-0.04261	6.8521693	-0.529708	0.6091428	0.83683	-6.287034
SESN2	0.0425084	7.2167596	0.5294966	0.6092832	0.83693	-6.287151
OXER1	-0.034605	6.8697264	-0.529423	0.6093319	0.83693	-6.287192
TEX2	-0.042504	8.8896636	-0.529304	0.6094112	0.83696	-6.287258
TNFRSF1A	0.0609243	7.211532	0.5290543	0.6095777	0.83706	-6.287397
MOB4	-0.071753	8.6694409	-0.528855	0.6097107	0.83706	-6.287508
COL6A1	0.0373408	6.7795259	0.5288475	0.6097154	0.83706	-6.287512
R3HDM1	0.0477565	8.1430219	0.5288463	0.6097162	0.83706	-6.287512
CYB561	0.0363259	7.0385322	0.5285007	0.6099463	0.83727	-6.287704
C16orf59	0.0525304	8.6218136	0.5284469	0.6099822	0.83727	-6.287734
EXOSC3	0.0421583	10.68796	0.5282738	0.6100975	0.83732	-6.28783
PLEKHG2	-0.040012	7.0590247	-0.5282	0.6101467	0.83732	-6.287871
ZDHHC9	-0.036637	7.4969503	-0.528066	0.6102361	0.83732	-6.287945
YES1	-0.040986	6.8354079	-0.528046	0.6102494	0.83732	-6.287956
PAQR5	0.0377209	6.7886226	0.5276914	0.6104855	0.83757	-6.288153
PTP4A1	0.0407813	7.5932255	0.5275839	0.6105572	0.83759	-6.288212
PRAF2	0.0470103	7.4679106	0.5274835	0.6106241	0.8376	-6.288268
MAST4	-0.061823	7.5534047	-0.527328	0.6107278	0.83762	-6.288354
BCL7A	-0.046408	7.8758426	-0.527201	0.6108123	0.83762	-6.288424
CCDC43	-0.057497	8.3032764	-0.527199	0.6108138	0.83762	-6.288425
RNF122	0.0563897	7.0030211	0.5266745	0.6111634	0.83798	-6.288716
RDH8	-0.042769	6.9613922	-0.526638	0.6111874	0.83798	-6.288736
DENND2D	-0.048425	7.7504718	-0.526443	0.6113181	0.83808	-6.288844
NDRG4	-0.038046	6.8427934	-0.526217	0.6114687	0.83821	-6.288969
AKTIP	-0.034711	8.3829026	-0.525869	0.6117006	0.83828	-6.289161
XCR1	0.0409495	7.1772368	0.5258437	0.6117175	0.83828	-6.289175
IDE	0.0377077	8.6130138	0.5258246	0.6117302	0.83828	-6.289185
SIX6	0.0397934	6.9183299	0.5257958	0.6117494	0.83828	-6.289201
DSG2	-0.036749	6.8112275	-0.525683	0.6118244	0.8383	-6.289263
NXNL1	0.0356441	6.9431383	0.5250846	0.612224	0.83868	-6.289594
SDHC	0.0505484	7.9609669	0.5249751	0.612297	0.83868	-6.289654
DIRC2	0.043035	7.6169496	0.5249026	0.6123454	0.83868	-6.289694
FAT1	0.0380828	6.8872454	0.524891	0.6123531	0.83868	-6.2897
SIRT1	-0.065891	8.3299574	-0.524768	0.6124354	0.83868	-6.289768
RBBP8	-0.044816	8.7550048	-0.5247	0.6124808	0.83868	-6.289806

CCDC184	-0.036176	7.078743	-0.524663	0.6125056	0.83868	-6.289826
TMEM123	0.0899798	11.484556	0.5243611	0.6127069	0.83888	-6.289992
MT1P3	0.0353126	6.9002278	0.5241981	0.6128157	0.83895	-6.290082
S100A6	0.0523799	7.1733246	0.5240846	0.6128915	0.83897	-6.290145
CYCSP52	-0.043445	7.2950483	-0.523693	0.6131528	0.83925	-6.29036
GGTLC2	-0.039982	6.9056382	-0.523499	0.6132823	0.83933	-6.290467
ZNF585B	0.0406384	6.9785979	0.5233728	0.6133669	0.83933	-6.290536
DHX8	0.0357685	7.3378851	0.5233477	0.6133836	0.83933	-6.29055
EIF2B2	0.0409173	10.186622	0.5232128	0.6134738	0.83938	-6.290624
CTR9	-0.040384	7.4759454	-0.522676	0.6138327	0.83967	-6.290919
BTBD9	0.0391695	6.9374905	0.5226623	0.6138416	0.83967	-6.290927
ZC3H11A	0.039246	6.8172401	0.5226376	0.6138581	0.83967	-6.29094
NOP53	0.0485596	12.930265	0.5222572	0.6141124	0.83994	-6.291149
CXCL3	-0.055648	7.0398342	-0.522097	0.6142195	0.84001	-6.291237
TM9SF2	-0.057982	10.133994	-0.521768	0.6144392	0.84023	-6.291417
RPL19P9	-0.056008	13.351073	-0.521583	0.6145634	0.84032	-6.291519
STAP2	-0.03343	6.8271831	-0.521398	0.6146866	0.84041	-6.29162
PIGN	-0.041255	8.53129	-0.521147	0.6148544	0.84052	-6.291757
TMCO5A	-0.041216	6.9697609	-0.520957	0.6149818	0.84052	-6.291862
RAP1A	0.0476908	7.4907734	0.5209407	0.6149926	0.84052	-6.29187
FAHD2B	-0.056686	10.009623	-0.520926	0.6150022	0.84052	-6.291878
ZMYM4	0.0583828	8.7142747	0.5207862	0.615096	0.84057	-6.291955
ZFR2	0.0352336	6.8530184	0.5206286	0.6152014	0.84064	-6.292041
IBA57	-0.037234	7.302696	-0.520367	0.6153767	0.8408	-6.292184
EIF3FP2	-0.08032	9.854489	-0.520197	0.6154902	0.84082	-6.292277
TBC1D12	0.0446731	7.1069491	0.520142	0.615527	0.84082	-6.292307
ATXN2L	-0.037	6.9514121	-0.520083	0.6155663	0.84082	-6.292339
PTPDC1	0.0380913	6.9338675	0.5197598	0.6157829	0.84104	-6.292516
SP140	0.0392328	8.2560434	0.5196338	0.6158672	0.84107	-6.292585
NAV3	-0.041102	6.8238891	-0.519557	0.6159185	0.84107	-6.292627
KIFC3	0.0445702	6.8938033	0.5191789	0.6161718	0.84133	-6.292833
INIP	-0.047211	10.337564	-0.51909	0.6162311	0.84134	-6.292882
HMGB3P1	0.0414939	6.8836328	0.5187837	0.6164364	0.84154	-6.293049
SLC35D1	-0.03842	7.0433818	-0.518532	0.6166048	0.84158	-6.293186
ST3GAL1	0.0343039	7.0645421	0.5184118	0.6166855	0.84158	-6.293251
FAM234B	0.0404551	7.6091159	0.5184084	0.6166878	0.84158	-6.293253
HAX1	0.0393907	8.9387846	0.5183903	0.6166999	0.84158	-6.293263
ILVBL	-0.044317	9.0868913	-0.518276	0.6167763	0.84161	-6.293325
CLCN3	-0.046162	7.7333354	-0.518087	0.6169031	0.8417	-6.293428
BRD7	-0.039495	9.4286489	-0.517988	0.6169694	0.84172	-6.293482
WTAP	-0.033909	8.0172138	-0.517798	0.6170966	0.84181	-6.293586
APOE	0.0336357	6.7794572	0.5177058	0.6171585	0.84182	-6.293636
C1QL1	-0.031437	6.8071553	-0.517556	0.6172588	0.84187	-6.293717

TRAPPC1	0.0381224	10.031843	0.5170067	0.6176271	0.84214	-6.294016
S100A1	0.0437636	6.9394787	0.5169532	0.617663	0.84214	-6.294045
GALNS	-0.051643	7.1755446	-0.516931	0.6176778	0.84214	-6.294057
PRKAR1A	0.0409073	9.2838764	0.5167545	0.6177962	0.84214	-6.294153
ARRB2	0.0375723	7.1065412	0.5167099	0.6178261	0.84214	-6.294177
UBR3	0.0437263	7.8685246	0.5167015	0.6178317	0.84214	-6.294182
TSC22D3	-0.036262	8.357673	-0.516664	0.6178571	0.84214	-6.294202
GUK1	0.0563712	10.575761	0.5164633	0.6179915	0.84215	-6.294311
SOS1	0.0471879	7.0195754	0.516451	0.6179997	0.84215	-6.294318
RAB26	-0.035566	6.7514392	-0.51639	0.6180409	0.84215	-6.294351
MAP6	-0.033131	6.9105159	-0.515964	0.618326	0.84245	-6.294582
HIST1H2AI	-0.050729	7.0110467	-0.515894	0.618373	0.84245	-6.29462
ZDHHC2	0.0501237	7.1657767	0.515336	0.6187477	0.84281	-6.294923
B3GNT2	0.056325	7.7692786	0.5153264	0.6187541	0.84281	-6.294928
MFSD2A	0.0330261	7.0821372	0.5151055	0.6189023	0.84293	-6.295048
DEFB130	-0.037081	6.7865545	-0.514935	0.6190169	0.84301	-6.29514
TAX1BP1	-0.041941	10.241816	-0.514607	0.619237	0.84323	-6.295317
MSRA	0.0362835	6.7833847	0.5142299	0.6194901	0.84348	-6.295521
ASPHD1	-0.034651	6.8968414	-0.514163	0.6195352	0.84348	-6.295558
CTPS1	-0.071349	10.327706	-0.513304	0.6201117	0.84419	-6.296021
CRELD2	0.0665583	10.697537	0.5129769	0.6203317	0.84441	-6.296198
MYLIP	-0.032614	10.060114	-0.512495	0.6206556	0.84477	-6.296458
UBE2Z	0.0372064	8.4471837	0.5123939	0.6207235	0.84478	-6.296513
ATP8B3	0.0371173	6.7372486	0.5122349	0.6208304	0.84484	-6.296598
C16orf54	0.0502639	6.9889062	0.5121631	0.6208786	0.84484	-6.296637
RIOK2	-0.052845	8.9953663	-0.511472	0.6213434	0.84532	-6.297009
ZBTB42	-0.044207	7.4684185	-0.511462	0.6213501	0.84532	-6.297014
IMP4	-0.051296	12.180946	-0.511016	0.6216498	0.84555	-6.297254
CLGN	0.0331336	6.7206755	0.5109319	0.6217065	0.84555	-6.297299
LOC441268	0.0395847	6.9960459	0.5107859	0.6218047	0.84555	-6.297378
LINC01164	0.036756	6.8955505	0.5106112	0.6219223	0.84555	-6.297472
ICOS	-0.048879	6.8879163	-0.510475	0.6220141	0.84555	-6.297545
FBXW2	0.0362772	8.0178969	0.5104691	0.6220179	0.84555	-6.297548
FUT8	-0.067762	8.3393307	-0.510454	0.6220281	0.84555	-6.297556
LINC00226	-0.03344	7.0018038	-0.510451	0.6220298	0.84555	-6.297557
CMSS1	-0.034399	9.9246774	-0.510436	0.6220404	0.84555	-6.297566
CFAP44	-0.034826	6.9102968	-0.51023	0.6221786	0.84563	-6.297676
CMYA5	0.0383616	6.7255109	0.5101492	0.6222331	0.84563	-6.29772
HFE2	0.0326889	6.8735741	0.5098894	0.6224079	0.84563	-6.297859
GFI1	-0.04874	7.4496494	-0.509823	0.6224523	0.84563	-6.297894
LRFN5	-0.03369	6.8215043	-0.50975	0.6225019	0.84563	-6.297934
GDPD1	0.0391122	7.3188054	0.5096568	0.6225645	0.84563	-6.297984
KIF4A	0.0356129	8.0164965	0.5096362	0.6225784	0.84563	-6.297995

ZNF480	-0.043616	7.402022	-0.509578	0.6226174	0.84563	-6.298026
C2CD4C	0.0498669	7.1072241	0.5095115	0.6226624	0.84563	-6.298062
TLR10	-0.046256	9.0791316	-0.509406	0.6227334	0.84563	-6.298118
SBDSP1	-0.04925	8.4068107	-0.509405	0.6227341	0.84563	-6.298119
FAM206A	0.0371601	8.5142135	0.5087475	0.6231768	0.84608	-6.298471
DPH1	-0.041898	6.9535244	-0.50874	0.6231818	0.84608	-6.298475
MIRLET7BH(	-0.033812	6.9607724	-0.508578	0.6232909	0.84609	-6.298562
SH2D3C	0.0317935	7.1239835	0.508525	0.6233266	0.84609	-6.29859
HOXA6	0.0627038	7.2544273	0.5084697	0.6233639	0.84609	-6.29862
ZNF420	-0.039929	6.8284938	-0.508206	0.6235412	0.84618	-6.298761
MAPK10	-0.042207	6.8834714	-0.5082	0.6235454	0.84618	-6.298764
NOXA1	-0.035334	6.8913604	-0.507788	0.6238228	0.84631	-6.298984
BRD2	-0.072386	11.265625	-0.507725	0.6238659	0.84631	-6.299018
RHEBL1	-0.037536	6.9260124	-0.507667	0.6239048	0.84631	-6.299049
TMEM191A	-0.031455	6.8322411	-0.507567	0.6239722	0.84631	-6.299102
MIR607	-0.033845	7.4298216	-0.507561	0.6239759	0.84631	-6.299105
PAPSS1	-0.049685	9.1443529	-0.507392	0.6240897	0.84631	-6.299195
CDKN2D	-0.032105	7.1986645	-0.507366	0.6241074	0.84631	-6.29921
TMEM134	-0.049078	9.0847516	-0.507364	0.6241091	0.84631	-6.299211
CCRL2	-0.03162	6.8073644	-0.507184	0.62423	0.8464	-6.299307
TMEM229A	0.0419232	6.8713294	0.507088	0.6242949	0.84641	-6.299358
ATP6V1F	-0.051954	11.896343	-0.506706	0.6245522	0.84661	-6.299562
LINC01023	-0.033399	6.8341874	-0.506662	0.6245823	0.84661	-6.299585
ECSCR	0.036264	6.972488	0.5066123	0.6246156	0.84661	-6.299612
PGBD5	-0.033667	6.7182726	-0.506436	0.6247342	0.84669	-6.299706
DIP2A	-0.032068	7.0440063	-0.506262	0.6248521	0.84677	-6.299799
LAT2	0.0372716	7.9415459	0.5061731	0.6249118	0.84677	-6.299846
FYTTD1	-0.039849	8.1381492	-0.505862	0.6251215	0.84698	-6.300011
KCNG4	-0.045933	7.0844552	-0.50563	0.6252778	0.84711	-6.300135
MAP1LC3A	-0.044398	6.768396	-0.505445	0.6254031	0.84718	-6.300234
SLC6A9	0.0343772	7.2432236	0.5053872	0.6254419	0.84718	-6.300264
ARNT	0.0359969	7.2188697	0.5048802	0.625784	0.84756	-6.300534
CRYBG3	-0.033044	6.812629	-0.504654	0.6259366	0.84769	-6.300654
PRUNE1	0.0367911	8.4330765	0.5044226	0.6260929	0.84769	-6.300777
PDE8B	0.0421415	6.9296093	0.5043813	0.6261208	0.84769	-6.300799
FZD9	0.0349572	6.740003	0.5042631	0.6262006	0.84769	-6.300862
EBF3	-0.037469	6.8403806	-0.504239	0.6262166	0.84769	-6.300874
RNF165	0.0343811	6.810967	0.504226	0.6262256	0.84769	-6.300881
CNTFR	-0.040855	6.8246393	-0.504087	0.6263197	0.84774	-6.300955
MMRN2	0.0318354	6.849487	0.5038247	0.6264966	0.8479	-6.301094
GPR27	-0.036094	6.937972	-0.503476	0.6267321	0.84807	-6.301279
TMEM52B	0.0432425	6.8499812	0.5033406	0.6268235	0.84807	-6.301351
ZNF25	-0.062014	7.5944299	-0.503318	0.6268391	0.84807	-6.301363

SEZ6L2	-0.032555	6.8256197	-0.503291	0.6268567	0.84807	-6.301377
GTF2H5	-0.042311	10.986726	-0.502862	0.6271469	0.84836	-6.301604
BCAR1	0.0329362	6.7898497	0.5027471	0.6272245	0.84836	-6.301665
SMU1	0.05508	8.6697101	0.5027199	0.6272429	0.84836	-6.30168
SLC35E3	-0.044433	9.4331958	-0.502619	0.6273109	0.84837	-6.301733
COPS5	0.0369806	11.617007	0.5025113	0.6273838	0.84839	-6.30179
RBMS2	0.044754	6.9261214	0.5023724	0.6274777	0.84844	-6.301863
ADAM10	0.0526271	7.373848	0.5022216	0.6275796	0.84846	-6.301943
RFX2	0.0405132	6.9602019	0.5021709	0.6276139	0.84846	-6.30197
TTR	0.0453936	6.8765456	0.5019363	0.6277725	0.84856	-6.302094
BLVRA	-0.051192	7.1909674	-0.501896	0.6277997	0.84856	-6.302115
IP6K3	0.0427406	7.0183795	0.5013647	0.6281589	0.84897	-6.302396
HNRNPA1P1	-0.076645	10.50954	-0.501224	0.6282541	0.84902	-6.30247
GOLPH3	-0.035189	9.8638323	-0.50095	0.6284396	0.84919	-6.302615
C5AR1	0.0356224	6.9084139	0.5005111	0.6287363	0.84951	-6.302846
SLED1	-0.038837	6.874313	-0.50027	0.6288996	0.8496	-6.302974
SUZ12	0.0768335	11.429247	0.5002389	0.6289204	0.8496	-6.30299
FBLN7	-0.033739	6.958412	-0.499856	0.6291796	0.84986	-6.303192
COL11A2	-0.061362	6.9675498	-0.499787	0.6292264	0.84986	-6.303228
CYP4F3	0.0476298	6.7701795	0.4996985	0.6292861	0.84986	-6.303274
ANKRD13D	0.0319355	6.87924	0.4991935	0.6296279	0.8501	-6.30354
OR10G4	0.036477	6.7095602	0.499169	0.6296445	0.8501	-6.303553
ZFYVE27	0.0463956	7.0080022	0.4991167	0.6296799	0.8501	-6.30358
NHLRC2	0.0439784	7.7728549	0.4990327	0.6297368	0.8501	-6.303625
OSCP1	0.0425389	7.3378551	0.4990007	0.6297585	0.8501	-6.303641
NAPG	0.041655	7.7321445	0.4988953	0.6298298	0.85012	-6.303697
SHB	-0.032003	7.032406	-0.498715	0.6299517	0.8502	-6.303791
PLXND1	-0.047349	6.9895368	-0.498515	0.6300876	0.8502	-6.303897
ZBTB41	0.0308877	6.9109443	0.4984871	0.6301062	0.8502	-6.303911
RAB10	-0.071023	11.580008	-0.498341	0.6302051	0.8502	-6.303988
IGFALS	0.0371337	6.95485	0.4983125	0.6302245	0.8502	-6.304003
TRIM15	0.0442478	6.9202416	0.4982899	0.6302398	0.8502	-6.304015
FADS1	0.0363041	7.8469538	0.4981458	0.6303374	0.85026	-6.30409
FLJ44674	-0.050945	6.9872937	-0.497327	0.6308923	0.85088	-6.30452
PGAP1	-0.047453	7.2060651	-0.49729	0.6309174	0.85088	-6.304539
METTL2B	0.0421095	7.0567505	0.4968573	0.6312105	0.8512	-6.304766
SP110	0.0403883	8.3373074	0.4967384	0.6312911	0.85123	-6.304828
MRNIP	-0.03454	6.9897267	-0.495976	0.6318082	0.85179	-6.305227
RAD9A	-0.047791	7.585272	-0.49595	0.6318257	0.85179	-6.30524
ZBED3	0.0373245	6.8548953	0.4957966	0.6319296	0.85185	-6.30532
SEPHS1P1	0.0461466	7.5635143	0.4956751	0.6320121	0.85189	-6.305384
ANAPC16	-0.053633	8.6937991	-0.495415	0.6321888	0.85204	-6.30552
MAPK15	0.0400109	6.9715539	0.4952315	0.632313	0.85213	-6.305615

SLC10A4	0.0345219	6.7848444	0.4950036	0.6324676	0.85226	-6.305734
XYLT1	0.0388915	6.9248179	0.4946582	0.632702	0.85236	-6.305915
DLD	-0.046468	9.9447799	-0.494647	0.6327097	0.85236	-6.30592
GTDC1	0.0373562	7.6958667	0.4945069	0.6328046	0.85236	-6.305993
NLRP5	0.0370983	6.9061227	0.4944615	0.6328355	0.85236	-6.306017
ICA1	-0.036957	7.9875713	-0.494351	0.6329106	0.85236	-6.306075
UBE2E3	0.0351359	7.6678329	0.4943196	0.6329318	0.85236	-6.306091
FBXL14	0.0308102	6.8735024	0.4942197	0.6329996	0.85236	-6.306143
FAM114A2	-0.048037	7.167854	-0.49418	0.6330266	0.85236	-6.306164
ITPR3	-0.044983	11.026909	-0.49412	0.6330674	0.85236	-6.306195
RMND5A	0.049864	7.2288968	0.4939445	0.6331864	0.85242	-6.306286
PRAME	-0.038159	6.8742721	-0.493889	0.6332242	0.85242	-6.306315
DHX36	0.0425368	8.7709103	0.4937197	0.633339	0.85249	-6.306403
SURF4	0.0816665	9.4368315	0.4934603	0.6335152	0.85265	-6.306538
DAND5	-0.046956	6.9015757	-0.493287	0.633633	0.85271	-6.306628
RYR1	0.0333065	6.9355996	0.4932278	0.6336731	0.85271	-6.306659
DACT3	-0.034856	7.1730355	-0.493095	0.6337629	0.85275	-6.306728
MAN1A1	0.0560265	7.444067	0.4929767	0.6338436	0.85278	-6.30679
VPS45	0.0341827	8.7175274	0.4924474	0.6342032	0.85318	-6.307065
MMP10	0.0325665	6.7878588	0.4922754	0.6343201	0.85326	-6.307154
KCNH4	0.031491	6.8878288	0.4920305	0.6344865	0.85339	-6.307281
L3MBTL1	0.0320261	6.8180595	0.491935	0.6345514	0.85339	-6.30733
MRVI1	-0.045674	6.9250887	-0.491792	0.6346489	0.85339	-6.307405
CDH23	-0.039207	6.872181	-0.491791	0.634649	0.85339	-6.307405
NLRC3	-0.045266	7.2101136	-0.491558	0.6348076	0.85344	-6.307526
BICRA	-0.041344	8.1331764	-0.491482	0.634859	0.85344	-6.307565
MRPL45	-0.042068	10.011711	-0.491481	0.6348601	0.85344	-6.307566
SNORA49	-0.053558	6.969464	-0.49097	0.6352072	0.85375	-6.30783
GSPT2	0.0592716	9.3483198	0.4908658	0.6352783	0.85375	-6.307884
SLC16A10	0.0305879	6.7060063	0.4908568	0.6352844	0.85375	-6.307889
MXD3	-0.047229	7.1210563	-0.49072	0.6353771	0.85375	-6.30796
PHF1	0.0343206	7.2863218	0.4906907	0.6353973	0.85375	-6.307975
LINC01816	0.0414774	6.8638175	0.4905974	0.6354608	0.85375	-6.308023
NDFIP1	-0.038736	7.5791832	-0.490467	0.6355497	0.85375	-6.308091
TRIM23	0.0378973	7.3199242	0.4904564	0.6355567	0.85375	-6.308096
DAZ2	-0.034831	7.0957054	-0.490302	0.635662	0.85381	-6.308176
NPC1	0.0325934	8.1460705	0.4901612	0.6357574	0.85385	-6.308249
FAM118A	-0.03821	7.2081664	-0.489968	0.6358887	0.85385	-6.308348
MYOF	-0.030698	6.7666224	-0.489967	0.6358896	0.85385	-6.308349
NFRKB	0.0389727	7.5987231	0.4898442	0.6359731	0.85385	-6.308412
GCNT1	-0.033214	6.8174026	-0.489821	0.6359889	0.85385	-6.308424
PPIL1	0.0546153	10.108902	0.4897207	0.6360572	0.85385	-6.308476
HIRA	-0.036621	6.9689751	-0.489582	0.6361516	0.85385	-6.308548

PCDHB17P	-0.039145	6.7797362	-0.489545	0.6361768	0.85385	-6.308567
MTMR12	0.062394	8.3683701	0.4894392	0.6362488	0.85385	-6.308622
MYL5	0.039125	8.6705602	0.4892865	0.6363527	0.85385	-6.3087
PIK3C2B	0.0384304	7.7997459	0.489227	0.6363931	0.85385	-6.308731
CAV1	0.040509	7.235744	0.4890034	0.6365453	0.85385	-6.308846
TEX19	-0.043512	7.7373455	-0.488991	0.6365539	0.85385	-6.308853
NPPA	0.0398382	7.0408517	0.4889064	0.6366114	0.85385	-6.308896
HMGCS1	0.0406903	11.38175	0.4888876	0.6366241	0.85385	-6.308906
C17orf107	0.0435869	6.9065028	0.4888474	0.6366515	0.85385	-6.308927
SLC16A13	-0.035439	6.9266283	-0.488746	0.6367203	0.85385	-6.308979
GPR182	0.0452711	6.9802133	0.4885496	0.6368542	0.85385	-6.30908
KTI12	0.0455193	9.2985232	0.4884089	0.6369501	0.85385	-6.309153
EPHA8	0.0343843	7.3812449	0.4883766	0.6369721	0.85385	-6.309169
TGFB1I1	-0.039874	6.8347012	-0.488367	0.6369788	0.85385	-6.309174
RFESD	0.035375	6.8300708	0.4882141	0.6370827	0.85385	-6.309253
MUSTN1	0.0349637	7.0309357	0.4881486	0.6371273	0.85385	-6.309287
C3AR1	-0.035727	6.8065623	-0.488076	0.6371768	0.85385	-6.309324
NFATC2IP	0.0387016	7.5496012	0.4880351	0.6372046	0.85385	-6.309345
C3orf62	-0.046003	7.3761009	-0.487969	0.6372495	0.85385	-6.309379
VAX2	0.0347408	7.0110395	0.487931	0.6372755	0.85385	-6.309399
ATP5J	0.0728859	12.117903	0.4878535	0.6373283	0.85385	-6.309439
RAB40A	-0.035204	6.8182698	-0.487764	0.6373893	0.85385	-6.309485
METTL12	-0.045955	7.0955822	-0.487631	0.63748	0.85389	-6.309553
C16orf70	-0.040819	7.4801592	-0.486995	0.6379132	0.85434	-6.30988
TRIM14	0.0314955	7.0457123	0.4869711	0.6379294	0.85434	-6.309892
FOXI3	0.0584979	7.2832674	0.4867993	0.6380465	0.85442	-6.30998
CMTM6	-0.039296	9.4202026	-0.486504	0.6382477	0.85461	-6.310132
BTBD7	-0.032866	7.5267167	-0.486227	0.6384366	0.85478	-6.310274
BROX	0.0529996	6.8569422	0.4861099	0.6385164	0.85481	-6.310334
KCTD11	-0.039756	7.1966614	-0.485756	0.6387576	0.85505	-6.310516
CDH16	0.0366398	6.8639038	0.4856749	0.638813	0.85505	-6.310557
SOCS4	-0.037811	7.6251546	-0.485462	0.6389582	0.85517	-6.310666
DDX1	-0.031848	11.684736	-0.485204	0.6391342	0.85532	-6.310798
LOC400940	0.0324584	6.8189923	0.4849582	0.6393018	0.85538	-6.310924
EID1	-0.036037	7.5926568	-0.484941	0.6393133	0.85538	-6.310933
MAPK8	-0.034939	6.9750965	-0.484885	0.6393519	0.85538	-6.310962
PEBP1	-0.046032	11.489523	-0.484651	0.639511	0.85541	-6.311081
NCAPD3	-0.036353	8.3495704	-0.484597	0.6395485	0.85541	-6.311109
MON2	0.0405203	8.4183971	0.4845949	0.6395496	0.85541	-6.31111
IDS	0.0408264	9.1402366	0.484393	0.6396873	0.85548	-6.311213
HOXD3	0.0484246	7.1377854	0.4843414	0.6397226	0.85548	-6.31124
RPL7A	0.0631152	12.723269	0.4841479	0.6398546	0.85558	-6.311338
KBTBD8	0.0740622	9.2675885	0.4837427	0.6401311	0.85568	-6.311545

B3GALNT1	-0.029548	6.8184002	-0.483733	0.6401377	0.85568	-6.31155
PRDM4	0.0424865	9.8663467	0.4837277	0.6401414	0.85568	-6.311553
BNIP2	0.0418621	9.0160832	0.483696	0.640163	0.85568	-6.311569
SLCO1C1	0.0310317	6.8702733	0.4835194	0.6402836	0.85569	-6.311659
SOX21	0.0356228	6.9315531	0.483512	0.6402887	0.85569	-6.311663
RPS19	0.047892	14.350344	0.483112	0.6405618	0.85598	-6.311867
KLF4	-0.030211	6.8961371	-0.482774	0.6407924	0.85604	-6.312039
ABHD17A	-0.030433	6.763294	-0.482754	0.6408065	0.85604	-6.31205
CNTROB	0.0531295	7.1336614	0.4826867	0.6408521	0.85604	-6.312084
BUB1	-0.036261	10.265995	-0.482627	0.6408932	0.85604	-6.312114
UVSSA	0.0454215	7.9494106	0.4825946	0.640915	0.85604	-6.312131
CABP1	-0.0321	6.8679963	-0.482412	0.64104	0.85604	-6.312224
PLD3	-0.036102	7.5253049	-0.482385	0.6410582	0.85604	-6.312237
ASB16-AS1	-0.039982	6.9838875	-0.482361	0.6410748	0.85604	-6.31225
FAR2	0.0343563	6.8039673	0.482139	0.6412263	0.85611	-6.312363
CFC1B	0.0343889	6.9765961	0.4821042	0.64125	0.85611	-6.31238
ZKSCAN3	-0.042144	7.6773296	-0.48174	0.6414986	0.85622	-6.312565
TMEM160	-0.037294	9.964134	-0.481706	0.6415223	0.85622	-6.312583
KDM5B	0.0460274	7.1805717	0.4815978	0.641596	0.85622	-6.312638
ALPI	0.0383981	6.9913378	0.4815815	0.6416072	0.85622	-6.312646
KRBA1	0.0371665	8.3034662	0.481558	0.6416232	0.85622	-6.312658
GPAT2	-0.062296	7.4725044	-0.481142	0.6419077	0.8564	-6.312869
AP2A2	-0.038752	7.154702	-0.48092	0.642059	0.8564	-6.312982
LOC645202	0.0340241	6.7415506	0.4807872	0.64215	0.8564	-6.313049
BDNF-AS	0.0337963	6.8505257	0.4807335	0.6421868	0.8564	-6.313077
SMCR5	0.0754002	8.0982738	0.4807298	0.6421893	0.8564	-6.313078
STARD5	-0.03992	7.5436053	-0.480669	0.6422308	0.8564	-6.313109
APOBEC3F	0.0335928	8.0098762	0.480599	0.6422787	0.8564	-6.313145
PLXNA3	0.0300923	6.9351844	0.480461	0.642373	0.8564	-6.313215
CCDC127	-0.044814	7.6824475	-0.480428	0.6423954	0.8564	-6.313231
PLS3	0.0307034	6.7773329	0.4804254	0.6423974	0.8564	-6.313233
PTPRH	-0.0362	6.7703504	-0.480421	0.6424007	0.8564	-6.313235
SFXN1	0.0495574	9.6467797	0.4802755	0.6424999	0.85645	-6.313309
BCAS2	-0.041135	7.1033736	-0.480124	0.6426036	0.85646	-6.313386
SPC25	0.0564856	7.8136274	0.4800422	0.6426594	0.85646	-6.313427
PCP2	0.0384046	6.9256326	0.4800038	0.6426857	0.85646	-6.313447
ZNF675	0.0326938	7.0270077	0.4798229	0.6428095	0.85649	-6.313538
RNF20	0.0447959	9.4233918	0.4795563	0.6429918	0.85649	-6.313673
CEP192	-0.04274	7.9649516	-0.479521	0.6430156	0.85649	-6.313691
MCEMP1	0.0439808	6.7874099	0.4795177	0.6430182	0.85649	-6.313693
KCNMA1	0.0460563	8.4921705	0.4794606	0.6430573	0.85649	-6.313722
CD163L1	-0.033405	6.7108496	-0.47946	0.6430574	0.85649	-6.313722
GPR173	-0.044922	6.8074304	-0.479241	0.6432076	0.85652	-6.313833

SCRN3	-0.036323	6.9666523	-0.479191	0.6432414	0.85652	-6.313858
TNFSF11	0.0391041	7.0185006	0.4791754	0.6432524	0.85652	-6.313866
NCSTN	0.0464119	9.9369994	0.4787727	0.6435279	0.85675	-6.31407
NRSN2	-0.043969	7.6603125	-0.478749	0.6435442	0.85675	-6.314082
CD109	-0.035971	6.7746984	-0.478603	0.6436439	0.8568	-6.314155
CHRNA3	0.0359647	6.8509698	0.4783823	0.6437951	0.85693	-6.314267
ASB3	-0.038363	8.7661221	-0.478244	0.6438895	0.85697	-6.314336
ERV3-1	0.0386945	6.7698267	0.4777274	0.6442434	0.85737	-6.314597
CREB3L3	0.030427	6.7917399	0.4775481	0.6443662	0.85745	-6.314688
TMEM187	-0.03312	6.9310175	-0.47732	0.6445226	0.85749	-6.314803
TMEM52	0.0389149	7.3348578	0.4771536	0.6446364	0.85749	-6.314887
PNMA1	-0.046891	7.3694946	-0.477108	0.6446676	0.85749	-6.314909
RPS6KB2	-0.047209	9.1785953	-0.477052	0.6447062	0.85749	-6.314938
LOC730101	0.0348523	6.9491736	0.4770379	0.6447156	0.85749	-6.314945
FAM92A	0.0301573	6.780771	0.4769868	0.6447506	0.85749	-6.314971
TOPORS	-0.033665	7.5275977	-0.476904	0.644807	0.85749	-6.315012
FAM86HP	-0.045666	9.067385	-0.476446	0.6451213	0.85783	-6.315243
NDST1	0.0438292	7.4069508	0.4762556	0.6452516	0.8579	-6.315339
ATP12A	0.0463137	6.9208866	0.476202	0.6452884	0.8579	-6.315366
ZNF804A	0.0314721	7.3156817	0.4761077	0.6453529	0.8579	-6.315413
LIN37	0.0327831	7.152868	0.4757895	0.645571	0.85812	-6.315573
ILDR2	0.0399356	6.9474141	0.4754505	0.6458034	0.85835	-6.315743
DOCK5	0.0311929	6.7566452	0.4750989	0.6460445	0.85859	-6.31592
GAL3ST4	-0.039076	6.9966509	-0.474858	0.6462099	0.85866	-6.316041
FAM197Y2	-0.032172	6.9154338	-0.474847	0.6462171	0.85866	-6.316046
IL18	-0.112592	12.25491	-0.47448	0.6464689	0.85886	-6.31623
STX11	-0.04011	8.1066159	-0.474401	0.6465229	0.85886	-6.316269
LGALS14	-0.0518	7.3702095	-0.474325	0.6465753	0.85886	-6.316308
MSC	0.0295921	6.7605842	0.4742477	0.6466282	0.85886	-6.316346
ME1	-0.030176	6.8277775	-0.474201	0.64666	0.85886	-6.31637
KPNA2	0.0398949	9.2848619	0.4738257	0.6469177	0.85912	-6.316558
FAH	0.0304721	6.8101394	0.4733462	0.6472467	0.85948	-6.316797
JAG1	0.0385924	6.9068651	0.4732279	0.6473279	0.85951	-6.316857
LEO1	0.0495268	7.8317269	0.4730102	0.6474773	0.85963	-6.316965
TRAF2	0.0481961	7.3907775	0.4729287	0.6475332	0.85963	-6.317006
PPP2R3A	-0.037626	7.2180875	-0.472668	0.6477123	0.85966	-6.317136
PTMS	0.0304209	6.805954	0.4724773	0.6478431	0.85966	-6.317232
TMOD1	-0.030248	6.8017767	-0.472442	0.6478677	0.85966	-6.317249
FAM43A	0.0310892	6.8814235	0.4724025	0.6478945	0.85966	-6.317269
KCNAB2	0.0341333	7.0715567	0.4723999	0.6478963	0.85966	-6.31727
TM7SF2	0.0703015	8.9093938	0.4722957	0.6479678	0.85966	-6.317322
CCT8L1P	-0.035595	7.048145	-0.472288	0.6479728	0.85966	-6.317326
ZNF43	0.0326541	6.8310434	0.4720996	0.6481025	0.85976	-6.31742

RAD18	-0.036736	7.0538038	-0.471998	0.6481726	0.85977	-6.317471
WDR4	0.0334519	9.0655469	0.4718339	0.648285	0.85984	-6.317552
PSTPIP2	0.0392552	6.7127607	0.4717297	0.6483565	0.85986	-6.317604
CSMD1	-0.039228	6.9536697	-0.471375	0.6486001	0.86003	-6.317781
EPHX2	0.0356352	6.8341829	0.4713729	0.6486016	0.86003	-6.317782
GNAZ	-0.05204	6.9503563	-0.471144	0.6487591	0.86015	-6.317896
ANTXR2	-0.034709	6.8170119	-0.471055	0.6488199	0.86015	-6.31794
FAM184A	-0.031988	6.8686965	-0.470984	0.6488688	0.86015	-6.317976
UPK1A	-0.029178	6.8083638	-0.470714	0.6490546	0.86032	-6.31811
TBX10	0.0343101	6.8862427	0.4703258	0.6493211	0.86059	-6.318303
NLRX1	0.0292965	7.8925218	0.4699755	0.6495619	0.86074	-6.318477
UBE2A	-0.035597	8.6012779	-0.469916	0.6496028	0.86074	-6.318507
NCBP2	-0.036541	8.5569644	-0.469909	0.6496074	0.86074	-6.31851
OPN5	0.0367962	6.879689	0.4697375	0.6497255	0.86076	-6.318595
UFSP2	-0.040963	9.8037142	-0.469673	0.64977	0.86076	-6.318627
GTPBP4	-0.051835	11.920607	-0.469629	0.6497999	0.86076	-6.318649
ARHGEF3	-0.03241	8.7141681	-0.469431	0.6499365	0.86079	-6.318748
LIMK1	0.0329196	6.9214659	0.4694208	0.6499433	0.86079	-6.318752
PARK7	0.0367405	13.291888	0.4692978	0.6500278	0.86083	-6.318813
FAM72B	0.0439502	8.0483919	0.4691242	0.6501472	0.86087	-6.318899
UBE2E2	-0.042605	9.9620508	-0.469077	0.6501796	0.86087	-6.318923
CD96	-0.038549	6.8699396	-0.468601	0.6505069	0.86116	-6.319159
ZNF611	-0.042479	6.9557433	-0.468573	0.6505265	0.86116	-6.319173
EML2	0.0419483	7.6772926	0.4685021	0.6505751	0.86116	-6.319208
ANKS3	-0.040975	7.0962458	-0.468378	0.6506605	0.86119	-6.319269
PRKAG1	0.0338603	8.5602533	0.4681943	0.6507869	0.86128	-6.31936
CD44	-0.030143	6.7764029	-0.467881	0.6510022	0.86142	-6.319515
MXD1	-0.044072	7.100043	-0.467776	0.6510747	0.86142	-6.319567
SLC25A46	-0.044263	10.229789	-0.467773	0.6510768	0.86142	-6.319568
MED15	0.0309957	6.9110403	0.4675588	0.6512242	0.86142	-6.319674
MTCL1	0.0293087	6.8023612	0.4675358	0.6512401	0.86142	-6.319686
BORCS8-ME	-0.067729	7.563079	-0.467526	0.6512466	0.86142	-6.31969
ZNF823	-0.042001	7.7893376	-0.467334	0.6513787	0.86149	-6.319785
TMEM254	-0.042813	7.6766789	-0.467285	0.651413	0.86149	-6.31981
F2R	-0.034702	10.454414	-0.466984	0.6516201	0.86168	-6.319958
SECISBP2L	-0.035278	7.8181064	-0.466852	0.651711	0.86173	-6.320023
ZNF682	0.0388041	8.8814948	0.4662893	0.6520983	0.86208	-6.320301
NFIX	0.0320217	6.7315842	0.4662509	0.6521248	0.86208	-6.32032
ATXN3	0.0316913	7.2369454	0.4662003	0.6521596	0.86208	-6.320345
ACOT4	-0.034081	6.725844	-0.466103	0.6522268	0.86208	-6.320393
SNORD88B	0.0467119	6.9702734	0.4660305	0.6522766	0.86208	-6.320428
CEP250	-0.035878	6.932438	-0.465612	0.6525648	0.86232	-6.320634
CHST10	0.0345655	7.5060441	0.4656016	0.6525721	0.86232	-6.32064

KLHL11	0.0294747	6.9185544	0.4654026	0.6527092	0.86241	-6.320737
PRR19	0.0470007	6.9172862	0.4653223	0.6527645	0.86241	-6.320777
HMGB3	0.0406441	7.6169843	0.4651459	0.652886	0.86247	-6.320864
GAS1	-0.030523	6.8845515	-0.465035	0.6529627	0.86247	-6.320918
PM20D2	-0.058264	8.7828438	-0.465009	0.6529805	0.86247	-6.320931
PELI2	-0.038719	6.7196604	-0.464813	0.6531157	0.86255	-6.321028
LPAR4	-0.032261	6.8695377	-0.464747	0.6531613	0.86255	-6.32106
EFCAB7	-0.030996	7.1897707	-0.46445	0.6533658	0.86273	-6.321206
ZNF235	-0.040083	6.9628745	-0.464225	0.6535206	0.86273	-6.321316
LINC00968	0.0322027	6.8746401	0.4641229	0.6535912	0.86273	-6.321366
THAP11	0.0557908	10.676583	0.4640903	0.6536137	0.86273	-6.321382
OAZ1	-0.037657	14.225147	-0.463973	0.6536945	0.86273	-6.32144
FBXL12	0.0316086	8.0478463	0.4639664	0.6536991	0.86273	-6.321443
SUMO1P1	-0.029861	6.8286951	-0.463932	0.653723	0.86273	-6.32146
ZNF169	-0.030216	6.9141565	-0.463863	0.6537707	0.86273	-6.321494
VAV3	0.0330309	6.8263482	0.4637078	0.6538775	0.86279	-6.32157
CDC42EP2	-0.03327	7.519466	-0.463556	0.6539823	0.86285	-6.321644
PHKA2	0.0565705	8.6888395	0.4633686	0.6541114	0.86294	-6.321736
RSPO3	0.0357881	6.8198915	0.4631562	0.6542579	0.86306	-6.32184
PNMA3	-0.034718	6.7672704	-0.463026	0.654348	0.86308	-6.321904
RIPK4	-0.036223	7.062861	-0.462962	0.6543918	0.86308	-6.321935
ANKRD24	0.0479494	7.0913113	0.4626257	0.6546239	0.86327	-6.3221
ANKRD28	0.0409859	7.9836749	0.4625825	0.6546537	0.86327	-6.322121
GPR63	0.0327978	6.768563	0.4621525	0.6549505	0.86356	-6.322331
ATP6V0D2	-0.063858	7.0873933	-0.462097	0.6549888	0.86356	-6.322358
TXNDC15	-0.05383	8.1594991	-0.461829	0.6551735	0.86372	-6.322489
LIG4	-0.043368	7.158501	-0.461542	0.6553722	0.86385	-6.32263
SDC4	-0.029857	6.8022771	-0.461512	0.6553927	0.86385	-6.322644
METTL9	-0.035352	7.4560894	-0.461417	0.6554579	0.86386	-6.32269
CC2D2A	0.0283005	6.8011747	0.460959	0.6557744	0.8642	-6.322914
RASA2	-0.03728	6.9744342	-0.460844	0.6558542	0.86423	-6.32297
HSD17B13	0.0335859	6.7778131	0.4605624	0.6560483	0.86434	-6.323107
ATP9B	-0.035531	7.1073528	-0.460514	0.6560815	0.86434	-6.32313
U2SURP	0.0486088	8.9841127	0.4604103	0.6561534	0.86434	-6.323181
NT5C	-0.07378	10.235863	-0.460382	0.6561732	0.86434	-6.323195
PELI3	0.0378402	6.815363	0.4601561	0.656329	0.86446	-6.323305
MAGEE1	0.0320296	6.8598471	0.4600332	0.6564139	0.8645	-6.323365
ZNF587	0.0283529	6.8893034	0.4599182	0.6564934	0.86452	-6.323421
ZNF256	-0.038914	6.7549687	-0.459792	0.6565807	0.86456	-6.323482
SCARNA7	-0.036306	7.0835878	-0.459511	0.6567749	0.86465	-6.323619
RSPH3	0.0364366	7.1098851	0.4592849	0.656931	0.86465	-6.323729
GPX2	-0.036073	6.823733	-0.459273	0.6569395	0.86465	-6.323735
CDK17	0.0395756	7.1090449	0.4592336	0.6569665	0.86465	-6.323753

SNORD113-	-0.052709	6.8833302	-0.459109	0.6570529	0.86465	-6.323814
CTTN	0.0340581	7.4807679	0.4590576	0.6570881	0.86465	-6.323839
SAP30L	-0.039737	8.4119683	-0.458872	0.6572165	0.86465	-6.323929
AK9	-0.028259	6.9368785	-0.458862	0.6572233	0.86465	-6.323934
B3GNT4	0.045399	6.8448628	0.4588571	0.6572267	0.86465	-6.323936
ROS1	-0.030755	6.77315	-0.458763	0.6572919	0.86465	-6.323982
C2orf82	-0.0409	6.9499626	-0.458582	0.6574169	0.86465	-6.32407
NCBP1	-0.036325	10.123952	-0.458569	0.657426	0.86465	-6.324076
RNASE6	-0.035135	6.881828	-0.458433	0.6575199	0.86465	-6.324142
TTC17	0.0538991	8.3206003	0.4584307	0.6575215	0.86465	-6.324143
COL12A1	-0.035742	6.9058428	-0.458405	0.657539	0.86465	-6.324155
C2CD3	0.0295999	6.8015781	0.4580807	0.6577635	0.86487	-6.324313
PLEKHH1	0.0305319	6.823357	0.4577972	0.6579596	0.86503	-6.32445
B4GALT3	-0.034593	9.7423455	-0.457735	0.6580027	0.86503	-6.32448
CXorf40A	-0.029471	8.2368209	-0.457618	0.6580837	0.86506	-6.324537
THRSP	-0.031452	6.7792291	-0.457487	0.6581743	0.86509	-6.3246
GSTZ1	-0.044614	8.0160137	-0.457345	0.6582727	0.86509	-6.324669
HOXA10	-0.028157	6.8165812	-0.457322	0.6582886	0.86509	-6.32468
IKBKB	0.0359677	7.5178495	0.4572432	0.6583428	0.86509	-6.324718
SAMD10	0.0307026	7.0341894	0.4571474	0.6584091	0.8651	-6.324765
C1orf216	-0.039469	7.4108394	-0.456938	0.6585542	0.86514	-6.324866
SNORA56	-0.045529	7.0353578	-0.456794	0.6586537	0.86514	-6.324936
GPX8	-0.031774	7.0302989	-0.456793	0.6586546	0.86514	-6.324936
MAD2L1BP	0.0322101	8.8502248	0.4567361	0.6586938	0.86514	-6.324964
SLC35E2	-0.035179	6.8036619	-0.456675	0.6587361	0.86514	-6.324993
C19orf12	-0.04183	8.7581555	-0.456585	0.6587983	0.86514	-6.325037
TM6SF1	-0.028904	6.7623243	-0.456295	0.6589992	0.86533	-6.325177
PRTG	-0.031624	6.7606757	-0.456017	0.6591914	0.86538	-6.325311
FEZ1	-0.030068	6.9208205	-0.45599	0.6592101	0.86538	-6.325324
PDCD2	-0.031732	10.492777	-0.455715	0.6594007	0.86538	-6.325457
DENR	-0.034597	9.8328851	-0.45571	0.6594037	0.86538	-6.325459
ENDOV	0.028761	6.7789528	0.4555409	0.6595211	0.86538	-6.32554
SPINT3	-0.03126	6.9894385	-0.455377	0.6596344	0.86538	-6.325619
LOC1005072	0.0532203	7.2735796	0.4553617	0.6596452	0.86538	-6.325627
IKBKG	0.0345101	9.1144347	0.4553467	0.6596556	0.86538	-6.325634
MAPK1	-0.031758	7.8753569	-0.455218	0.659745	0.86538	-6.325696
GNPDA2	-0.031169	7.5701631	-0.455174	0.6597751	0.86538	-6.325717
WASH2P	0.0478859	7.6776042	0.4551549	0.6597884	0.86538	-6.325726
NTHL1	0.0399076	9.4154678	0.4551174	0.6598144	0.86538	-6.325744
APLF	0.0511292	7.0798668	0.4550793	0.6598408	0.86538	-6.325763
TMEM174	-0.057596	7.0911341	-0.455035	0.6598717	0.86538	-6.325784
MPPE1	-0.029782	7.8835215	-0.454845	0.660003	0.86541	-6.325876
LOC260339	-0.038011	6.851633	-0.454835	0.6600096	0.86541	-6.32588

HIVEP3	0.0372438	7.1009695	0.4544942	0.6602461	0.86554	-6.326044
DYRK4	-0.049348	9.8904378	-0.454419	0.660298	0.86554	-6.32608
RASA4CP	0.0351384	7.7897018	0.454408	0.6603058	0.86554	-6.326086
SLC16A6	0.0378673	8.6037294	0.4543516	0.6603449	0.86554	-6.326113
PTPRR	0.0395383	7.0110519	0.4541737	0.6604681	0.86562	-6.326199
COA7	-0.035924	8.4885605	-0.45354	0.6609074	0.86612	-6.326503
TXNDC2	0.0473858	6.7927612	0.4531362	0.6611872	0.86641	-6.326697
CAMK1G	-0.04974	7.8616925	-0.452989	0.661289	0.86646	-6.326767
COMT	-0.030889	9.2773742	-0.452866	0.6613746	0.8665	-6.326826
PIK3CB	0.0368892	7.8178494	0.4525574	0.6615885	0.8666	-6.326974
SPATA2L	0.0399028	8.0913955	0.4525478	0.6615952	0.8666	-6.326979
SORBS3	-0.02813	6.785031	-0.452376	0.6617145	0.8666	-6.327061
TBC1D23	0.0306029	7.4973363	0.4523525	0.6617306	0.8666	-6.327072
TNFRSF8	0.0434126	7.0042659	0.4523197	0.6617534	0.8666	-6.327088
SDHAF1	-0.043982	8.9102253	-0.45219	0.6618436	0.86661	-6.32715
USP35	-0.033313	6.9604746	-0.452142	0.6618765	0.86661	-6.327173
DDX46	-0.057722	9.2787836	-0.452031	0.6619537	0.86661	-6.327226
HPDL	0.030042	6.7874922	0.4519748	0.6619926	0.86661	-6.327253
AMDHD1	-0.038606	6.8865645	-0.45175	0.6621485	0.86663	-6.327361
AGMAT	0.037606	6.7800275	0.4517259	0.6621653	0.86663	-6.327372
GSR	0.0359898	7.8392159	0.451696	0.662186	0.86663	-6.327386
QTRT1	0.0498695	8.0821984	0.4515794	0.6622669	0.86665	-6.327442
ARFGEF2	-0.030694	7.694322	-0.451159	0.6625589	0.86669	-6.327643
MIR1470	0.0368019	6.8677833	0.4511106	0.6625922	0.86669	-6.327666
SATL1	0.0380907	6.9586881	0.4510458	0.6626372	0.86669	-6.327697
AMMECR1L	-0.064665	8.0579512	-0.450975	0.6626862	0.86669	-6.327731
KCNK4	0.0294053	7.0479092	0.4508767	0.6627545	0.86669	-6.327778
PSAP	-0.066582	11.315051	-0.450548	0.6629827	0.86669	-6.327935
POLR2E	0.0335431	7.9867696	0.4505456	0.6629844	0.86669	-6.327936
LINC00853	0.0391121	6.8064232	0.4504632	0.6630415	0.86669	-6.327975
BMS1P20	-0.035557	7.6088658	-0.450421	0.6630709	0.86669	-6.327995
LEFTY2	0.0316797	6.8860263	0.450287	0.6631639	0.86669	-6.328059
SFXN5	-0.030338	6.9505386	-0.450252	0.6631883	0.86669	-6.328076
ARHGAP27	0.0316739	6.9131676	0.4501497	0.6632592	0.86669	-6.328125
HSF1	0.0332883	7.0994002	0.4501093	0.6632873	0.86669	-6.328144
FAM111B	-0.033798	6.9205745	-0.450093	0.6632982	0.86669	-6.328151
EVX1	-0.044269	6.8863738	-0.449725	0.6635542	0.86669	-6.328327
TP53I3	0.029718	7.0718762	0.4496096	0.6636342	0.86669	-6.328382
C1orf74	-0.038525	8.4495692	-0.449598	0.6636424	0.86669	-6.328388
ACSL4	-0.049075	8.493571	-0.449543	0.6636801	0.86669	-6.328413
OSBPL9	0.0373292	9.5865861	0.449462	0.6637367	0.86669	-6.328452
DKC1	0.0440471	11.863127	0.4493694	0.6638011	0.86669	-6.328496
FASTKD2	0.0462177	8.4743979	0.4493368	0.6638237	0.86669	-6.328512

PIAS3	0.0454274	7.7299804	0.4492495	0.6638843	0.86669	-6.328553
KAT5	0.0304483	7.2746194	0.4491925	0.6639239	0.86669	-6.32858
CCDC54	-0.040653	6.9299947	-0.449125	0.6639707	0.86669	-6.328612
SBF2	-0.036462	7.3535622	-0.44907	0.6640092	0.86669	-6.328639
NXPE3	-0.033367	6.8402425	-0.449027	0.6640391	0.86669	-6.328659
TRAF3IP3	-0.03152	6.9119444	-0.448982	0.6640698	0.86669	-6.32868
GOT1	0.0504758	11.178211	0.448976	0.6640743	0.86669	-6.328683
DUSP5P1	-0.033185	6.9856505	-0.448939	0.6640998	0.86669	-6.328701
KIF26A	0.0303437	6.8887547	0.4489017	0.6641259	0.86669	-6.328719
CSNK2A3	0.0291155	8.0626091	0.4488848	0.6641377	0.86669	-6.328727
OR2A1	-0.030011	6.8972723	-0.448682	0.6642785	0.86673	-6.328823
CGB3	0.0488308	6.9357294	0.4486038	0.6643329	0.86673	-6.32886
RBM19	0.0595722	7.1504638	0.4485216	0.66439	0.86673	-6.328899
SLC2A8	-0.042877	9.4927529	-0.448506	0.6644006	0.86673	-6.328907
MRPS24	-0.035054	11.345585	-0.448339	0.6645168	0.8668	-6.328986
THEG	0.0312217	6.8660262	0.4482102	0.6646064	0.86684	-6.329047
HSD17B6	-0.034082	8.1587921	-0.448088	0.6646911	0.86687	-6.329105
ITK	0.0279122	6.8488474	0.4479919	0.6647581	0.86687	-6.329151
PPT1	-0.039669	11.800024	-0.447922	0.664807	0.86687	-6.329184
CERCAM	0.0298833	6.9352956	0.4474925	0.6651052	0.86711	-6.329388
FXYD2	-0.03953	6.9364503	-0.447484	0.6651112	0.86711	-6.329392
RRP8	0.0417517	9.6540978	0.4472939	0.6652433	0.8672	-6.329482
POLR2J2	0.033717	9.2624391	0.4469319	0.665495	0.86746	-6.329653
DDX52	-0.040093	8.2512083	-0.446718	0.6656438	0.86748	-6.329754
CNKSR1	-0.04677	7.0386271	-0.446632	0.6657033	0.86748	-6.329795
IGFBP2	-0.029517	6.8259498	-0.446615	0.6657154	0.86748	-6.329803
YJEFN3	-0.030167	6.9567412	-0.446489	0.6658028	0.86748	-6.329862
GALNT9	-0.03376	6.8618831	-0.446474	0.6658132	0.86748	-6.32987
CD59	-0.043005	8.2575764	-0.446354	0.6658966	0.86748	-6.329926
SCARNA10	-0.04408	8.5510842	-0.446308	0.6659287	0.86748	-6.329948
MLC1	-0.027888	6.8898852	-0.445935	0.6661887	0.86773	-6.330125
HIST1H4B	0.04755	7.0737361	0.4456992	0.6663525	0.86773	-6.330236
MIR1237	0.0326535	6.8976668	0.4455944	0.6664253	0.86773	-6.330285
SERPINA11	-0.028102	6.9844199	-0.445532	0.666469	0.86773	-6.330315
BCKDK	-0.060503	10.765796	-0.445468	0.6665136	0.86773	-6.330345
MEI1	-0.032389	6.8470377	-0.445445	0.6665292	0.86773	-6.330356
ZC3HAV1L	-0.030454	6.9182691	-0.445437	0.6665347	0.86773	-6.330359
IGFBP1	-0.030531	6.9824769	-0.445294	0.6666344	0.86778	-6.330427
LRRC26	0.0394427	7.2439835	0.4451529	0.6667326	0.86783	-6.330494
BEX1	0.0301552	6.8408184	0.4448141	0.6669685	0.86799	-6.330653
FAM53A	0.0384676	6.9601329	0.4447601	0.667006	0.86799	-6.330679
TSC1	-0.030689	8.0438186	-0.444669	0.6670695	0.86799	-6.330722
NAP1L1	-0.036977	9.6920431	-0.444595	0.6671212	0.86799	-6.330757

MID1	0.0300576	6.8539647	0.4445478	0.6671538	0.86799	-6.330779
PTGER2	0.0328264	6.7145954	0.4443516	0.6672904	0.86809	-6.330871
PCYOX1L	-0.035558	7.8824602	-0.444266	0.6673503	0.86809	-6.330912
HS6ST1	0.0343922	6.942203	0.4441205	0.6674513	0.86809	-6.33098
PRICKLE4	0.0794849	12.144062	0.4440949	0.6674691	0.86809	-6.330992
LINC01011	-0.031254	6.9291653	-0.443985	0.6675458	0.86811	-6.331044
ENOSF1	-0.031656	6.7155281	-0.443733	0.6677211	0.86824	-6.331162
B3GNT6	-0.034564	6.9633377	-0.443676	0.6677608	0.86824	-6.331189
HDAC5	-0.02846	6.8823637	-0.443105	0.6681584	0.86839	-6.331457
FAM187B	-0.029551	7.0486313	-0.443103	0.6681599	0.86839	-6.331458
FAM98B	-0.029398	7.0603465	-0.443082	0.6681744	0.86839	-6.331468
SIDT2	-0.048115	10.353533	-0.443078	0.6681771	0.86839	-6.33147
JAKMIP2	0.0309032	7.3826573	0.4430762	0.6681787	0.86839	-6.331471
CD244	-0.029335	6.7998778	-0.442639	0.668483	0.86871	-6.331676
CARD10	-0.027016	6.7918728	-0.44256	0.6685383	0.86871	-6.331713
KDR	0.0346882	6.9305529	0.4424086	0.6686438	0.86873	-6.331784
MRPS26	0.0353245	10.59683	0.4423676	0.6686724	0.86873	-6.331803
RPRD1B	0.0298782	8.1009285	0.4420656	0.6688829	0.86886	-6.331945
CFAP97	0.0503456	7.8168892	0.4418688	0.6690201	0.86886	-6.332037
LOC1001305	-0.028066	6.8579421	-0.441867	0.6690212	0.86886	-6.332038
PDXDC1	-0.03075	10.200692	-0.441691	0.6691443	0.86886	-6.33212
CNOT7	0.0293648	8.6120791	0.4416616	0.6691645	0.86886	-6.332134
TPBG	-0.028842	6.9080982	-0.441556	0.6692381	0.86886	-6.332183
AHNAK2	0.0358018	6.8706107	0.4414549	0.6693086	0.86886	-6.33223
PDRG1	0.0318117	9.5149244	0.4413974	0.6693487	0.86886	-6.332257
ZNF618	-0.031718	6.7427266	-0.441363	0.6693727	0.86886	-6.332273
ZNF711	-0.038526	7.199558	-0.441314	0.669407	0.86886	-6.332296
AARS	-0.053852	12.346067	-0.441276	0.6694336	0.86886	-6.332314
WDR44	0.0315545	7.1817314	0.4408835	0.6697071	0.86905	-6.332498
TMX2	0.034852	10.893694	0.4407894	0.6697727	0.86905	-6.332542
IMPAD1	-0.028346	8.3344585	-0.440769	0.6697869	0.86905	-6.332551
KNOP1	0.0283663	7.7826164	0.4407269	0.6698163	0.86905	-6.332571
ADORA3	-0.028808	6.818473	-0.439962	0.6703498	0.86936	-6.332928
BDP1	0.0511754	7.1429741	0.4398615	0.67042	0.86936	-6.332975
SCFD1	-0.036417	9.8637057	-0.439726	0.6705142	0.86936	-6.333038
DENND4B	0.0436248	8.5809284	0.4397104	0.6705254	0.86936	-6.333045
COLEC11	0.0336403	7.0786075	0.4396658	0.6705565	0.86936	-6.333066
CARMIL3	-0.029963	7.0434286	-0.439528	0.6706527	0.86936	-6.33313
UNC13A	0.0331742	6.9399291	0.4394817	0.670685	0.86936	-6.333152
LINC00656	0.0370879	6.9407691	0.4394574	0.670702	0.86936	-6.333163
IPMK	0.0342136	6.8836827	0.4393767	0.6707583	0.86936	-6.3332
TRIM22	-0.028058	7.904538	-0.439298	0.6708131	0.86936	-6.333237
RRAD	-0.033394	6.7937966	-0.43922	0.6708676	0.86936	-6.333273

5-Mar	-0.030028	7.7032765	-0.439177	0.6708974	0.86936	-6.333293
BTBD10	-0.034665	8.8018685	-0.439148	0.670918	0.86936	-6.333307
SGSM3	-0.0389	7.3079207	-0.439132	0.6709294	0.86936	-6.333315
FTSJ1	0.0348662	8.9020321	0.4390416	0.6709922	0.86936	-6.333357
MBOAT1	-0.031638	6.8679407	-0.439018	0.6710088	0.86936	-6.333368
PRR7	0.0496689	7.8784953	0.438849	0.6711266	0.86936	-6.333446
IGDCC3	0.033138	6.9221774	0.4386882	0.6712389	0.86936	-6.333521
RGPD1	-0.030141	6.7907285	-0.438674	0.671249	0.86936	-6.333528
CBR1	-0.030498	6.7683662	-0.438614	0.6712908	0.86936	-6.333555
LGALS9	0.030091	6.7865643	0.4384197	0.6714264	0.86936	-6.333646
CCDC47	0.0379736	8.707929	0.4383247	0.6714927	0.86936	-6.33369
SERHL	0.0298535	7.1304899	0.4382636	0.6715353	0.86936	-6.333718
PSTPIP1	-0.036471	6.7003188	-0.438104	0.6716467	0.86936	-6.333792
PHF10	0.0312553	7.8173552	0.4379658	0.6717433	0.86936	-6.333857
TRIP6	0.035718	7.084783	0.4379444	0.6717582	0.86936	-6.333866
SCGB3A2	0.0411357	6.931285	0.4379156	0.6717784	0.86936	-6.33388
ACPT	-0.054275	7.1174387	-0.437871	0.6718093	0.86936	-6.3339
SYCE2	0.0300349	6.9501071	0.4378438	0.6718285	0.86936	-6.333913
GLO1	-0.059312	12.510019	-0.437824	0.6718421	0.86936	-6.333922
ARL11	0.0306626	6.916401	0.4374993	0.6720692	0.86958	-6.334073
C12orf4	-0.038536	8.7690693	-0.437354	0.6721709	0.86963	-6.334141
RNF11	0.0366059	7.8552616	0.4371894	0.6722856	0.86966	-6.334217
WDR62	0.061755	7.2265064	0.437142	0.6723187	0.86966	-6.334239
TAF1L	0.0315951	7.5930276	0.4369693	0.6724394	0.86966	-6.334319
PAPSS2	-0.027352	6.9198773	-0.436943	0.672458	0.86966	-6.334331
NOD1	-0.039798	7.0929971	-0.436772	0.6725774	0.86966	-6.33441
TGM6	-0.03419	7.0644762	-0.436723	0.6726115	0.86966	-6.334433
RAB6A	0.0281107	7.5614486	0.4367123	0.672619	0.86966	-6.334438
FRG2	-0.029311	6.836098	-0.436638	0.672671	0.86966	-6.334472
NOC2LP2	0.0361975	7.1318717	0.4365382	0.6727407	0.86968	-6.334518
JARID2	0.0346761	7.8254818	0.436118	0.6730344	0.86995	-6.334713
RREB1	-0.03064	6.9272548	-0.436067	0.6730703	0.86995	-6.334736
TBKBP1	-0.028514	6.8510366	-0.435773	0.6732756	0.87011	-6.334872
MPP3	-0.030978	6.8370576	-0.435714	0.6733165	0.87011	-6.334899
MAP2K1	0.0342735	10.198747	0.4355751	0.6734139	0.87016	-6.334964
DDX20	-0.078233	7.4300654	-0.435352	0.6735698	0.87023	-6.335067
TRAIP	-0.032668	7.2948283	-0.435277	0.6736225	0.87023	-6.335101
XPO5	0.0273174	9.4236851	0.4352003	0.673676	0.87023	-6.335137
PKNOX1	-0.031723	7.6126506	-0.435153	0.673709	0.87023	-6.335158
TACR1	-0.032593	6.940999	-0.434843	0.6739261	0.87044	-6.335302
ALPK1	0.0352036	7.5898331	0.4346181	0.6740831	0.87049	-6.335405
SCARNA27	0.0773615	7.1836715	0.4346159	0.6740847	0.87049	-6.335406
LOC441179	-0.032752	6.8969578	-0.43444	0.6742077	0.87051	-6.335487

RIN1	-0.031642	7.0088693	-0.434418	0.6742231	0.87051	-6.335497
SERPINF1	-0.033781	6.7743597	-0.434251	0.6743397	0.87056	-6.335574
GPSM2	-0.039005	8.2513948	-0.4342	0.674376	0.87056	-6.335598
SLC22A1	0.0442799	7.1213121	0.4339807	0.6745291	0.87068	-6.335699
SNHG4	-0.040623	8.7872481	-0.43367	0.6747466	0.87088	-6.335842
CRISP2	-0.036855	6.946296	-0.433581	0.6748088	0.87088	-6.335883
PKN3	0.0588521	7.0231664	0.4333857	0.6749454	0.87088	-6.335972
MRPS11	-0.036511	10.580011	-0.433344	0.6749749	0.87088	-6.335992
SLC38A8	0.0328935	6.9347842	0.4333328	0.6749825	0.87088	-6.335997
FKTN	-0.090128	12.398045	-0.43271	0.6754187	0.87127	-6.336283
CPB1	0.0297367	6.8448679	0.4325763	0.675512	0.87127	-6.336344
ARHGAP18	0.0329512	6.9395266	0.432526	0.6755473	0.87127	-6.336367
ERBB2	0.0385072	7.2373932	0.4324973	0.6755674	0.87127	-6.33638
KIAA1211	0.0373794	6.871793	0.4324733	0.6755842	0.87127	-6.336391
ST7	-0.026462	8.3832459	-0.432319	0.6756919	0.87129	-6.336462
MDM4	0.0412608	7.4636759	0.4321733	0.6757943	0.87129	-6.336529
B3GALT6	0.0631717	8.7928092	0.4321341	0.6758217	0.87129	-6.336547
FMO6P	-0.038437	7.2118641	-0.432114	0.6758358	0.87129	-6.336556
OPTN	0.0463945	7.4767192	0.431946	0.6759535	0.87136	-6.336633
NEK2	-0.048376	8.0971638	-0.431812	0.6760473	0.8714	-6.336694
KCND1	-0.029818	6.9026986	-0.431599	0.6761963	0.87152	-6.336792
TATDN2	0.027001	8.4590498	0.4313496	0.6763712	0.87167	-6.336906
F7	0.0351511	7.0105885	0.4309543	0.6766482	0.87195	-6.337087
NAA20	-0.047362	11.197177	-0.430607	0.6768917	0.87218	-6.337246
KIR2DS3	0.0441577	6.9393327	0.4304737	0.6769849	0.87218	-6.337306
FOXO1	-0.034593	8.1951594	-0.430437	0.677011	0.87218	-6.337323
AASS	-0.028571	6.8550611	-0.430222	0.6771611	0.87224	-6.337421
CENPL	0.0575299	8.7801697	0.430188	0.6771852	0.87224	-6.337437
MFN1	-0.045798	8.1146046	-0.430123	0.6772308	0.87224	-6.337467
IFNA21	-0.033198	6.8943475	-0.429873	0.677406	0.87239	-6.337581
SLC12A5	0.0389391	6.8965061	0.4297146	0.6775171	0.87245	-6.337653
APAF1	0.0356399	7.4547905	0.4295404	0.6776392	0.87247	-6.337732
CXADR	-0.033128	7.6792182	-0.429368	0.67776	0.87247	-6.337811
C2orf73	0.0298645	6.7906622	0.4292601	0.6778358	0.87247	-6.33786
TAOK3	0.0349052	8.0893777	0.4291723	0.6778973	0.87247	-6.3379
GNA11	0.0315772	7.3336002	0.4291517	0.6779118	0.87247	-6.337909
SEMA4F	0.0269182	7.2300364	0.4291083	0.6779422	0.87247	-6.337929
LPAR1	0.0295513	6.8282678	0.4290328	0.6779952	0.87247	-6.337963
GALC	0.0281507	6.8704188	0.429008	0.6780125	0.87247	-6.337975
CHD1	-0.05573	8.7862046	-0.428641	0.6782699	0.87264	-6.338142
MXD4	-0.038052	9.0722464	-0.428384	0.6784501	0.87264	-6.338258
PAOX	-0.036781	7.2254898	-0.428384	0.6784504	0.87264	-6.338259
OR2A4	-0.037079	6.9056005	-0.428188	0.678588	0.87264	-6.338348

GFRA2	-0.029541	7.0044394	-0.428172	0.678599	0.87264	-6.338355
BAG1	-0.030739	7.2990308	-0.42809	0.6786567	0.87264	-6.338392
ASXL1	0.0343367	8.9251444	0.428052	0.6786832	0.87264	-6.338409
SUSD6	-0.036615	8.2270729	-0.428017	0.6787079	0.87264	-6.338425
H2AFZ	0.0458012	13.575416	0.4279698	0.6787408	0.87264	-6.338447
HNRNPF	-0.039199	7.6202367	-0.427755	0.6788919	0.87264	-6.338544
PYROXD2	0.0262947	6.7359942	0.427691	0.6789365	0.87264	-6.338573
NSD3	-0.026609	6.9181307	-0.427686	0.6789398	0.87264	-6.338575
SIL1	0.0313804	8.0757173	0.4276848	0.6789408	0.87264	-6.338576
SEMA6C	-0.042466	6.9313716	-0.427626	0.6789821	0.87264	-6.338603
ZNF532	-0.034154	7.8778686	-0.427224	0.6792642	0.87291	-6.338785
ZC2HC1A	-0.035179	7.4294268	-0.427072	0.6793706	0.87291	-6.338854
SENP5	0.0362025	7.8101618	0.4270252	0.6794038	0.87291	-6.338875
TSPAN3	-0.042658	9.719265	-0.42674	0.6796039	0.87291	-6.339004
LINC00347	-0.032067	6.9120412	-0.426734	0.6796084	0.87291	-6.339007
VANGL1	-0.030577	6.7724921	-0.426665	0.6796564	0.87291	-6.339038
HOTTIP	0.0340693	7.0774044	0.4266082	0.6796966	0.87291	-6.339064
PAXIP1-AS2	-0.036472	6.8554889	-0.426597	0.6797045	0.87291	-6.339069
TMEM70	-0.042497	9.4381329	-0.426558	0.6797321	0.87291	-6.339087
PDE6G	0.0307736	6.9873306	0.4264485	0.6798087	0.87291	-6.339136
CHFR	-0.03857	7.0957631	-0.426383	0.6798544	0.87291	-6.339166
SMG1P2	0.0381272	7.7754584	0.4263073	0.6799079	0.87291	-6.3392
DYNLL2	-0.037343	9.4038824	-0.426026	0.6801053	0.87309	-6.339327
KCNJ2	0.0328024	6.825028	0.4256825	0.6803467	0.87332	-6.339483
GHRL	-0.031073	6.730237	-0.425311	0.6806077	0.87358	-6.339651
PLEKHA7	-0.031235	6.7929646	-0.424646	0.6810751	0.8741	-6.339951
CERS1	-0.033178	6.6751683	-0.424213	0.6813795	0.8743	-6.340146
USP46	0.0295116	7.2333458	0.4241552	0.6814199	0.8743	-6.340172
RSPH10B	0.0352135	6.9572009	0.4240806	0.6814723	0.8743	-6.340205
PAK3	-0.027317	6.7848164	-0.424066	0.6814828	0.8743	-6.340212
LRRN1	-0.027966	6.9306523	-0.423995	0.6815323	0.8743	-6.340244
SDR9C7	0.0343046	6.8107082	0.423836	0.6816442	0.87437	-6.340315
CUTA	0.0321243	9.8018322	0.4235386	0.6818533	0.87438	-6.340449
GJA3	0.032209	6.8111838	0.4235179	0.6818679	0.87438	-6.340458
FAF2	0.0471336	10.057071	0.4234575	0.6819104	0.87438	-6.340486
RBPJ	-0.035559	7.4535284	-0.423452	0.6819146	0.87438	-6.340488
RBM22	-0.039948	11.09475	-0.423398	0.6819522	0.87438	-6.340512
ARRB1	0.0288507	6.9317476	0.4232144	0.6820813	0.87438	-6.340595
LOC728073	-0.042165	6.9082206	-0.423199	0.6820922	0.87438	-6.340602
C11orf53	0.0269715	6.8638809	0.4228556	0.6823336	0.87438	-6.340756
MEFV	-0.036784	6.8694757	-0.422797	0.6823752	0.87438	-6.340782
SYNGR1	-0.026432	6.7786414	-0.422777	0.6823891	0.87438	-6.340791
TMEM147	0.0561678	11.468772	0.4224998	0.6825839	0.87438	-6.340916

NOS3	-0.035529	7.9946634	-0.422465	0.6826084	0.87438	-6.340931
VSTM2A	0.0290025	6.818801	0.4222911	0.6827308	0.87438	-6.341009
RBP7	-0.033665	6.9165168	-0.421979	0.6829506	0.87438	-6.341149
HNRNPA1P1	-0.026427	7.4522399	-0.421911	0.6829984	0.87438	-6.34118
ATP8B2	-0.035977	6.9628176	-0.421884	0.6830168	0.87438	-6.341191
SCMH1	-0.029368	7.872535	-0.421879	0.6830206	0.87438	-6.341194
AGTR1	-0.02715	6.7619572	-0.421626	0.6831988	0.87438	-6.341307
RUNDC3B	-0.027431	6.7909545	-0.421599	0.6832176	0.87438	-6.341319
HGSNAT	-0.027531	6.9468201	-0.421587	0.6832263	0.87438	-6.341325
GUCD1	-0.044067	10.463644	-0.421518	0.6832745	0.87438	-6.341355
LTBP2	0.0409006	7.0290817	0.4214959	0.6832903	0.87438	-6.341365
MPO	-0.033893	6.8493535	-0.421441	0.6833289	0.87438	-6.34139
LRRC56	0.0397181	7.77668	0.4213974	0.6833596	0.87438	-6.341409
HBEGF	-0.027307	6.8437078	-0.421369	0.6833798	0.87438	-6.341422
BRD1	0.0382123	7.4575612	0.4213682	0.6833802	0.87438	-6.341422
KCTD8	0.0347792	6.9172231	0.4212924	0.6834335	0.87438	-6.341456
TIMP3	0.0281208	6.7317723	0.4212326	0.6834756	0.87438	-6.341483
OR52B6	0.0319968	6.9037995	0.4211446	0.6835376	0.87438	-6.341522
C20orf197	-0.028821	6.7215309	-0.421097	0.6835711	0.87438	-6.341544
MCM6	0.0308338	11.908534	0.4210507	0.6836037	0.87438	-6.341564
IL17RC	0.0255104	6.9625964	0.4209889	0.6836472	0.87438	-6.341592
PGBD2	-0.038918	7.2829971	-0.420962	0.6836663	0.87438	-6.341604
WAPL	0.0451333	7.9475393	0.4209299	0.6836887	0.87438	-6.341618
ST6GALNAC	-0.035256	8.0891367	-0.420711	0.6838429	0.8745	-6.341716
TRUB1	-0.058778	7.5592526	-0.420581	0.6839344	0.8745	-6.341774
CNNM4	-0.047597	6.9855642	-0.420449	0.684027	0.8745	-6.341833
EGFR	0.0342222	6.912264	0.4204073	0.6840566	0.8745	-6.341852
FAM131B	-0.03555	6.945038	-0.420315	0.6841214	0.8745	-6.341893
OPRD1	-0.045591	7.0391814	-0.420177	0.684219	0.8745	-6.341955
DCAF4L2	0.0278305	6.7667499	0.4201146	0.6842627	0.8745	-6.341982
PTTG3P	-0.046652	10.695373	-0.42005	0.6843085	0.8745	-6.342012
KDM3A	-0.038909	7.9361431	-0.420026	0.6843252	0.8745	-6.342022
ZNF367	0.0318117	7.0515359	0.4199088	0.6844076	0.8745	-6.342074
ZNF837	0.0422588	7.5159056	0.4197705	0.6845051	0.8745	-6.342136
TRIM25	0.0352956	8.3441447	0.4197337	0.684531	0.8745	-6.342152
NEK10	-0.028464	6.8889856	-0.419689	0.6845627	0.8745	-6.342172
PEX5	0.0379212	12.202845	0.4195551	0.6846568	0.87455	-6.342232
KCMF1	-0.030004	7.0038009	-0.419423	0.68475	0.87457	-6.342291
HOTAIRM1	0.0327132	6.8962879	0.419343	0.6848062	0.87457	-6.342326
LINC00242	0.0272553	6.8181156	0.419277	0.6848527	0.87457	-6.342356
PPP6R3	0.0335428	9.0704094	0.4191558	0.6849381	0.8746	-6.34241
MMAB	-0.031393	7.3589317	-0.418967	0.6850709	0.87469	-6.342494
PPP2CA	0.0424135	11.076022	0.4188345	0.6851645	0.87474	-6.342553

SI	0.0288862	7.0020403	0.4187448	0.6852277	0.87474	-6.342593
PAICS	-0.034361	10.765556	-0.418616	0.6853183	0.87478	-6.34265
HMGXB4	0.0323469	7.6423912	0.4182807	0.6855547	0.87493	-6.342799
IKBKAP	0.0298164	7.2569583	0.4181715	0.6856317	0.87493	-6.342847
GNG11	0.0274534	6.8634753	0.4181329	0.6856589	0.87493	-6.342865
SNRNP40	0.0293774	10.398696	0.4180454	0.6857206	0.87493	-6.342903
FRMD8	-0.041853	9.8483379	-0.417975	0.6857702	0.87493	-6.342935
CD300A	0.0325621	6.7544935	0.4179336	0.6857994	0.87493	-6.342953
LIG3	-0.028144	7.7914299	-0.417779	0.6859087	0.875	-6.343022
IL6R	0.0262237	6.755988	0.41754	0.6860769	0.87502	-6.343128
FBXL19	-0.053666	6.9717449	-0.417526	0.6860868	0.87502	-6.343134
MIR1281	0.0317602	7.0361248	0.4175001	0.6861051	0.87502	-6.343145
TEAD2	0.0284156	6.9063811	0.4174143	0.6861655	0.87502	-6.343183
KCNMB3	-0.033863	6.9335633	-0.417171	0.6863369	0.87516	-6.343291
CCM2L	-0.027277	6.758415	-0.416762	0.6866256	0.87531	-6.343472
RPRD1A	0.0357655	10.175794	0.4167083	0.6866634	0.87531	-6.343496
FTH1P3	0.059708	9.1154389	0.4166369	0.6867138	0.87531	-6.343528
EID2B	0.034628	8.8864186	0.4165752	0.6867573	0.87531	-6.343555
ERCC3	-0.031368	8.678214	-0.41656	0.686768	0.87531	-6.343562
PCNX2	-0.027595	7.1842042	-0.416496	0.6868131	0.87531	-6.34359
HPS5	0.027237	8.5503683	0.415989	0.6871709	0.87557	-6.343814
ANKRD12	-0.046061	7.8866183	-0.415792	0.6873101	0.87557	-6.343902
TGIF1	0.0265398	7.1184632	0.4157505	0.6873391	0.87557	-6.34392
ZNF346	0.0423973	7.3747979	0.415744	0.6873437	0.87557	-6.343923
CFAP221	0.0257656	6.8412667	0.415721	0.68736	0.87557	-6.343933
TAF9B	-0.040359	7.8982038	-0.415558	0.687475	0.87557	-6.344005
GTPBP2	-0.036548	6.8906742	-0.415527	0.6874971	0.87557	-6.344019
MDH1	0.0393316	12.369504	0.4155236	0.6874992	0.87557	-6.34402
SIGIRR	-0.03106	6.9524262	-0.415308	0.6876511	0.87569	-6.344115
NIPA1	-0.057061	8.3542378	-0.414817	0.6879979	0.87593	-6.344332
UBQLN3	-0.025447	6.9000015	-0.41477	0.6880313	0.87593	-6.344352
MEOX1	0.0314398	6.8587938	0.4147225	0.6880647	0.87593	-6.344373
DLG5-AS1	-0.031618	6.7346245	-0.414448	0.6882585	0.87593	-6.344494
TOB2	0.037286	7.6116461	0.4144188	0.6882791	0.87593	-6.344507
FBXL16	0.0296247	6.7969282	0.4143477	0.6883293	0.87593	-6.344538
SLC13A3	0.0337862	7.0477502	0.4141791	0.6884484	0.87593	-6.344612
GSG1	-0.03138	6.8723703	-0.414165	0.6884585	0.87593	-6.344619
BICD1	-0.032913	6.9883572	-0.414029	0.6885541	0.87593	-6.344678
TCF23	-0.033315	6.9616088	-0.414028	0.6885552	0.87593	-6.344679
KCNA1	-0.04158	6.8819291	-0.413869	0.6886675	0.87593	-6.344749
BORCS6	0.0340494	7.1650121	0.413837	0.6886899	0.87593	-6.344763
ZNF641	0.0476219	7.1590364	0.4138341	0.688692	0.87593	-6.344764
XRRA1	0.0260689	6.9734774	0.4137689	0.688738	0.87593	-6.344793

PTPN3	-0.049395	7.0487335	-0.413764	0.6887416	0.87593	-6.344795
ZNF658B	-0.031587	7.0364198	-0.413463	0.6889538	0.8761	-6.344927
AMACR	-0.0275	7.1801734	-0.413408	0.688993	0.8761	-6.344951
AKR7A2	0.0575986	11.173191	0.4128417	0.689393	0.87639	-6.3452
PEX7	-0.0372	8.3046882	-0.412718	0.6894802	0.87639	-6.345254
SLC25A13	0.0412368	9.0349766	0.4125843	0.6895749	0.87639	-6.345313
EEF2KMT	0.0266042	8.13784	0.4125659	0.6895879	0.87639	-6.345321
PCDHGA10	-0.040208	6.9610853	-0.412548	0.6896008	0.87639	-6.345329
HBP1	-0.029766	7.4131096	-0.41252	0.6896206	0.87639	-6.345341
RNASE3	-0.03323	6.6909288	-0.412484	0.6896457	0.87639	-6.345357
LRFN1	0.0268433	6.7877905	0.4121217	0.6899018	0.87664	-6.345516
SLC28A1	0.0281957	6.9892646	0.4119443	0.6900272	0.87669	-6.345593
ALDH3A1	0.0281592	6.8164889	0.411902	0.6900571	0.87669	-6.345612
PWWP2A	-0.029975	7.7084293	-0.411625	0.690253	0.87671	-6.345733
LOC646836	0.0264604	7.9748323	0.4115009	0.6903407	0.87671	-6.345787
C10orf120	0.0274863	6.8884381	0.4114056	0.6904081	0.87671	-6.345829
ASIC1	-0.031199	6.779796	-0.411386	0.690422	0.87671	-6.345838
MRPS30	-0.049425	11.200328	-0.411383	0.6904244	0.87671	-6.345839
KRTAP3-2	0.0351214	6.8486208	0.4113667	0.6904356	0.87671	-6.345846
D2HGDH	-0.051246	9.4747753	-0.411207	0.6905482	0.87672	-6.345916
VPS54	0.036394	7.3112719	0.4111841	0.6905647	0.87672	-6.345926
NAP1L4	-0.035007	11.198162	-0.411011	0.6906871	0.8768	-6.346002
SNORD94	-0.031998	6.9434861	-0.410523	0.6910325	0.87716	-6.346215
C5orf66-AS2	0.0426993	7.1537193	0.4104335	0.6910954	0.87717	-6.346254
PRSS22	-0.035078	6.8668996	-0.410271	0.6912106	0.87717	-6.346325
DACH1	-0.034697	6.9810844	-0.410264	0.6912157	0.87717	-6.346328
TERC	-0.038079	7.1232171	-0.40979	0.6915504	0.87743	-6.346534
SPTBN4	0.0266546	7.0100935	0.4097805	0.6915574	0.87743	-6.346538
FAM185A	-0.026592	6.9425225	-0.409714	0.6916047	0.87743	-6.346567
HIST1H4I	-0.044465	7.0239702	-0.409344	0.6918664	0.87769	-6.346728
RPN2	-0.040032	9.1286395	-0.408829	0.6922306	0.878	-6.346952
PLOD2	-0.026312	6.8360409	-0.408735	0.6922976	0.878	-6.346993
TBX15	-0.039817	6.8173679	-0.408674	0.6923402	0.878	-6.347019
PCDH17	-0.027148	6.7940566	-0.408612	0.6923844	0.878	-6.347046
WBP1L	-0.025608	7.7538268	-0.408572	0.6924124	0.878	-6.347064
EPHA10	-0.030127	7.2693267	-0.408436	0.6925093	0.87803	-6.347123
SNORA48	-0.045248	7.0387618	-0.408364	0.6925603	0.87803	-6.347154
RET	0.0289519	6.8825787	0.4081339	0.6927228	0.87814	-6.347254
TGM5	-0.024778	6.8064992	-0.40807	0.692768	0.87814	-6.347282
FOXD1	0.0257305	6.7778981	0.4078599	0.6929169	0.87815	-6.347373
MTMR3	0.0287285	7.5107325	0.407829	0.6929388	0.87815	-6.347386
MED29	-0.033069	8.6203782	-0.407803	0.6929569	0.87815	-6.347397
NCDN	0.0295851	7.4561023	0.4073613	0.69327	0.87847	-6.347589

MFSD14B	0.0385034	8.2535563	0.4072772	0.6933296	0.87847	-6.347625
CPNE1	0.0304413	8.1680545	0.4069516	0.6935602	0.87859	-6.347766
PPFIA3	0.0393079	6.9970395	0.4069124	0.693588	0.87859	-6.347783
CHRNA4	-0.035034	6.9278573	-0.406899	0.6935977	0.87859	-6.347789
SLC37A4	-0.043281	10.409508	-0.406803	0.6936653	0.87859	-6.34783
FAM72A	-0.032602	7.7265206	-0.406523	0.6938636	0.87877	-6.347951
SYT15	-0.025672	7.3162083	-0.4063	0.6940219	0.87889	-6.348048
DHRS3	0.025294	6.9140029	0.4058478	0.6943424	0.87922	-6.348243
DTNB	0.0370373	6.9118079	0.4057092	0.6944406	0.87925	-6.348303
DLEC1	0.0392493	6.8968837	0.4053795	0.6946743	0.87925	-6.348445
PTP4A3	-0.027534	6.8946669	-0.405315	0.6947202	0.87925	-6.348473
CFHR2	-0.039669	7.1772353	-0.405259	0.6947597	0.87925	-6.348497
P3H2	-0.038728	6.8993198	-0.405248	0.6947676	0.87925	-6.348502
SORCS1	-0.02844	6.9143587	-0.405209	0.6947954	0.87925	-6.348519
RETSAT	0.0409297	7.8398231	0.4051486	0.694838	0.87925	-6.348545
CHRNA10	-0.026752	7.0716607	-0.405138	0.6948452	0.87925	-6.348549
NPDC1	-0.029477	6.8187639	-0.405054	0.6949052	0.87925	-6.348586
XRN1	0.0382878	7.5053626	0.4048903	0.6950212	0.8793	-6.348656
WDR24	0.0295824	7.3331652	0.4047943	0.6950892	0.8793	-6.348697
KIAA2022	0.0337245	6.7560347	0.404722	0.6951405	0.8793	-6.348728
CEP55	0.0332803	9.5252467	0.4046604	0.6951842	0.8793	-6.348755
PSMB6	0.0530368	12.55434	0.4043545	0.6954011	0.87941	-6.348886
CXCL1	0.0310798	6.9456297	0.4042207	0.695496	0.87941	-6.348944
ITGA7	0.0473355	7.009624	0.4040794	0.6955963	0.87941	-6.349005
RAB37	-0.027	6.8301585	-0.404022	0.6956373	0.87941	-6.34903
ERLIN2	-0.026385	7.3758674	-0.403951	0.6956873	0.87941	-6.34906
SLAIN1	0.02965	9.0285485	0.4039114	0.6957154	0.87941	-6.349077
GALNT16	0.02816	6.8425336	0.4038769	0.6957399	0.87941	-6.349092
SPATA6	-0.026128	6.703213	-0.403783	0.6958063	0.87941	-6.349132
FBXO32	-0.02664	6.9319077	-0.403773	0.6958133	0.87941	-6.349136
FAM98C	0.0317038	7.4348707	0.4033197	0.6961352	0.87967	-6.349331
RPP25	-0.029872	6.7113391	-0.403312	0.6961409	0.87967	-6.349334
KLHL13	-0.028898	6.828643	-0.40292	0.6964188	0.87994	-6.349502
ACOT9	-0.033816	8.7547478	-0.402813	0.6964951	0.87996	-6.349548
NEFL	0.0275772	6.9565901	0.4024448	0.6967562	0.88019	-6.349706
TMTC2	0.028287	7.0412167	0.4023802	0.696802	0.88019	-6.349733
PDCL3	-0.032083	9.7100087	-0.402303	0.6968567	0.88019	-6.349766
CPXM1	-0.032856	7.0125714	-0.402072	0.6970206	0.88032	-6.349865
DOK2	0.0266531	6.8032214	0.4018512	0.6971776	0.88045	-6.34996
KHDC3L	0.0273349	6.9947605	0.4016494	0.6973208	0.88047	-6.350046
LINC02315	0.0321117	6.8469743	0.4014961	0.6974297	0.88047	-6.350111
DOCK9-AS2	-0.027765	6.7879538	-0.401335	0.6975442	0.88047	-6.35018
PNMA6A	-0.027601	6.7555552	-0.401297	0.6975707	0.88047	-6.350196

C10orf11	-0.029258	6.7601438	-0.401227	0.6976206	0.88047	-6.350226
PSMC3IP	-0.027947	7.3940609	-0.401119	0.6976974	0.88047	-6.350272
CEP152	-0.031279	7.8432715	-0.401113	0.697702	0.88047	-6.350275
ANKS1A	0.0369243	8.7904214	0.4010953	0.6977143	0.88047	-6.350283
MRPL51	0.029438	11.982837	0.4010587	0.6977403	0.88047	-6.350298
CD209	-0.026306	6.7637307	-0.400866	0.6978772	0.88051	-6.35038
BPIFA1	0.0340518	6.8019835	0.4008492	0.6978891	0.88051	-6.350387
YIPF3	-0.052429	8.6383926	-0.400573	0.6980853	0.88068	-6.350505
RNF144A	0.0281293	6.8449332	0.4004771	0.6981535	0.88069	-6.350546
RPS6KA5	0.0368378	7.8332085	0.4002579	0.6983092	0.8808	-6.350639
MORF4L2-A	0.0480642	7.0784172	0.4001868	0.6983597	0.8808	-6.35067
TEX26	-0.034753	6.9169622	-0.400058	0.6984511	0.88081	-6.350724
TESMIN	-0.0257	6.804919	-0.400003	0.6984904	0.88081	-6.350748
PARP14	-0.0252	6.8534074	-0.399907	0.6985583	0.88082	-6.350789
BRSK2	-0.028497	6.9652794	-0.399802	0.6986334	0.88084	-6.350834
SNORD113-	-0.034172	6.8838041	-0.39965	0.6987411	0.8809	-6.350898
FOXE1	-0.025075	6.8409485	-0.399522	0.6988322	0.88093	-6.350953
PPM1F	0.041631	9.6212421	0.3993487	0.6989554	0.88095	-6.351026
NCOR1	0.042071	7.5313053	0.3992944	0.698994	0.88095	-6.351049
PON2	-0.026551	6.8082516	-0.399093	0.6991367	0.88095	-6.351135
CCR5	0.026085	6.9249778	0.39895	0.6992388	0.88095	-6.351195
SLC6A20	-0.028365	6.9326809	-0.398882	0.6992872	0.88095	-6.351224
EZH2	0.0370573	8.803191	0.3988662	0.6992983	0.88095	-6.351231
RALA	0.040727	10.912597	0.3987563	0.6993765	0.88095	-6.351278
GUCY2D	0.0281203	6.7973792	0.3987372	0.69939	0.88095	-6.351286
TRPC5	-0.028926	6.8948224	-0.398697	0.6994188	0.88095	-6.351303
CRCP	0.0355308	8.0297978	0.3986543	0.699449	0.88095	-6.351321
RHOXF2B	-0.025118	6.9357534	-0.398453	0.6995924	0.88106	-6.351406
SYCP2	0.0273364	6.7953628	0.3982457	0.6997395	0.88112	-6.351494
RBCK1	0.036405	8.5286949	0.3982159	0.6997607	0.88112	-6.351507
SYT3	0.0279158	7.0609862	0.3980368	0.6998881	0.8812	-6.351583
LEF1	-0.029242	6.8018835	-0.397951	0.6999495	0.8812	-6.351619
GSTM2	0.0281778	7.0927609	0.397636	0.7001732	0.88135	-6.351752
EPN1	0.0518735	11.89519	0.397612	0.7001902	0.88135	-6.351762
CSF2RA	-0.028485	8.0410937	-0.397468	0.7002926	0.8814	-6.351823
KIF9	-0.026974	6.8625534	-0.39727	0.7004338	0.88143	-6.351907
CCDC9	0.0384801	6.8542781	0.3972682	0.7004348	0.88143	-6.351908
ARSB	-0.027053	7.5197144	-0.396712	0.7008307	0.8818	-6.352143
ZNF695	0.0251555	7.0150692	0.3966833	0.700851	0.8818	-6.352155
MDM2	0.0389433	7.4285616	0.3965228	0.7009652	0.88182	-6.352223
EN2	-0.033648	6.9027051	-0.396492	0.7009873	0.88182	-6.352236
PLEKHJ1	0.0496531	7.6337955	0.3961891	0.7012027	0.88202	-6.352363
CEP162	-0.035559	7.1759249	-0.396044	0.7013062	0.88207	-6.352425

KRT6B	-0.028392	6.9269899	-0.395676	0.7015682	0.88218	-6.35258
ZNF474	-0.031244	6.8433752	-0.395644	0.7015906	0.88218	-6.352593
UPF3B	0.0398069	9.1548293	0.3956252	0.7016042	0.88218	-6.352601
STAMBPL1	0.0276138	10.213667	0.3955853	0.7016325	0.88218	-6.352618
ZDHHC3	0.0291809	7.9942541	0.3953707	0.7017854	0.88221	-6.352708
HEATR3	-0.029614	8.4538123	-0.395305	0.7018321	0.88221	-6.352736
NUGGC	0.030736	7.0257765	0.3952877	0.7018444	0.88221	-6.352743
ATXN10	-0.031497	7.911507	-0.395137	0.7019515	0.88221	-6.352806
PHLDA2	-0.029098	6.8053592	-0.395129	0.7019576	0.88221	-6.35281
POLL	0.0332995	7.0078971	0.3948608	0.7021484	0.88223	-6.352923
TMBIM1	0.0358093	8.7578762	0.3946478	0.7023002	0.88223	-6.353012
TSPAN13	-0.035346	6.873776	-0.394559	0.7023635	0.88223	-6.353049
ZNF700	-0.031279	7.9073137	-0.394456	0.7024366	0.88223	-6.353093
MEG8	0.0405639	7.2031727	0.3943914	0.7024827	0.88223	-6.35312
SIPA1	-0.029372	8.3767465	-0.394374	0.7024948	0.88223	-6.353127
SYS1	-0.036768	8.3286249	-0.394233	0.7025955	0.88223	-6.353186
STBD1	-0.02892	6.887683	-0.394185	0.7026297	0.88223	-6.353206
RTL3	0.0262057	6.7769195	0.3941677	0.7026421	0.88223	-6.353214
MED18	0.0250628	6.9372084	0.3941522	0.7026532	0.88223	-6.35322
LOC653786	-0.025364	6.9001429	-0.39411	0.702683	0.88223	-6.353238
SUSD5	-0.03781	7.1322487	-0.393999	0.7027625	0.88223	-6.353285
HOXA11	-0.027337	6.7202461	-0.393997	0.7027637	0.88223	-6.353285
GDF11	-0.026516	7.6042224	-0.393911	0.702825	0.88223	-6.353321
NECAB2	0.0264905	6.7692327	0.3935707	0.7030674	0.8824	-6.353464
LDB2	0.0258617	6.9347224	0.3935009	0.7031172	0.8824	-6.353493
ATP6V0A2	0.0391649	9.3005528	0.393383	0.7032013	0.8824	-6.353543
PATE1	0.0300353	6.8790815	0.3933824	0.7032017	0.8824	-6.353543
IFT22	0.0257387	6.881808	0.393271	0.7032811	0.88243	-6.353589
FRA10AC1	-0.027705	7.0990789	-0.392966	0.7034986	0.88262	-6.353717
DEPDC7	-0.02462	6.7734336	-0.392877	0.703562	0.88263	-6.353754
STRADA	0.0267395	8.7850014	0.3925077	0.7038251	0.88288	-6.353909
MIGA2	0.03448	7.6673056	0.3923863	0.7039116	0.8829	-6.353959
IFI27	-0.03029	6.8185434	-0.392286	0.703983	0.8829	-6.354001
SCARNA12	0.0441425	7.3858259	0.3921438	0.7040845	0.8829	-6.354061
MNDA	-0.029676	6.8372091	-0.391986	0.7041969	0.8829	-6.354126
KIF7	-0.032998	6.8028874	-0.391752	0.7043639	0.8829	-6.354224
MCPH1	-0.03928	7.4480082	-0.391673	0.7044205	0.8829	-6.354257
LXN	0.0314329	6.9472871	0.3915651	0.7044973	0.8829	-6.354302
MIR448	-0.029776	6.8997115	-0.391166	0.7047821	0.8829	-6.354469
CSNK1G1	0.0346307	7.6866476	0.3911017	0.7048278	0.8829	-6.354495
ACOX2	-0.031241	6.7611389	-0.39107	0.7048504	0.8829	-6.354508
RNASE13	0.0373757	6.9577538	0.391063	0.7048553	0.8829	-6.354511
ONECUT2	0.0299408	6.8701223	0.390959	0.7049296	0.8829	-6.354555

MRPS12	0.0251351	9.471112	0.3909035	0.7049691	0.8829	-6.354578
ZRANB1	-0.026659	7.6127167	-0.390868	0.7049942	0.8829	-6.354592
ZNF443	-0.037091	7.2911974	-0.390865	0.7049969	0.8829	-6.354594
HOXA2	0.0272605	6.9152657	0.3905997	0.7051859	0.8829	-6.354704
PRKAB1	-0.02977	8.6783369	-0.390594	0.7051897	0.8829	-6.354706
CROT	-0.036939	7.3297308	-0.390553	0.7052189	0.8829	-6.354723
TFPI	-0.029244	6.8420703	-0.390511	0.7052493	0.8829	-6.354741
NF2	-0.029869	7.1126158	-0.390288	0.7054083	0.8829	-6.354834
ZNF137P	-0.033423	7.2930808	-0.390287	0.7054087	0.8829	-6.354834
SIDT1	0.0315243	7.2475516	0.3902077	0.7054656	0.8829	-6.354867
SURF2	0.0373012	7.6078031	0.3901725	0.7054907	0.8829	-6.354882
SATB2	-0.030664	6.9170921	-0.390154	0.7055038	0.8829	-6.354889
ZEB1-AS1	0.0255888	7.5641692	0.3901316	0.7055199	0.8829	-6.354899
NLN	0.0314652	7.7596656	0.3900231	0.7055973	0.8829	-6.354944
ABTB1	-0.029223	6.9657722	-0.389989	0.7056217	0.8829	-6.354958
TCEAL5	-0.033216	6.8694553	-0.389854	0.7057177	0.8829	-6.355014
PSIP1	-0.046184	8.1163778	-0.3897	0.7058279	0.8829	-6.355078
CTSB	-0.038635	7.6088659	-0.389699	0.7058285	0.8829	-6.355078
AOC3	0.0384777	6.9529266	0.389693	0.705833	0.8829	-6.355081
GLT1D1	0.0330095	6.9368572	0.3896864	0.7058377	0.8829	-6.355084
MIR21	0.0405516	6.9565069	0.3896698	0.7058495	0.8829	-6.35509
SLC24A1	0.0305475	6.8525047	0.3895556	0.705931	0.8829	-6.355138
MYL2	-0.032239	7.2768509	-0.389465	0.7059957	0.8829	-6.355175
EMX2	-0.027759	7.0052588	-0.389434	0.7060179	0.8829	-6.355188
MIA	-0.030515	7.0408181	-0.38904	0.706299	0.88318	-6.355351
LRRC6	-0.027046	6.7204648	-0.388332	0.7068044	0.88373	-6.355644
HLA-F-AS1	-0.030097	6.9094752	-0.388058	0.7070003	0.88388	-6.355758
AXL	-0.031762	6.851696	-0.387997	0.7070438	0.88388	-6.355783
ESYT3	0.0255339	6.8102227	0.3877545	0.7072171	0.88402	-6.355883
PLCB1	0.0293079	6.8327709	0.3875767	0.7073441	0.8841	-6.355957
CUL9	-0.029202	7.3461603	-0.387481	0.7074127	0.88411	-6.355996
ZFP14	0.0381427	6.967983	0.3874055	0.7074665	0.88411	-6.356027
ZNF687	0.0312203	6.9319016	0.3871655	0.7076379	0.88423	-6.356126
FBXO6	-0.02448	6.8107732	-0.387052	0.7077193	0.88423	-6.356173
PRRT2	-0.025358	7.183092	-0.387006	0.7077522	0.88423	-6.356192
CTSF	0.0278501	7.0545969	0.3869271	0.7078083	0.88423	-6.356225
RNF213	-0.027478	7.4477798	-0.386824	0.7078821	0.88425	-6.356267
PRSS45	0.0310302	7.0876198	0.3867239	0.7079535	0.88425	-6.356308
FBP2	-0.028615	6.8349889	-0.386563	0.7080681	0.88425	-6.356374
PLEKHH3	-0.036843	7.4730657	-0.386548	0.7080795	0.88425	-6.356381
ANKRD16	-0.024238	7.6451204	-0.386454	0.708146	0.88425	-6.356419
CEP63	0.0290075	7.4838611	0.3863802	0.7081991	0.88425	-6.35645
RAB43	-0.025432	6.8534432	-0.38626	0.7082847	0.88425	-6.356499

BFAR	0.0547109	8.7357626	0.386184	0.7083394	0.88425	-6.35653
NSMAF	-0.048889	10.418844	-0.386002	0.7084697	0.88425	-6.356605
LINC00563	0.0325663	6.8581734	0.385998	0.7084723	0.88425	-6.356607
NBPF7	0.0314003	6.8561982	0.3859738	0.7084896	0.88425	-6.356617
JAM2	-0.033169	7.0244565	-0.385885	0.7085529	0.88425	-6.356653
STX17	0.026152	7.2865114	0.3856478	0.7087227	0.88439	-6.356751
RNF220	-0.040521	9.3161406	-0.385288	0.7089802	0.88457	-6.356899
ROMO1	0.0314802	12.547984	0.385273	0.7089907	0.88457	-6.356905
OLA1	-0.029398	7.0663809	-0.385029	0.7091652	0.88471	-6.357005
DGKH	0.0308319	6.9379596	0.3846461	0.7094391	0.88489	-6.357162
NR1D1	0.0362163	6.9098505	0.3845546	0.7095045	0.88489	-6.357199
LINC00323	-0.076049	7.1259833	-0.384534	0.709519	0.88489	-6.357208
ABHD5	0.0480748	7.4892434	0.3844944	0.7095476	0.88489	-6.357224
KLHL35	-0.039969	7.015589	-0.384132	0.7098066	0.88514	-6.357372
TFAP2C	-0.024681	6.7427205	-0.383768	0.7100672	0.88532	-6.357521
AFTPH	-0.026106	8.096451	-0.383629	0.7101668	0.88532	-6.357578
LOC729810	0.0316389	7.1282912	0.3836239	0.7101704	0.88532	-6.35758
ATL1	-0.024889	6.8712237	-0.383588	0.710196	0.88532	-6.357595
EFL1	0.0235614	7.8517948	0.3832309	0.7104516	0.88551	-6.357741
CHRNB4	0.031442	7.1820345	0.3832013	0.7104728	0.88551	-6.357753
ZNF655	0.0278259	7.2983926	0.3830771	0.7105617	0.88555	-6.357804
ALOX12B	0.0325575	7.3227883	0.3828515	0.7107232	0.88567	-6.357896
KIF17	-0.026418	6.7021296	-0.382753	0.7107935	0.88569	-6.357936
GLRX5	0.0339146	13.09464	0.3822432	0.7111587	0.88606	-6.358143
TSPAN6	-0.024849	6.8495643	-0.381881	0.7114183	0.88629	-6.358291
PNRC2	-0.044348	9.1476626	-0.38182	0.7114618	0.88629	-6.358316
MIR1277	-0.031251	6.9660375	-0.381542	0.7116611	0.88646	-6.358429
FAM81B	-0.023611	6.9028593	-0.381239	0.7118776	0.88666	-6.358552
HLTF	-0.056968	9.2983985	-0.380989	0.7120567	0.88673	-6.358653
IPO5	0.0314686	9.3874898	0.380951	0.7120841	0.88673	-6.358669
HNRNPH2	-0.051674	7.795796	-0.380907	0.7121153	0.88673	-6.358687
TRIM7	-0.027729	6.8480484	-0.380694	0.7122685	0.88684	-6.358773
C9orf172	0.0245713	6.7393226	0.3805382	0.7123799	0.8869	-6.358836
HDGFRP3	-0.028882	6.7704866	-0.380276	0.7125676	0.88693	-6.358943
ORMDL3	-0.031877	7.5448212	-0.380276	0.712568	0.88693	-6.358943
XK	0.0282798	6.6694215	0.3802464	0.712589	0.88693	-6.358955
ZNF624	0.0260647	6.9486949	0.3799823	0.7127783	0.88693	-6.359062
DPH2	0.029	8.650557	0.3797132	0.7129711	0.88693	-6.359171
INTS6-AS1	-0.035395	7.0460443	-0.379447	0.7131621	0.88693	-6.359278
CUL7	0.0372061	7.0586876	0.3794076	0.7131902	0.88693	-6.359294
ANKHD1-EIF	0.031277	7.265297	0.3793415	0.7132376	0.88693	-6.359321
OAF	-0.030001	6.8037918	-0.379322	0.7132515	0.88693	-6.359329
PFN1P2	0.0270595	6.942759	0.37905	0.7134465	0.88693	-6.359439

GABRG2	-0.0247	6.7609816	-0.378986	0.7134925	0.88693	-6.359465
ALDH1A2	-0.031098	6.937598	-0.378827	0.7136067	0.88693	-6.359529
LINC00092	0.0332182	7.596773	0.3788136	0.7136161	0.88693	-6.359534
C11orf58	-0.035058	8.2359988	-0.378787	0.7136349	0.88693	-6.359545
RBBP9	0.0332297	7.8278027	0.3782761	0.7140015	0.88693	-6.359751
TRAF4	0.0332773	7.8059618	0.37824	0.7140274	0.88693	-6.359766
CTDSPL2	-0.024835	7.7270153	-0.378211	0.714048	0.88693	-6.359777
OR52N2	-0.032601	7.0420893	-0.378125	0.7141097	0.88693	-6.359812
ACVR2A	-0.02927	6.8458884	-0.377881	0.7142846	0.88693	-6.35991
ACSS1	-0.02807	7.6952543	-0.377846	0.7143101	0.88693	-6.359925
FILIP1L	0.0237042	6.8231508	0.3778106	0.7143354	0.88693	-6.359939
COBLL1	0.0614875	10.612554	0.3777881	0.7143516	0.88693	-6.359948
COG5	0.0381616	7.8648369	0.3777372	0.714388	0.88693	-6.359968
POU2AF1	0.0591751	10.476742	0.377729	0.7143939	0.88693	-6.359972
IBTK	-0.084215	8.8043857	-0.377661	0.7144427	0.88693	-6.359999
MIR181A2H	-0.066873	7.2788422	-0.377561	0.7145145	0.88693	-6.360039
XXYLT1	-0.041205	8.9963621	-0.377552	0.7145211	0.88693	-6.360043
HIC2	0.0279241	8.4232653	0.3774726	0.7145778	0.88693	-6.360075
SYVN1	0.0268576	9.1821607	0.3774712	0.7145788	0.88693	-6.360075
FASN	0.0478655	12.801502	0.377406	0.7146256	0.88693	-6.360102
CALB2	-0.030541	7.7522865	-0.377356	0.7146614	0.88693	-6.360122
IGSF11	0.0276345	7.0378617	0.3772712	0.7147223	0.88693	-6.360156
FOXD4L4	0.0308372	7.0538237	0.3771566	0.7148046	0.88693	-6.360202
EMD	0.0292732	11.221366	0.3771119	0.7148367	0.88693	-6.36022
TEAD1	-0.024863	7.0511919	-0.37701	0.7149095	0.88693	-6.360261
TNFAIP1	0.0444336	8.2859744	0.3769509	0.7149522	0.88693	-6.360285
KISS1R	0.0270059	6.8449371	0.3768958	0.7149918	0.88693	-6.360307
EPHX3	-0.025414	6.8491262	-0.376893	0.7149939	0.88693	-6.360308
SSBP4	-0.027805	7.4480522	-0.376834	0.7150362	0.88693	-6.360332
C20orf196	0.0398696	8.0092914	0.3768219	0.7150447	0.88693	-6.360336
IARS	-0.030254	9.2027106	-0.376794	0.7150651	0.88693	-6.360348
SMAD4	-0.033718	9.5386255	-0.376772	0.7150806	0.88693	-6.360356
SYN2	-0.023396	6.8927519	-0.376609	0.7151977	0.88693	-6.360422
REEP3	0.0299501	6.8287592	0.3766061	0.7151996	0.88693	-6.360423
ERMARD	0.0316152	7.9205373	0.3765996	0.7152043	0.88693	-6.360426
FCN1	-0.036738	6.8679074	-0.376516	0.7152642	0.88693	-6.360459
ATP11C	0.0351327	7.9791109	0.3765038	0.7152731	0.88693	-6.360464
KLHL18	0.0243722	8.3502717	0.3764451	0.7153152	0.88693	-6.360488
PTGDS	0.0273505	6.8503877	0.375788	0.7157869	0.88744	-6.360751
PSMD9	0.0344616	8.0541853	0.37522	0.7161947	0.88782	-6.360979
PLCG2	0.0420206	11.912071	0.3751262	0.716262	0.88782	-6.361016
HMP19	0.0374421	7.1945065	0.3750925	0.7162862	0.88782	-6.36103
FAM153A	-0.024058	7.2002704	-0.375014	0.7163428	0.88782	-6.361061

ATP6AP1L	0.0319171	7.1171879	0.3749022	0.7164229	0.88785	-6.361106
STS	0.0388509	7.1502762	0.3745928	0.7166451	0.88792	-6.361229
MEIS1	0.0470022	7.1885008	0.3745046	0.7167085	0.88792	-6.361264
BBOF1	0.0389182	7.3510258	0.3744762	0.7167289	0.88792	-6.361276
SIRPA	-0.024468	6.7137656	-0.374445	0.7167515	0.88792	-6.361288
NMU	-0.033694	9.4988942	-0.374395	0.7167874	0.88792	-6.361308
UGT1A3	0.0269915	7.3055334	0.3742674	0.7168789	0.88796	-6.361359
CEPT1	0.0271497	9.1272971	0.3738999	0.7171429	0.88812	-6.361506
SKP2	0.0259032	8.9816359	0.3738595	0.717172	0.88812	-6.361522
TMEM35A	0.0257711	6.9252431	0.3737515	0.7172495	0.88812	-6.361565
DENND1A	-0.032729	8.4726315	-0.373745	0.7172544	0.88812	-6.361568
SDK1	0.0243673	6.85278	0.3736579	0.7173168	0.88813	-6.361602
LINC00969	0.0277453	6.9632967	0.3734893	0.7174379	0.8882	-6.361669
C11orf65	0.0338636	6.9809308	0.373334	0.7175495	0.88824	-6.361731
HOOK1	0.0272931	6.8455805	0.3732807	0.7175878	0.88824	-6.361752
AXIN2	-0.032094	6.9095268	-0.372803	0.7179315	0.88859	-6.361943
MIA3	0.0273967	6.8324066	0.3726076	0.7180717	0.8886	-6.36202
PLA1A	-0.028944	7.2172957	-0.37257	0.7180984	0.8886	-6.362035
PPIH	-0.0269	10.49252	-0.372532	0.7181263	0.8886	-6.36205
PEX10	-0.024931	7.4344623	-0.372362	0.7182485	0.88863	-6.362118
SELENBP1	-0.029057	6.9198778	-0.372329	0.718272	0.88863	-6.362131
SDK2	-0.027419	6.8749737	-0.372204	0.7183621	0.88865	-6.362181
MPHOSPH6	-0.024882	7.9596002	-0.37207	0.718458	0.88865	-6.362233
RABGEF1	-0.032597	7.5645656	-0.372052	0.7184714	0.88865	-6.362241
ZBTB2	-0.036784	7.3928916	-0.371894	0.7185845	0.88866	-6.362303
TMEM186	0.0374713	7.5714849	0.3718677	0.7186036	0.88866	-6.362314
SLC6A6	0.0433756	7.1719225	0.3717784	0.7186678	0.88867	-6.362349
BTF3P11	0.0356368	7.0520815	0.3712537	0.7190452	0.88906	-6.362557
ZFHX2	0.0250198	6.7136533	0.370999	0.7192284	0.88921	-6.362658
COPS6	0.0228419	9.5124619	0.3708285	0.719351	0.88929	-6.362725
ITGAX	0.0274685	6.7233882	0.3704615	0.719615	0.88954	-6.36287
ATAT1	0.02807	7.0130553	0.370243	0.7197723	0.88966	-6.362957
PTAR1	-0.042473	8.3403637	-0.370151	0.7198383	0.88966	-6.362993
NKX2-3	0.0240953	6.7467462	0.3700763	0.7198922	0.88966	-6.363023
NPHP4	-0.032732	7.4061561	-0.369966	0.7199718	0.88968	-6.363066
NEURL1B	-0.036726	7.5786536	-0.369779	0.7201064	0.88968	-6.36314
RCOR2	-0.023111	6.7734479	-0.369761	0.7201193	0.88968	-6.363147
ANKRD19P	-0.028718	6.7230703	-0.369669	0.7201854	0.88968	-6.363183
TMPPE	0.025887	7.0722019	0.3694204	0.7203643	0.88968	-6.363281
KCNE2	-0.025744	6.6844977	-0.369376	0.7203959	0.88968	-6.363299
MRPL34	-0.048653	10.902453	-0.369267	0.7204749	0.88968	-6.363342
LOC728715	-0.082923	8.2788058	-0.369249	0.7204874	0.88968	-6.363349
SPAG16	0.0234901	6.8220741	0.3692216	0.7205073	0.88968	-6.36336

ANAPC2	-0.025227	6.9084744	-0.369195	0.7205266	0.88968	-6.36337
SLC25A47	0.0502005	6.9875449	0.3691172	0.7205826	0.88968	-6.363401
ZNF184	-0.02382	7.3081543	-0.369015	0.7206563	0.88969	-6.363441
ADAMTS1	0.0277389	6.8311155	0.368915	0.7207281	0.88969	-6.36348
DIRAS1	0.0253112	6.8023004	0.3688231	0.7207943	0.88969	-6.363516
IL24	-0.028936	7.1870185	-0.368763	0.7208377	0.88969	-6.36354
LINC01597	-0.03854	6.9552549	-0.368659	0.7209122	0.88971	-6.363581
ANP32A	0.0258837	7.5899532	0.3685637	0.720981	0.88972	-6.363618
GFRA4	0.0321973	6.9671158	0.3682037	0.7212403	0.88995	-6.36376
TOX2	-0.025548	7.0593235	-0.368136	0.7212889	0.88995	-6.363786
ABCD1	-0.02449	6.7285435	-0.367797	0.7215332	0.89002	-6.36392
RMI1	0.0404321	8.800306	0.3677447	0.7215709	0.89002	-6.36394
SNORA17B	0.0252324	6.9995058	0.3676746	0.7216214	0.89002	-6.363968
ALKBH2	0.0296906	8.7070582	0.3676547	0.7216357	0.89002	-6.363975
CORO2A	0.0251622	6.8725825	0.367631	0.7216528	0.89002	-6.363985
TLE4	0.0263779	8.0554509	0.3674001	0.721819	0.89015	-6.364075
SWI5	0.0501482	9.5573178	0.3673113	0.721883	0.89016	-6.36411
C1QTNF1	-0.028199	6.8688963	-0.367166	0.7219874	0.89021	-6.364167
TTI2	-0.036911	8.8319569	-0.366862	0.7222067	0.8904	-6.364286
ATF6B	0.029991	7.4638002	0.3666719	0.7223437	0.8905	-6.36436
RPLP0P2	0.0396546	6.8885985	0.3665551	0.7224279	0.89051	-6.364406
TEDDM1	-0.029023	6.986915	-0.366484	0.7224792	0.89051	-6.364434
GAS2L2	-0.027057	6.8185592	-0.36604	0.7227989	0.89082	-6.364607
TSKS	0.0230304	6.73106	0.3659469	0.7228662	0.89082	-6.364644
POLR3D	0.0258498	7.2742687	0.3658889	0.722908	0.89082	-6.364666
IVNS1ABP	-0.024956	9.1603698	-0.365635	0.7230907	0.89097	-6.364765
EGFL7	0.0224049	6.7715279	0.3654523	0.7232228	0.89099	-6.364837
SNORA37	-0.02363	6.9482419	-0.365444	0.7232291	0.89099	-6.36484
SNTA1	-0.028947	8.1884759	-0.36527	0.7233543	0.89107	-6.364908
RERG-AS1	0.0276398	6.9663672	0.3649614	0.7235767	0.89115	-6.365028
SOCS3	-0.025734	6.9993239	-0.364728	0.723745	0.89115	-6.365119
AFAP1	-0.029134	6.8121218	-0.3646	0.7238375	0.89115	-6.365169
INTS4	0.0240977	7.9674354	0.3642598	0.7240827	0.89115	-6.365301
SLC15A4	0.0343736	9.4182177	0.3642107	0.7241181	0.89115	-6.36532
BANK1	-0.041426	7.7571939	-0.364163	0.7241522	0.89115	-6.365338
UHRF1	0.0284771	8.7834971	0.364145	0.7241655	0.89115	-6.365346
C1QL2	-0.039873	7.0956936	-0.364109	0.7241911	0.89115	-6.365359
GOSR2	0.0295739	7.7363663	0.3638656	0.724367	0.89115	-6.365454
PAX7	0.030469	6.8917991	0.3638555	0.7243743	0.89115	-6.365458
TRAF3IP1	0.0242234	6.9305353	0.363822	0.7243985	0.89115	-6.365471
FOXL2	-0.024458	6.6748594	-0.363811	0.7244067	0.89115	-6.365475
AP1G2	0.0389223	8.2858695	0.3637284	0.724466	0.89115	-6.365507
MBL1P	0.0352246	6.8887423	0.3636792	0.7245016	0.89115	-6.365527

DPY19L2	0.0268499	6.6945529	0.3635306	0.7246088	0.89115	-6.365584
MRGPRX4	-0.036057	6.9734676	-0.36352	0.7246165	0.89115	-6.365588
PHTF1	-0.036415	8.2051999	-0.36342	0.7246887	0.89115	-6.365627
MRPS18A	-0.047314	9.1298692	-0.363415	0.7246919	0.89115	-6.365629
EYA2	0.0245062	6.8465019	0.3633993	0.7247035	0.89115	-6.365635
MINDY1	0.0256999	7.6271429	0.3633803	0.7247172	0.89115	-6.365642
SLC26A7	-0.031027	6.8276551	-0.363362	0.7247301	0.89115	-6.365649
LDHAL6A	-0.042547	7.0366615	-0.363183	0.7248594	0.89115	-6.365719
PALB2	-0.03033	8.0728626	-0.363136	0.7248934	0.89115	-6.365737
ADCY6	0.0235979	6.8910542	0.3629848	0.7250026	0.89115	-6.365796
ROR1	0.0242908	6.9915199	0.362927	0.7250443	0.89115	-6.365818
HIST2H3C	-0.036782	6.7904685	-0.362915	0.7250531	0.89115	-6.365823
MAPK14	-0.025652	7.0809598	-0.362887	0.7250731	0.89115	-6.365834
SNRPD2	-0.028805	10.640834	-0.362698	0.7252097	0.89125	-6.365907
PAX6	-0.023779	6.7957831	-0.362536	0.7253265	0.89131	-6.36597
APPBP2	-0.027268	8.221442	-0.362436	0.7253986	0.89133	-6.366008
CACNG1	-0.030598	7.0298963	-0.362265	0.725522	0.89134	-6.366074
SUMO3	-0.031108	11.552849	-0.362252	0.7255312	0.89134	-6.366079
NXN	0.0255485	6.9193308	0.3617953	0.7258612	0.89167	-6.366256
EYS	0.0338837	7.1413871	0.3616367	0.7259757	0.89174	-6.366317
HDGFL1	0.0282161	7.0361324	0.3609851	0.7264462	0.89222	-6.366568
DUS1L	0.0466283	8.5559286	0.3609189	0.7264941	0.89222	-6.366594
ADGRG4	-0.027697	6.8914162	-0.36084	0.7265514	0.89222	-6.366624
SLC30A3	0.0245668	7.0113825	0.360713	0.7266428	0.89226	-6.366673
HPS1	0.0258825	7.5204102	0.3605353	0.7267711	0.89234	-6.366742
ZNF772	-0.027986	6.7991374	-0.360271	0.7269623	0.8925	-6.366843
COL11A1	0.0239342	6.8738107	0.3599085	0.7272239	0.89274	-6.366983
DOCK9	-0.029177	7.1596226	-0.359751	0.7273376	0.89281	-6.367043
MIR1224	0.0321438	7.2033432	0.3596128	0.7274376	0.89281	-6.367096
ZFP1	-0.034481	7.4238448	-0.359579	0.7274619	0.89281	-6.367109
PMM1	-0.031197	8.7799958	-0.359338	0.7276364	0.89294	-6.367202
THUMPD1	0.0376199	8.1966962	0.3592649	0.727689	0.89294	-6.36723
THEMIS2	-0.028584	7.1586013	-0.358894	0.7279572	0.89317	-6.367372
RPS6KC1	-0.030172	7.2543216	-0.358694	0.7281019	0.89317	-6.367449
RPUSD2	-0.02716	10.405601	-0.35851	0.7282344	0.89317	-6.367519
INSL5	0.0475241	6.9556671	0.3584634	0.7282684	0.89317	-6.367537
TSPO	-0.023643	9.0338432	-0.358382	0.728327	0.89317	-6.367568
NUDT11	0.0232751	6.8344121	0.3582615	0.7284143	0.89317	-6.367614
SFR1	-0.0266	7.5942525	-0.358253	0.7284204	0.89317	-6.367617
SNORD96B	0.0280941	6.8877967	0.3582333	0.7284348	0.89317	-6.367625
SH2D2A	0.024055	6.9483533	0.3581907	0.7284655	0.89317	-6.367641
TMEM104	-0.025059	6.8882138	-0.358163	0.7284855	0.89317	-6.367652
CCP110	-0.067292	8.9306905	-0.35761	0.7288858	0.89358	-6.367863

MAP7D3	0.0397638	7.415113	0.3573141	0.7290995	0.89377	-6.367976
MIR371A	-0.028605	6.9005535	-0.357171	0.7292031	0.89382	-6.368031
DNAH6	-0.022049	6.9114912	-0.35691	0.7293916	0.89398	-6.36813
TBC1D28	-0.02765	6.8498039	-0.356608	0.7296099	0.89414	-6.368245
FTH1P8	0.035881	8.9865354	0.3565326	0.7296647	0.89414	-6.368274
CISD1	0.0303678	11.974039	0.3563707	0.7297819	0.89414	-6.368335
SPATA5L1	0.0376932	9.1049244	0.3563245	0.7298153	0.89414	-6.368353
ADSS	-0.041698	9.5781189	-0.3563	0.7298332	0.89414	-6.368362
TCP11L1	-0.036223	7.9623555	-0.356118	0.7299644	0.89419	-6.368431
PATZ1	0.0322746	7.0872236	0.3560727	0.7299975	0.89419	-6.368449
MRPL41	0.0401115	10.581994	0.355994	0.7300545	0.89419	-6.368479
MEGF8	-0.027478	7.0087982	-0.355867	0.7301461	0.89423	-6.368527
CORO1C	0.0555126	8.7600009	0.3556732	0.7302866	0.89432	-6.3686
YY1AP1	-0.027206	8.4671859	-0.355479	0.7304271	0.89439	-6.368674
KCTD18	-0.028691	7.418147	-0.355426	0.7304653	0.89439	-6.368694
GADD45GIP1	-0.038049	7.6583315	-0.355284	0.730568	0.89444	-6.368748
TRIM4	-0.024507	8.4466324	-0.355198	0.7306308	0.89444	-6.368781
CA5B	-0.040035	7.2912115	-0.355022	0.7307578	0.89452	-6.368848
CRYBG1	0.0259454	7.5928383	0.3549169	0.7308341	0.89454	-6.368887
MS4A7	-0.026725	7.3420859	-0.354775	0.7309369	0.89459	-6.368941
SRSF9	-0.035346	12.378315	-0.354598	0.7310647	0.8946	-6.369008
SLC38A7	0.0353693	7.0068552	0.3545475	0.7311015	0.8946	-6.369027
TMEM167B	-0.032167	8.2873049	-0.354514	0.7311256	0.8946	-6.36904
C8orf82	0.0399971	7.7438998	0.3539916	0.731504	0.89499	-6.369238
RIMS3	-0.035201	9.912738	-0.353526	0.731841	0.89532	-6.369413
VEZT	0.0271773	8.1611954	0.3533725	0.7319525	0.89535	-6.369472
RGS12	-0.022286	6.8737868	-0.353326	0.7319862	0.89535	-6.369489
FAM181B	-0.025714	6.857796	-0.353113	0.7321404	0.89543	-6.369569
ZNF484	-0.039557	7.1062733	-0.35307	0.7321716	0.89543	-6.369586
EBF4	0.0256085	6.888396	0.3528865	0.7323045	0.89552	-6.369655
GLUL	0.0249028	6.9735768	0.3527866	0.7323769	0.89552	-6.369693
LIPE	-0.033567	7.1343092	-0.352708	0.7324337	0.89552	-6.369722
TMEM205	-0.055231	10.920383	-0.35246	0.7326139	0.89567	-6.369816
REST	0.0262966	6.9873546	0.3522386	0.732774	0.89579	-6.369899
ATP9A	-0.030583	6.810934	-0.351713	0.7331548	0.89611	-6.370096
NQO2	0.0310688	8.9257783	0.3517072	0.7331591	0.89611	-6.370099
HSP90AA1	-0.03153	11.162365	-0.350974	0.7336908	0.89665	-6.370374
PSMD12	-0.03263	9.8311084	-0.350927	0.7337245	0.89665	-6.370391
HTRA2	0.0379996	8.958309	0.3505967	0.7339643	0.89687	-6.370515
FOXF2	-0.023279	6.8020106	-0.350464	0.7340608	0.89689	-6.370565
KIAA1191	-0.024217	9.4199014	-0.350321	0.7341641	0.89689	-6.370618
COL6A3	-0.025831	6.891502	-0.350279	0.7341945	0.89689	-6.370634
LDLRAD4-AS	-0.043761	7.0316462	-0.35012	0.7343097	0.89689	-6.370693

NUDT21	-0.044537	8.6235052	-0.349996	0.7344001	0.89689	-6.37074
NOL3	0.0361072	7.0255677	0.3499637	0.7344233	0.89689	-6.370752
HAUS5	-0.028273	7.4245894	-0.349933	0.7344459	0.89689	-6.370764
BATF	-0.045561	8.9186726	-0.34989	0.7344765	0.89689	-6.370779
CLP1	0.0313447	8.4456581	0.3496952	0.7346181	0.89699	-6.370852
USE1	-0.032938	7.8959718	-0.349338	0.734877	0.89723	-6.370986
NOXO1	0.0276884	7.0541185	0.349168	0.7350006	0.89731	-6.371049
CCDC191	-0.024577	6.9635485	-0.348992	0.7351282	0.89734	-6.371115
OPA1	0.0321966	7.6873565	0.3489594	0.735152	0.89734	-6.371127
TMED5	0.0541194	10.028678	0.3488418	0.7352373	0.89737	-6.371171
DONSON	0.0269598	8.4207551	0.3486792	0.7353553	0.89739	-6.371232
PSMA5	0.0337285	12.312828	0.3486534	0.735374	0.89739	-6.371241
TDRD12	0.0312781	6.9921864	0.348519	0.7354715	0.89743	-6.371291
LOC728024	0.0330868	7.2569574	0.3483038	0.7356277	0.89754	-6.371371
TCIRG1	0.0247445	7.155782	0.3482064	0.7356984	0.89754	-6.371408
MBNL1	-0.040888	9.78903	-0.348077	0.7357926	0.89754	-6.371456
AHRR	-0.022813	6.7467025	-0.34806	0.7358047	0.89754	-6.371462
14-Sep	0.0241092	6.7353973	0.3478853	0.7359315	0.89762	-6.371527
DIABLO	0.0216466	9.6046311	0.3477414	0.7360359	0.89767	-6.37158
TANGO6	-0.047579	7.6213692	-0.34736	0.7363129	0.89786	-6.371722
GLCCI1	0.0331508	7.3784995	0.3472381	0.7364014	0.89786	-6.371767
LBX2	-0.023045	6.796578	-0.347203	0.7364271	0.89786	-6.37178
CTSS	-0.039572	7.2578502	-0.347185	0.73644	0.89786	-6.371787
AFG3L2	-0.031333	11.060323	-0.347111	0.7364936	0.89786	-6.371814
TMEM5	-0.033887	10.109122	-0.347023	0.7365578	0.89786	-6.371847
BMP1	-0.024366	6.9632022	-0.346567	0.7368888	0.89818	-6.372016
SPATC1L	0.0247915	6.9648759	0.3464955	0.7369406	0.89818	-6.372043
RPS26P11	0.0376175	14.13232	0.3461077	0.7372223	0.89844	-6.372186
KCNK10	0.0239592	6.86634	0.3459611	0.7373288	0.89847	-6.37224
PPM1B	-0.027775	7.4209142	-0.345913	0.7373639	0.89847	-6.372258
IL37	-0.034249	6.8924048	-0.345527	0.7376441	0.89847	-6.372401
UCK2	-0.030101	9.195934	-0.345462	0.7376915	0.89847	-6.372425
AADACL4	0.0265789	6.8976565	0.3454455	0.7377034	0.89847	-6.372431
IFI44L	-0.023641	6.9902544	-0.345434	0.7377118	0.89847	-6.372435
KRIT1	0.0256612	7.4499621	0.3454176	0.7377236	0.89847	-6.372441
RMI2	-0.023101	8.4425239	-0.345251	0.7378444	0.89847	-6.372502
BAHCC1	0.0329856	6.9049488	0.3450722	0.7379746	0.89847	-6.372568
METTL13	-0.032164	9.3579967	-0.345064	0.7379809	0.89847	-6.372572
VPS4B	-0.035115	9.5117297	-0.345008	0.7380216	0.89847	-6.372592
ZNF79	-0.026652	7.2537539	-0.345004	0.7380239	0.89847	-6.372593
MARCKS	0.030384	7.4523167	0.3449811	0.7380408	0.89847	-6.372602
CTNNBIP1	0.0325032	7.4592272	0.3447245	0.7382273	0.89862	-6.372697
RBM15	0.042086	9.1638034	0.3445323	0.738367	0.89871	-6.372767

SOX12	0.0397831	7.0445726	0.3443153	0.7385247	0.89883	-6.372847
ARHGEF37	-0.022187	6.8676416	-0.344122	0.7386655	0.89888	-6.372919
FZD3	0.0335904	7.442775	0.3440153	0.7387428	0.89888	-6.372958
PPP1R12A	-0.056141	7.8127671	-0.343819	0.7388857	0.89888	-6.37303
PSMD5-AS1	0.0321242	8.6984536	0.3436148	0.739034	0.89888	-6.373105
RNF14	-0.023345	8.5445498	-0.343445	0.7391578	0.89888	-6.373167
HNRNPA3	0.0447059	10.326761	0.3433305	0.7392407	0.89888	-6.373209
SLC45A2	-0.025049	6.8431131	-0.343319	0.7392488	0.89888	-6.373213
SLC27A1	0.0265867	6.9107366	0.343298	0.7392644	0.89888	-6.373221
LDHD	0.0250971	6.8050011	0.3432254	0.7393171	0.89888	-6.373248
TRIM68	-0.022326	6.7308741	-0.343135	0.7393831	0.89888	-6.373281
ADAM21P1	-0.026562	6.7967616	-0.34305	0.739445	0.89888	-6.373312
SPSB1	-0.025746	6.9710323	-0.343044	0.7394493	0.89888	-6.373314
LYPD1	-0.022947	7.0097113	-0.343024	0.7394636	0.89888	-6.373322
KATNBL1P6	-0.027461	6.9855965	-0.343016	0.7394692	0.89888	-6.373325
GOLGB1	-0.038778	7.5572284	-0.34299	0.7394881	0.89888	-6.373334
RAB11FIP2	-0.038976	8.4785535	-0.342786	0.7396369	0.89898	-6.373409
MOCOS	-0.025481	6.8208434	-0.34261	0.7397646	0.89906	-6.373473
STXBP5	-0.03127	7.4199124	-0.34249	0.7398518	0.8991	-6.373517
ITGB1BP2	-0.025082	6.8572205	-0.342293	0.7399956	0.8991	-6.37359
CFL2	0.0223073	7.498311	0.3422915	0.7399964	0.8991	-6.37359
PRKD3	0.0282326	7.1864277	0.342229	0.7400419	0.8991	-6.373613
UQCRQ	-0.029108	12.942632	-0.341925	0.7402627	0.89923	-6.373724
CEACAM6	-0.02886	6.8119428	-0.34192	0.7402669	0.89923	-6.373726
SMPD2	0.0234953	7.0579914	0.3418225	0.7403376	0.89924	-6.373761
DOCK10	0.0360516	9.3834337	0.3416249	0.7404813	0.89934	-6.373834
PATE2	-0.020829	7.0854112	-0.341321	0.7407028	0.89947	-6.373945
UBE2G2	0.0235822	8.8221774	0.341308	0.7407119	0.89947	-6.373949
PCLO	0.0266546	6.8267277	0.3410785	0.740879	0.89959	-6.374033
LILRB3	-0.032808	9.9627945	-0.340904	0.7410061	0.89964	-6.374097
ATP7B	0.0222146	6.9885157	0.3408582	0.7410393	0.89964	-6.374113
C10orf35	0.0288315	6.7992262	0.3406723	0.7411746	0.89973	-6.374181
LAGE3	-0.04198	10.612991	-0.340484	0.741312	0.89982	-6.37425
B4GALNT4	-0.024262	6.8316833	-0.340396	0.7413761	0.89982	-6.374282
C1S	-0.021622	6.8760427	-0.340027	0.7416444	0.89997	-6.374416
NCF2	-0.03076	7.2799532	-0.340014	0.741654	0.89997	-6.374421
SMAGP	-0.024124	6.7835855	-0.339976	0.7416813	0.89997	-6.374434
SCG2	0.0275131	6.8331656	0.3397499	0.7418462	0.90006	-6.374517
SLC4A8	-0.033697	7.0708549	-0.339587	0.7419645	0.90006	-6.374576
FSCB	-0.030651	6.9563757	-0.339467	0.7420519	0.90006	-6.374619
SPRY2	-0.0262	6.7623406	-0.339455	0.7420609	0.90006	-6.374624
KANSL3	-0.024961	10.007979	-0.339454	0.7420615	0.90006	-6.374624
STAC3	-0.023455	6.9081679	-0.339146	0.7422861	0.9002	-6.374736

PLEKHG1	0.024761	8.0877701	0.3390895	0.7423271	0.9002	-6.374756
MAPK12	0.0360654	8.4816857	0.3390402	0.7423629	0.9002	-6.374774
PDE6B	0.0239602	7.779477	0.338654	0.7426443	0.90046	-6.374914
C15orf57	-0.022743	9.0455221	-0.338362	0.7428571	0.9006	-6.37502
LOC1001316	-0.022731	6.8990096	-0.338329	0.7428807	0.9006	-6.375032
PCK1	0.0304267	6.9033028	0.3381828	0.7429876	0.90066	-6.375085
CELSR3	-0.032247	8.266025	-0.337888	0.7432024	0.90075	-6.375191
MIR383	-0.021651	6.8525896	-0.337667	0.7433634	0.90075	-6.375271
THUMPD3	-0.025831	7.4781842	-0.337607	0.7434073	0.90075	-6.375293
DUSP13	-0.024913	7.0211559	-0.337606	0.7434079	0.90075	-6.375293
PIAS2	-0.023979	8.4334453	-0.337588	0.7434209	0.90075	-6.375299
ACADVL	0.036381	9.1862442	0.3375724	0.7434323	0.90075	-6.375305
OTULIN	-0.023155	9.6097763	-0.337458	0.7435159	0.90077	-6.375347
LINC00482	-0.0233	6.7879932	-0.337339	0.7436022	0.90079	-6.375389
IFT80	-0.036556	7.1469777	-0.337267	0.743655	0.90079	-6.375415
KLHL42	0.0365876	9.0584894	0.3370494	0.7438135	0.90091	-6.375494
MYL9	-0.026264	6.7959453	-0.336826	0.7439762	0.90103	-6.375574
FAM74A4	-0.023163	6.9680017	-0.336716	0.7440568	0.90105	-6.375614
CYBRD1	-0.021927	6.8571359	-0.336357	0.7443182	0.9013	-6.375743
NEDD8	0.0305093	11.367466	0.3361369	0.7444787	0.90142	-6.375822
HEATR6	0.0301784	8.2242742	0.3360301	0.7445565	0.90142	-6.375861
VPS13B	0.0218252	7.0729434	0.3359593	0.7446081	0.90142	-6.375886
MAP3K9	-0.021256	6.8970275	-0.33586	0.7446807	0.90144	-6.375922
NBN	-0.032055	9.1002825	-0.335742	0.744767	0.90147	-6.375964
PER2	0.0316407	9.7980941	0.335466	0.7449679	0.90163	-6.376063
RGL1	-0.044502	7.3994846	-0.335257	0.74512	0.90174	-6.376138
GEM	0.021285	6.8456246	0.3351639	0.7451882	0.90175	-6.376172
FGD3	-0.045291	8.5614236	-0.334914	0.7453706	0.90187	-6.376261
GPC1	0.0216279	6.8028747	0.334777	0.7454704	0.90187	-6.37631
FBLN5	0.023925	7.1370785	0.3347698	0.7454757	0.90187	-6.376313
IFT88	-0.021746	7.050859	-0.334482	0.7456856	0.90205	-6.376416
ANKRD18A	-0.021417	6.8946669	-0.334101	0.7459638	0.9022	-6.376552
EAF1	-0.031363	8.4498611	-0.33408	0.7459787	0.9022	-6.376559
P3H1	0.0302101	8.2759266	0.3340234	0.7460202	0.9022	-6.37658
TBX2	0.0275531	6.6894359	0.3339787	0.7460529	0.9022	-6.376596
IFT122	-0.022368	7.2248242	-0.333684	0.746268	0.90237	-6.376701
PCBD2	-0.028851	7.2195693	-0.333524	0.7463843	0.90237	-6.376758
NEFM	-0.024926	6.8884144	-0.333511	0.746394	0.90237	-6.376763
SRP72	-0.030408	10.139605	-0.333452	0.7464375	0.90237	-6.376784
ERMP1	0.0236854	7.9074904	0.3332706	0.7465696	0.90242	-6.376848
C2orf16	-0.036664	7.0207395	-0.33319	0.7466286	0.90242	-6.376877
ENTPD5	-0.02307	7.1419051	-0.333135	0.7466687	0.90242	-6.376897
ENTPD7	0.0482542	7.1711371	0.3330148	0.7467563	0.90245	-6.37694

ANKRD34A	-0.025141	7.854315	-0.332663	0.7470134	0.90265	-6.377065
OR6M1	0.0209607	6.8738337	0.3325422	0.7471013	0.90265	-6.377108
FGA	-0.026011	6.9013957	-0.332541	0.7471025	0.90265	-6.377108
SPPL2B	0.0234358	6.9432359	0.3324379	0.7471775	0.90266	-6.377145
ZNF212	0.0256903	8.5062223	0.3322357	0.7473251	0.90269	-6.377217
SLC10A7	-0.027859	7.3529765	-0.332235	0.7473255	0.90269	-6.377217
MTCH2	-0.049451	8.4602826	-0.332104	0.7474213	0.90273	-6.377264
DSC3	0.0235575	6.9632635	0.3318365	0.7476166	0.90288	-6.377359
OR4D10	0.024571	6.9673089	0.3316729	0.7477361	0.90288	-6.377417
DNM1P46	-0.031899	6.9856889	-0.331658	0.7477468	0.90288	-6.377422
RANBP2	-0.032212	7.3903551	-0.331493	0.7478673	0.90288	-6.37748
MED4	-0.022588	9.4181959	-0.331491	0.747869	0.90288	-6.377481
C15orf52	0.0243763	6.8186436	0.3314036	0.7479328	0.90288	-6.377512
KBTBD7	-0.023105	7.0893283	-0.331342	0.7479777	0.90288	-6.377534
OPRK1	0.0204751	6.8811727	0.3310974	0.7481564	0.90289	-6.377621
AKT2	-0.025772	6.9496392	-0.330957	0.7482587	0.90289	-6.37767
ITPR2	0.0432993	7.1817191	0.3309304	0.7482784	0.90289	-6.37768
ZNF385C	0.0242737	7.1151223	0.3308197	0.7483593	0.90289	-6.377719
GP6	0.0374842	6.9214983	0.3307702	0.7483955	0.90289	-6.377737
RHPN2	-0.031039	9.2576521	-0.330759	0.7484033	0.90289	-6.37774
C9orf24	-0.022999	6.7983468	-0.330736	0.7484205	0.90289	-6.377749
RPS16	-0.024322	14.379374	-0.330631	0.7484975	0.90291	-6.377786
HOOK2	0.0342264	7.9249014	0.3304204	0.748651	0.90298	-6.37786
P4HA1	0.03825	9.4130079	0.3303826	0.7486786	0.90298	-6.377874
TP53TG3	0.0220576	6.7973214	0.3302645	0.748765	0.90301	-6.377915
CYTH3	0.0238532	7.5343452	0.3301626	0.7488394	0.90301	-6.377951
RTL8B	0.0248246	6.8003889	0.3299591	0.7489881	0.90301	-6.378023
FAM129C	-0.02539	6.9089184	-0.329951	0.7489942	0.90301	-6.378026
RPL36	0.0268894	11.204046	0.3299247	0.7490132	0.90301	-6.378035
KERA	0.0319131	6.9105851	0.3298266	0.749085	0.90302	-6.37807
SNX19	0.0251289	7.3145159	0.3295744	0.7492692	0.90317	-6.378159
ZNF555	0.025007	7.0499436	0.3293927	0.7494021	0.90324	-6.378223
MMP25	0.0271289	6.8747686	0.3293249	0.7494516	0.90324	-6.378247
RGS9BP	0.0268342	6.9200021	0.3291556	0.7495754	0.90332	-6.378307
LTB4R2	0.0229617	6.7634877	0.3289056	0.7497581	0.90342	-6.378395
MIR760	-0.023572	6.9592817	-0.328863	0.7497893	0.90342	-6.37841
UVRAG	0.0308945	8.1910598	0.328708	0.7499026	0.90349	-6.378464
C1orf64	-0.027495	6.8957608	-0.328499	0.7500555	0.9036	-6.378538
ZNF446	0.0303463	6.9482309	0.328378	0.7501439	0.90363	-6.37858
ARSG	0.0264904	7.0097829	0.3280349	0.7503947	0.90385	-6.378701
DMRT1	0.0237194	6.8357762	0.3277772	0.7505832	0.90385	-6.378791
ZFYVE26	-0.024481	8.59804	-0.32773	0.7506174	0.90385	-6.378808
LINC00094	0.0244484	8.1874094	0.3276104	0.7507052	0.90385	-6.37885

METTL26	0.0280518	8.9207388	0.3276044	0.7507096	0.90385	-6.378852
PIGZ	-0.025203	6.7036623	-0.32757	0.750735	0.90385	-6.378864
SH3RF3	0.0223478	6.906285	0.327534	0.7507611	0.90385	-6.378876
C20orf24	0.02162	12.023869	0.3273614	0.7508873	0.90387	-6.378937
CHRDL2	-0.022464	6.9755572	-0.32734	0.7509029	0.90387	-6.378944
VPS9D1	-0.023365	6.7881413	-0.327193	0.7510107	0.90392	-6.378996
CD14	-0.029542	6.9033382	-0.326939	0.7511961	0.90392	-6.379085
GPHA2	0.0205418	6.861339	0.3269261	0.7512057	0.90392	-6.379089
PRPSAP1	-0.044885	10.019261	-0.326888	0.7512335	0.90392	-6.379103
EDEM1	-0.03377	9.4329206	-0.326841	0.751268	0.90392	-6.379119
ACSS2	0.0204729	6.8035883	0.3266741	0.7513901	0.90392	-6.379177
ENAH	-0.030953	7.0637886	-0.326576	0.751462	0.90392	-6.379212
LRRN4	-0.021987	6.8074054	-0.326521	0.7515022	0.90392	-6.379231
LOC729860	0.025188	6.8623694	0.326467	0.7515416	0.90392	-6.37925
ZNF839	-0.021465	8.3092745	-0.326356	0.7516229	0.90392	-6.379289
ATP5I	0.0303981	12.058016	0.3262039	0.7517341	0.90392	-6.379342
MICAL2	0.0233042	6.7378925	0.3261856	0.7517475	0.90392	-6.379348
UCK1	-0.038697	7.1878765	-0.326185	0.7517477	0.90392	-6.379348
MIR658	0.0243844	7.2448292	0.3260721	0.7518306	0.90394	-6.379388
INSIG1	0.0259187	9.9450892	0.3257411	0.7520728	0.90408	-6.379503
RPL37A	0.0237451	11.100839	0.3257205	0.7520879	0.90408	-6.37951
IL4R	0.0338632	8.6400348	0.3255844	0.7521875	0.90408	-6.379558
SLC9A3	0.0222032	6.840867	0.3255741	0.7521951	0.90408	-6.379561
LRRC23	0.028328	7.2739617	0.3253125	0.7523865	0.90424	-6.379652
MDM1	0.028452	7.25433	0.3250247	0.7525972	0.90436	-6.379753
ITGA5	0.0247877	6.789172	0.3249259	0.7526696	0.90436	-6.379787
NLRP7	0.0251886	7.2799745	0.3249198	0.752674	0.90436	-6.379789
MTCH1	-0.026539	11.692633	-0.32456	0.7529377	0.90452	-6.379914
CDCP1	0.0215102	6.9366407	0.324518	0.7529682	0.90452	-6.379929
NDUFA9	-0.020862	11.380667	-0.324375	0.7530726	0.90452	-6.379978
PHACTR3	-0.020525	6.8325111	-0.324346	0.7530941	0.90452	-6.379989
TNFRSF4	-0.027055	6.9124057	-0.324248	0.7531657	0.90452	-6.380022
KIR2DL5B	0.0258988	6.886825	0.3241185	0.7532607	0.90452	-6.380067
LAMA2	0.0214183	6.7992866	0.3240721	0.7532947	0.90452	-6.380084
SIGLEC7	-0.020639	6.8458651	-0.324063	0.7533011	0.90452	-6.380087
RBL1	-0.027687	7.4781613	-0.323571	0.7536617	0.90485	-6.380257
APOLD1	0.0265784	6.9647711	0.3233667	0.7538113	0.90485	-6.380328
GPRC5C	0.0203299	6.8348397	0.3232882	0.7538688	0.90485	-6.380355
ACSF2	-0.02588	7.5228923	-0.323156	0.7539656	0.90485	-6.380401
SRRM3	0.0240036	6.8575726	0.3231032	0.7540044	0.90485	-6.380419
TRIM13	0.0204868	7.8813679	0.3230514	0.7540422	0.90485	-6.380437
CARS	-0.024739	8.4132365	-0.323046	0.754046	0.90485	-6.380439
GALE	0.0210393	7.8317734	0.3230069	0.7540749	0.90485	-6.380453

EMID1	-0.023159	6.7562808	-0.322881	0.754167	0.90489	-6.380496
ERP29	0.0267683	9.7294508	0.3227107	0.7542919	0.90496	-6.380555
SOX8	0.0240788	6.9443268	0.3225773	0.7543896	0.90501	-6.380601
CNKSR2	-0.027628	6.937197	-0.322414	0.7545092	0.90503	-6.380657
UNQ6494	0.0250611	8.0399208	0.3223261	0.7545737	0.90503	-6.380688
CPNE3	0.031427	10.45366	0.3222227	0.7546495	0.90503	-6.380723
KIAA0895L	-0.024618	6.8944849	-0.322191	0.754673	0.90503	-6.380734
HOXA3	0.0221391	6.816249	0.322123	0.7547225	0.90503	-6.380758
ANKRD53	0.0363768	7.0562828	0.3216794	0.7550476	0.90535	-6.380911
HERC2P8	0.0295636	7.754221	0.321455	0.7552121	0.90547	-6.380988
CDK20	0.0196021	6.8057244	0.3212128	0.7553896	0.90555	-6.381071
ACRBP	-0.023205	6.8107558	-0.321084	0.7554841	0.90555	-6.381116
GNAI3	-0.039003	7.9957556	-0.321069	0.7554951	0.90555	-6.381121
CDHR2	0.0252645	6.9224867	0.3210294	0.7555241	0.90555	-6.381134
CTH	0.0210826	7.4118985	0.3207676	0.755716	0.9057	-6.381224
PDCL3P4	-0.022422	7.0877649	-0.320671	0.7557871	0.90572	-6.381258
FAM173A	0.0421336	9.0591423	0.3201548	0.7561653	0.90609	-6.381434
STK25	0.0312536	9.3394711	0.3198481	0.7563902	0.90625	-6.38154
GINM1	0.0242329	7.7476485	0.3197863	0.7564356	0.90625	-6.381561
UST	-0.02076	8.1634125	-0.319719	0.7564846	0.90625	-6.381584
PPP1R1B	-0.031804	7.0519424	-0.319395	0.7567224	0.90646	-6.381695
KIFAP3	-0.035431	8.5744322	-0.318778	0.7571749	0.90693	-6.381905
CLPX	-0.033461	8.8508012	-0.318677	0.7572496	0.90693	-6.38194
AIMP2	0.0391907	11.773343	0.318576	0.7573234	0.90693	-6.381974
IRX3	0.0229142	6.8400225	0.3185269	0.7573595	0.90693	-6.381991
ZBTB38	0.0337782	7.0695356	0.3184315	0.7574295	0.90694	-6.382024
CCPG1	0.0240126	7.2567812	0.3183513	0.7574883	0.90694	-6.382051
LOC729254	0.0228387	6.8127235	0.3179583	0.7577768	0.90718	-6.382185
PRR14	0.0318701	10.56646	0.317898	0.7578209	0.90718	-6.382205
WDR37	0.0217099	8.1469893	0.317479	0.7581285	0.90748	-6.382348
ELANE	-0.026653	6.7920433	-0.317251	0.758296	0.90754	-6.382426
RUNX1	0.0254408	7.2847871	0.3171552	0.7583662	0.90754	-6.382458
ZNF33A	-0.026891	7.8013195	-0.317153	0.7583678	0.90754	-6.382459
NR2F2	0.0204593	7.0886233	0.31705	0.7584434	0.90754	-6.382494
ABCC6P2	-0.024917	7.0297971	-0.316933	0.7585292	0.90754	-6.382533
UNC119B	-0.02425	8.0205838	-0.316898	0.7585553	0.90754	-6.382546
CRABP2	0.0267859	7.0893801	0.3162959	0.7589971	0.90786	-6.38275
MSH3	-0.026772	11.000835	-0.316258	0.7590251	0.90786	-6.382762
ENSA	-0.023505	8.6981572	-0.316107	0.7591356	0.90786	-6.382813
TDP1	-0.021145	8.3866329	-0.316088	0.7591501	0.90786	-6.38282
SOCS5	-0.021629	7.3679209	-0.315998	0.7592159	0.90786	-6.38285
FCF1	-0.021304	7.3185525	-0.315963	0.7592413	0.90786	-6.382862
MIR573	-0.029168	6.946586	-0.315944	0.7592553	0.90786	-6.382869

RBM8A	-0.020594	6.8781279	-0.315701	0.7594341	0.908	-6.382951
RFLNB	-0.025888	6.9057991	-0.314944	0.7599898	0.90842	-6.383206
EEPD1	-0.027299	7.2236499	-0.314882	0.7600355	0.90842	-6.383227
ZPR1	0.025359	9.1589596	0.3148047	0.7600924	0.90842	-6.383254
PRAG1	0.0226134	8.6485919	0.3146331	0.7602185	0.90842	-6.383311
LY75	0.0233792	6.8616536	0.3146018	0.7602414	0.90842	-6.383322
CTHRC1	-0.02376	6.9391864	-0.314598	0.760244	0.90842	-6.383323
IL25	0.0253314	7.4642645	0.3143954	0.7603932	0.90842	-6.383391
ACTR1A	-0.033209	9.6336721	-0.314367	0.7604139	0.90842	-6.383401
ZMYM2	0.0263125	7.82899	0.3143399	0.7604339	0.90842	-6.38341
BOK	-0.024104	7.0792616	-0.314338	0.7604352	0.90842	-6.383411
FGF23	-0.024818	7.0685752	-0.314294	0.7604679	0.90842	-6.383426
RNF6	-0.022759	6.9756935	-0.313907	0.760752	0.90868	-6.383556
ZNF322	0.0242173	7.1958282	0.3137336	0.7608794	0.90872	-6.383614
8-Mar	-0.020324	7.0145122	-0.313692	0.76091	0.90872	-6.383628
GLDC	0.0199328	6.7977647	0.3135859	0.760988	0.90874	-6.383664
KRT17	-0.023977	6.7730265	-0.313491	0.7610576	0.90875	-6.383696
PTPN9	-0.023489	7.1313945	-0.313373	0.7611445	0.90877	-6.383735
CENPI	0.0244985	7.6969483	0.3133017	0.7611969	0.90877	-6.383759
DTX3L	0.0257461	7.3337137	0.3128634	0.7615191	0.90908	-6.383906
HBQ1	-0.019063	6.748444	-0.312684	0.7616514	0.9091	-6.383966
CDC20	-0.041785	11.765446	-0.312667	0.7616634	0.9091	-6.383972
ZNF821	-0.030875	7.3790549	-0.312528	0.761766	0.90915	-6.384019
VIPR1	-0.024735	7.0346784	-0.312434	0.7618352	0.90916	-6.38405
PYM1	-0.02705	8.6012692	-0.312338	0.7619051	0.90917	-6.384082
EPS8	0.0223533	6.8011802	0.3122205	0.7619918	0.90918	-6.384121
GATC	-0.024196	8.1788704	-0.311943	0.7621962	0.90918	-6.384214
CPLX2	0.021928	7.0585168	0.3118958	0.7622306	0.90918	-6.38423
SCPEP1	-0.024786	9.7061803	-0.311895	0.762231	0.90918	-6.38423
TRAM1	-0.044157	12.151618	-0.311894	0.7622322	0.90918	-6.384231
BHLHE40	0.0202558	8.1132583	0.3117635	0.762328	0.90922	-6.384274
TMF1	-0.030055	7.4801223	-0.311674	0.762394	0.90923	-6.384304
TMEM181	0.0391252	9.2208758	0.3115111	0.7625135	0.90929	-6.384358
SP100	-0.023175	7.2962743	-0.311224	0.7627248	0.90929	-6.384454
SYT7	0.0289724	7.173235	0.31121	0.762735	0.90929	-6.384459
CPSF6	0.034862	7.718104	0.3110325	0.7628656	0.90929	-6.384518
ABL2	0.0216785	6.8467444	0.3109595	0.7629193	0.90929	-6.384542
LRPPRC	0.0321929	9.8880659	0.3108286	0.7630156	0.90929	-6.384586
PRSS12	-0.021399	6.8654611	-0.310814	0.7630266	0.90929	-6.384591
DHX29	0.0237224	8.7792163	0.3108061	0.7630322	0.90929	-6.384594
PPP3CA	-0.03152	7.6034437	-0.310766	0.7630614	0.90929	-6.384607
NDUFA8	-0.028244	11.840517	-0.31076	0.7630659	0.90929	-6.384609
CSNK1A1	0.0201841	7.7558857	0.3106491	0.7631477	0.90931	-6.384646

RASGRF1	0.0363831	6.8827739	0.3102247	0.76346	0.9096	-6.384787
HOXB6	-0.022458	7.0818116	-0.310146	0.763518	0.9096	-6.384813
CTSL3P	-0.02438	6.9328876	-0.309887	0.7637087	0.90962	-6.384899
LETMD1	-0.02331	8.9755226	-0.309864	0.7637255	0.90962	-6.384907
RPLP2	0.0411878	14.524187	0.3098018	0.7637712	0.90962	-6.384927
PARP1	0.0252355	12.436405	0.3097908	0.7637792	0.90962	-6.384931
CRACR2A	0.0225087	6.8559341	0.3094824	0.7640062	0.90981	-6.385033
FAM57B	-0.01933	6.9518561	-0.309172	0.7642345	0.90986	-6.385136
ZNF70	-0.020864	6.8815525	-0.309146	0.7642541	0.90986	-6.385145
SMCO4	0.02621	9.5208485	0.3090303	0.764339	0.90986	-6.385183
C11orf21	0.0317586	6.8467243	0.3090277	0.764341	0.90986	-6.385184
DEAF1	0.0199068	7.0220976	0.3089443	0.7644024	0.90986	-6.385212
SETD7	-0.026157	7.0476134	-0.308909	0.7644282	0.90986	-6.385223
PHYH	-0.021998	7.0160207	-0.308837	0.7644813	0.90986	-6.385247
FAM24B	0.0210523	6.8064137	0.3085387	0.7647009	0.91005	-6.385346
MAPK8IP2	0.0204032	6.9722918	0.3082805	0.7648911	0.9102	-6.385431
LINC01915	0.0317813	7.0723546	0.3081392	0.7649951	0.91025	-6.385478
PHLDB1	0.0213472	6.9092531	0.3078509	0.7652074	0.91043	-6.385573
MRM2	-0.020323	7.7019784	-0.307757	0.7652763	0.91043	-6.385604
ZNF548	0.0234029	7.8849877	0.3074369	0.7655123	0.91052	-6.38571
EEF1A2	-0.021529	6.7263192	-0.307301	0.7656126	0.91052	-6.385754
4-Sep	0.0206497	7.0151355	0.3072922	0.765619	0.91052	-6.385757
ERP27	0.0239296	7.298344	0.307251	0.7656493	0.91052	-6.385771
EPB41	0.0235535	7.4939597	0.3071624	0.7657146	0.91052	-6.3858
RPS9	-0.025741	13.598148	-0.307048	0.765799	0.91052	-6.385838
DHRS12	0.0208691	7.0922763	0.3070363	0.7658074	0.91052	-6.385842
CD300C	0.0225292	6.8690788	0.3069497	0.7658712	0.91052	-6.38587
FLJ42258	-0.020324	6.9766441	-0.306898	0.7659095	0.91052	-6.385887
GAS8	0.0242287	6.6630464	0.3066326	0.7661048	0.91062	-6.385974
SMA4	0.0246261	7.3844311	0.306597	0.766131	0.91062	-6.385986
HOXA11-AS	-0.019407	6.8124872	-0.306407	0.7662707	0.91062	-6.386048
CIDEC	-0.023142	6.9639591	-0.306332	0.7663264	0.91062	-6.386073
DAB2	0.0216462	6.8577355	0.3063001	0.7663498	0.91062	-6.386083
ZNF688	0.0201987	7.0305619	0.3062705	0.7663716	0.91062	-6.386093
ARF6	-0.032141	7.103827	-0.305795	0.7667217	0.91097	-6.386249
PDGFRL	0.0227557	6.8674818	0.3056901	0.7667993	0.91098	-6.386284
CXCL8	0.0199082	7.1780798	0.3055498	0.7669027	0.911	-6.386329
ASPRV1	-0.021367	6.7983176	-0.305504	0.7669365	0.911	-6.386345
KIF13B	0.0202295	6.8965245	0.3051933	0.7671655	0.9111	-6.386446
ANXA2	0.0193692	7.6370068	0.3051414	0.7672037	0.9111	-6.386463
NAA25	-0.028017	7.9467582	-0.305132	0.7672107	0.9111	-6.386466
POLD4	0.0343224	8.1669787	0.3048163	0.7674434	0.91124	-6.386569
GOLGA6L5P	-0.027489	7.0270185	-0.304808	0.7674495	0.91124	-6.386572

FLT3	-0.019539	6.7706479	-0.304654	0.7675629	0.9113	-6.386622
SULT6B1	-0.022116	6.8806788	-0.304205	0.7678942	0.91154	-6.386769
SCG3	0.0198616	6.8891316	0.3041292	0.76795	0.91154	-6.386794
SELENOI	0.0321466	8.3916566	0.3041137	0.7679614	0.91154	-6.386799
RNF169	-0.024806	7.273461	-0.30399	0.7680528	0.91154	-6.386839
ABCC11	-0.024606	6.9403134	-0.303786	0.768203	0.91154	-6.386905
GPR137C	0.0335077	7.0138409	0.303763	0.76822	0.91154	-6.386913
ADGRL2	-0.026378	6.7548943	-0.303732	0.7682426	0.91154	-6.386923
SSBP1	-0.035516	11.946048	-0.303699	0.7682669	0.91154	-6.386934
DNAH14	0.0263955	6.8085259	0.30337	0.7685099	0.91164	-6.387041
CRELD1	0.0194783	7.2489234	0.3033635	0.7685147	0.91164	-6.387043
SLC25A24	-0.022946	6.8627134	-0.303335	0.7685357	0.91164	-6.387052
OSBP2	0.0247219	6.8069508	0.3031382	0.7686808	0.91168	-6.387116
SLCO1B1	0.0244027	6.9733466	0.3030303	0.7687604	0.91168	-6.387151
WDYHV1	-0.021306	8.226641	-0.302979	0.7687979	0.91168	-6.387168
COQ8A	0.0229693	8.7070075	0.3029363	0.7688298	0.91168	-6.387182
TP73-AS1	0.0301087	6.9347222	0.3028669	0.768881	0.91168	-6.387204
APOF	-0.027915	7.0539238	-0.302697	0.7690065	0.91168	-6.38726
C1orf112	0.0214869	8.5904542	0.3026907	0.769011	0.91168	-6.387262
NECTIN1	0.0205193	6.9255916	0.3024624	0.7691793	0.91177	-6.387336
LMLN	0.0222256	6.8582129	0.3023612	0.7692541	0.91177	-6.387368
FARP1	-0.018993	6.8543207	-0.302339	0.7692704	0.91177	-6.387376
ZNF24	-0.028845	7.4998783	-0.3019	0.7695943	0.91192	-6.387518
GHR	0.0222702	6.6771301	0.3017342	0.7697167	0.91192	-6.387571
NANOS1	0.0318429	7.3260097	0.3017065	0.7697371	0.91192	-6.38758
CCS	-0.022315	7.7100277	-0.301676	0.7697593	0.91192	-6.38759
BAIAP2L1	-0.020107	6.6649162	-0.301648	0.7697801	0.91192	-6.387599
SNTB1	-0.020551	6.8248948	-0.301617	0.7698029	0.91192	-6.387609
ATG13	-0.021437	7.0124761	-0.301577	0.7698327	0.91192	-6.387622
NPB	-0.030091	7.3669381	-0.301195	0.7701148	0.91215	-6.387746
PBLD	-0.018751	6.8856267	-0.300992	0.7702642	0.91215	-6.387811
SYNJ2BP	0.0324899	7.5064899	0.3009322	0.7703086	0.91215	-6.387831
TIGD1	0.0190512	7.0141701	0.3008873	0.7703418	0.91215	-6.387845
PANK3	0.0211863	7.4742482	0.300761	0.7704349	0.91215	-6.387886
PTN	-0.020186	6.8351264	-0.300728	0.7704597	0.91215	-6.387897
CISH	0.0230405	6.8085831	0.3007153	0.7704687	0.91215	-6.387901
RAB44	-0.024795	6.9203926	-0.300375	0.7707202	0.91237	-6.38801
PHAX	-0.024513	8.3221445	-0.300088	0.7709315	0.91251	-6.388102
CYFIP1	-0.019413	6.8177967	-0.300049	0.770961	0.91251	-6.388115
ZNF347	-0.022277	6.8815409	-0.299133	0.771637	0.91307	-6.388409
HSDL2	-0.02134	8.5320688	-0.29911	0.7716538	0.91307	-6.388417
LRGUK	-0.020229	6.8464937	-0.29908	0.7716765	0.91307	-6.388427
C5orf30	-0.02252	8.3787824	-0.299068	0.7716852	0.91307	-6.38843

LIAS	0.0230752	8.7552415	0.2987403	0.7719272	0.91328	-6.388535
TSPAN18	0.0233817	6.9174362	0.2983484	0.7722167	0.91345	-6.388661
LINC01547	-0.026376	6.9438295	-0.298306	0.7722478	0.91345	-6.388674
WWP1	-0.032466	9.5303633	-0.298302	0.7722507	0.91345	-6.388676
CASC3	0.0358006	9.0196056	0.298105	0.7723965	0.91354	-6.388739
LCOR	0.024484	7.6697656	0.2980282	0.7724532	0.91354	-6.388763
KNL1	0.0296181	7.229718	0.2978484	0.7725861	0.91362	-6.388821
IFITM4P	0.0238841	6.936883	0.2971458	0.7731053	0.91405	-6.389045
CDC42	-0.021538	8.7113171	-0.297121	0.773124	0.91405	-6.389053
LAMP5	0.0192764	6.7587793	0.2971	0.7731391	0.91405	-6.389059
SLX1B	-0.028597	7.0965618	-0.296887	0.7732964	0.91416	-6.389127
GAPVD1	0.0216088	9.4236047	0.2967905	0.7733679	0.91417	-6.389158
TOB1	0.0204325	8.4611031	0.2966635	0.7734618	0.91421	-6.389198
COQ2	0.0209097	9.6473111	0.296275	0.7737489	0.91448	-6.389322
OR1L4	0.024389	6.8950737	0.2959515	0.7739882	0.91468	-6.389425
LOC1001284	-0.018586	7.3734352	-0.295863	0.7740536	0.91468	-6.389453
NME1	-0.028208	10.98036	-0.295746	0.7741404	0.91468	-6.38949
C1orf229	-0.027417	6.8585729	-0.295705	0.7741704	0.91468	-6.389503
PHF20L1	0.0227495	7.5229451	0.2955353	0.7742959	0.91473	-6.389557
RNF166	0.0256219	7.4674651	0.2952975	0.7744718	0.91473	-6.389632
ATG3	0.0215108	8.7504521	0.2952737	0.7744893	0.91473	-6.38964
PDE4C	0.0646283	12.348181	0.2951354	0.7745917	0.91473	-6.389683
SLC9A3R1	0.0247273	9.8447333	0.2950388	0.7746631	0.91473	-6.389714
FHL1	-0.023463	6.8599917	-0.295015	0.7746809	0.91473	-6.389722
LOC1001284	-0.021745	6.8085533	-0.29499	0.7746995	0.91473	-6.389729
KANK2	0.0354953	7.669841	0.2949732	0.7747116	0.91473	-6.389735
PPARD	0.0183593	6.9756927	0.2947789	0.7748553	0.91477	-6.389796
WDR18	0.0371091	12.200137	0.2947562	0.7748721	0.91477	-6.389803
HEATR5A	0.0283274	7.5609679	0.2943464	0.7751752	0.91489	-6.389933
C7orf61	-0.022213	6.8559221	-0.294346	0.7751756	0.91489	-6.389933
ACTA2	0.0365601	9.0707981	0.2942754	0.7752277	0.91489	-6.389955
LZTR1	-0.034116	10.206634	-0.294275	0.7752279	0.91489	-6.389955
POLR3GL	0.0296136	9.3519443	0.2941134	0.7753476	0.91496	-6.390006
DDX18	-0.038619	10.989556	-0.293913	0.7754959	0.91506	-6.39007
ANKRD9	0.018504	6.8874493	0.2937949	0.7755832	0.91509	-6.390107
RBPMS	0.0196446	6.8590755	0.2936418	0.7756965	0.91512	-6.390155
MIR1323	-0.028942	7.0466006	-0.293523	0.7757845	0.91512	-6.390192
LOC284933	0.0207427	6.8505747	0.2934625	0.7758291	0.91512	-6.390211
GRSF1	-0.033194	10.327829	-0.293396	0.7758786	0.91512	-6.390232
POC1A	-0.035764	9.4981934	-0.29334	0.7759198	0.91512	-6.39025
PHACTR2	-0.020188	6.9361582	-0.293181	0.7760374	0.91518	-6.3903
SCRN2	-0.022938	6.9302019	-0.292833	0.7762948	0.91541	-6.390409
TFAMP1	-0.024236	7.2492215	-0.292718	0.7763802	0.91544	-6.390446

KLHL36	0.0243807	8.7285468	0.2924072	0.7766102	0.91559	-6.390543
PTGS2	-0.02544	6.7453193	-0.292369	0.7766384	0.91559	-6.390555
POLR3C	-0.026901	10.208161	-0.292095	0.7768413	0.91576	-6.390641
CEP135	-0.040741	8.6618554	-0.291531	0.7772585	0.91618	-6.390817
KLHL12	-0.022882	9.6317278	-0.291281	0.7774437	0.91626	-6.390896
COX6B2	0.0198121	6.8723984	0.2912665	0.7774547	0.91626	-6.3909
MIR326	-0.02327	6.930309	-0.291079	0.7775934	0.91627	-6.390959
LCP2	0.0207194	6.9604416	0.2910014	0.777651	0.91627	-6.390983
JMJD6	-0.019968	7.640318	-0.29097	0.7776745	0.91627	-6.390993
DHRS4L2	0.0206765	7.5485898	0.2909158	0.7777144	0.91627	-6.39101
KCTD13	0.0377355	7.7985364	0.2907257	0.7778552	0.91634	-6.391069
RASSF5	-0.02919	8.0854911	-0.290655	0.7779072	0.91634	-6.391091
TMEM185A	0.019068	7.8613552	0.2905815	0.777962	0.91634	-6.391114
CSNK1A1L	0.0245343	6.9805213	0.2903122	0.7781614	0.9165	-6.391198
ZNF408	0.0193992	8.0019082	0.2901478	0.7782832	0.91652	-6.391249
INSR	-0.034624	7.0821933	-0.290115	0.7783077	0.91652	-6.391259
TSSC2	-0.018867	6.7829027	-0.289773	0.7785607	0.91674	-6.391366
KCNJ10	-0.022309	7.217942	-0.289698	0.7786167	0.91674	-6.391389
OLFML3	0.0198969	6.9376553	0.2895882	0.7786978	0.91675	-6.391423
SQLE	-0.024065	10.404869	-0.289516	0.7787509	0.91675	-6.391445
GCC2	-0.026244	6.906405	-0.289426	0.7788181	0.91676	-6.391474
RSPH1	-0.02587	7.6316179	-0.289315	0.7788999	0.91678	-6.391508
PPP1R2	-0.029253	9.7360257	-0.289171	0.7790071	0.91683	-6.391553
NECTIN2	-0.01871	6.8374675	-0.288675	0.7793744	0.91712	-6.391707
TMEM110	0.0215459	7.1945526	0.2886295	0.7794081	0.91712	-6.391721
HABP4	-0.018669	7.8767688	-0.288578	0.7794462	0.91712	-6.391737
DCAF12L1	0.0209532	6.9539711	0.2884323	0.7795543	0.91718	-6.391782
EFHD1	0.0211692	6.7592107	0.2882699	0.7796747	0.91725	-6.391832
SLIT3	-0.02184	6.8960996	-0.288038	0.7798463	0.91737	-6.391904
NT5DC1	0.0190831	6.9974822	0.2878515	0.7799848	0.91746	-6.391961
PRKAB2	-0.023528	7.7279812	-0.287555	0.7802049	0.91753	-6.392053
TCEAL9	-0.025125	6.9782835	-0.287545	0.7802117	0.91753	-6.392056
LRG1	-0.032275	7.1178362	-0.287517	0.7802327	0.91753	-6.392064
SLC35F1	0.0292623	6.9507936	0.2873489	0.7803574	0.91757	-6.392116
C2CD2	-0.020678	6.9054116	-0.287307	0.7803884	0.91757	-6.392129
MIR623	-0.021277	6.8704422	-0.287118	0.7805283	0.91766	-6.392187
LACTB	-0.022938	7.4561988	-0.286807	0.7807591	0.91786	-6.392283
STAR	-0.019482	6.9487282	-0.286606	0.7809081	0.91796	-6.392345
LINC01364	0.0218071	6.8903856	0.2864597	0.7810168	0.91796	-6.39239
SUV39H2	0.0263526	7.1343475	0.2863213	0.7811194	0.91796	-6.392433
CD68	0.0304902	7.9119837	0.2861217	0.7812674	0.91796	-6.392494
MIR192	-0.033618	6.908844	-0.286068	0.7813069	0.91796	-6.39251
CECR6	0.0237513	6.9090597	0.2858399	0.7814764	0.91796	-6.39258

LRFN3	0.0194502	6.7763343	0.2858297	0.781484	0.91796	-6.392584
WASHC5	0.0255859	9.6428225	0.2857441	0.7815475	0.91796	-6.39261
ULBP1	-0.018456	6.7889553	-0.285734	0.7815549	0.91796	-6.392613
RAB3IL1	0.0187172	6.7073305	0.2856026	0.7816525	0.91796	-6.392653
CHD2	-0.03037	7.2385349	-0.285557	0.7816863	0.91796	-6.392667
OR4D6	0.0206279	6.9057648	0.2854931	0.7817337	0.91796	-6.392687
WSCD1	0.0232461	6.7828296	0.285475	0.7817471	0.91796	-6.392692
AP1M1	-0.027679	10.516162	-0.285415	0.7817916	0.91796	-6.392711
SIRT2	0.0233533	7.1587676	0.2854121	0.7817938	0.91796	-6.392712
ZNF410	0.027894	8.9240539	0.284739	0.7822932	0.91835	-6.392918
FAM105A	-0.028925	6.8961288	-0.284681	0.782336	0.91835	-6.392935
RPS10	0.0266068	14.361026	0.2846734	0.7823419	0.91835	-6.392938
MIR638	0.0282871	6.8891808	0.2846231	0.7823792	0.91835	-6.392953
LRRC75A-AS	-0.029104	13.884425	-0.283659	0.7830946	0.91886	-6.393247
TRIML1	0.0191226	7.0433363	0.2836512	0.7831005	0.91886	-6.393249
SNORD1C	-0.024216	7.0172881	-0.283556	0.7831711	0.91886	-6.393278
ELAVL1	-0.021535	8.314037	-0.283552	0.7831744	0.91886	-6.39328
VGLL1	0.0263886	6.9802303	0.2833411	0.7833307	0.91886	-6.393344
AGO3	0.0196924	7.3789503	0.2833315	0.7833378	0.91886	-6.393347
MAPK8IP3	-0.031383	7.7172196	-0.283246	0.7834012	0.91886	-6.393373
ASB7	0.0173031	7.1785494	0.2832428	0.7834037	0.91886	-6.393374
P2RX7	-0.041064	7.0552507	-0.28321	0.7834279	0.91886	-6.393384
MSR1	0.0180282	6.8590509	0.2831989	0.7834363	0.91886	-6.393387
IL17A	0.0244002	6.866371	0.2824811	0.7839692	0.91941	-6.393605
PPP1R3D	0.0246263	6.9454886	0.28205	0.7842894	0.91965	-6.393736
FBXO15	0.0192525	6.8139886	0.2820179	0.7843132	0.91965	-6.393745
CREB3	0.0267843	7.2786249	0.2818663	0.7844258	0.91965	-6.393791
PSMB5	0.0230992	11.9324	0.2818608	0.7844298	0.91965	-6.393793
ZNF317	0.0188701	8.7502354	0.2814444	0.7847391	0.91985	-6.393919
PAPLN	-0.01888	6.7314078	-0.281437	0.7847445	0.91985	-6.393921
IFITM1	0.0197786	6.9085926	0.2813831	0.7847847	0.91985	-6.393937
ALG1	-0.023109	7.8390334	-0.281098	0.7849961	0.91994	-6.394023
C9orf142	0.0334983	9.7634208	0.280897	0.7851458	0.91994	-6.394084
CARD6	0.0238234	6.8698786	0.2808003	0.7852176	0.91994	-6.394113
PHKB	-0.020384	7.733782	-0.28078	0.7852324	0.91994	-6.394119
HSPB1P1	0.0256713	7.2176263	0.2807098	0.7852848	0.91994	-6.39414
USP38	0.0539378	9.1513672	0.2806343	0.7853409	0.91994	-6.394163
POLR2J3	-0.021855	8.8969344	-0.280631	0.7853431	0.91994	-6.394164
CELF2	-0.017211	6.7745241	-0.2805	0.7854404	0.91994	-6.394204
CELF6	0.0207141	6.9554783	0.2802763	0.7856069	0.91994	-6.394271
ACPP	-0.020953	6.806941	-0.280266	0.7856149	0.91994	-6.394274
NKD1	0.0250066	6.839812	0.280229	0.7856421	0.91994	-6.394285
UTP20	0.0288267	7.2675976	0.2801444	0.785705	0.91994	-6.394311

B4GALT7	0.0275771	9.3456301	0.2799739	0.7858317	0.91994	-6.394362
H2AFV	0.0257379	7.3513899	0.279967	0.7858368	0.91994	-6.394364
GALNT7	-0.022604	6.8228435	-0.279926	0.7858674	0.91994	-6.394376
LOC1006529	0.0237821	7.0200206	0.279924	0.7858687	0.91994	-6.394377
TRAM2	0.0267385	7.4693625	0.2795541	0.7861436	0.92013	-6.394488
UBE2I	0.017361	8.1864258	0.2795252	0.7861651	0.92013	-6.394497
TTL	0.0284425	9.35984	0.2791428	0.7864493	0.9203	-6.394611
HIP1R	-0.023977	7.7995005	-0.279096	0.7864839	0.9203	-6.394625
SMYD2	0.0220253	8.934176	0.2789126	0.7866205	0.9203	-6.39468
SCARNA4	-0.025024	6.8759955	-0.278906	0.7866252	0.9203	-6.394682
GALK2	-0.020704	7.3770217	-0.278891	0.7866367	0.9203	-6.394687
LINC01838	0.0182822	6.8622939	0.2788206	0.7866888	0.9203	-6.394708
DDAH1	-0.019316	6.8021746	-0.278742	0.786747	0.9203	-6.394731
KCTD21	0.0192977	7.0254374	0.2786037	0.7868501	0.92035	-6.394773
PFN4	-0.022569	7.0997975	-0.278085	0.787236	0.92072	-6.394928
CCNG2	-0.022598	7.5131454	-0.27747	0.787693	0.92117	-6.395111
VIT	-0.017618	6.8081251	-0.277403	0.7877429	0.92117	-6.395131
NEK3	0.0183934	7.5026167	0.2771866	0.7879038	0.92127	-6.395196
CMTM3	-0.019629	7.0403924	-0.276897	0.7881194	0.92127	-6.395282
NCAPG	-0.022914	9.8840164	-0.276873	0.788137	0.92127	-6.395289
CCDC144A	0.0246826	6.8117158	0.2768726	0.7881373	0.92127	-6.395289
MYO5A	-0.026024	7.6940845	-0.27686	0.7881468	0.92127	-6.395293
DLX3	-0.021397	6.9011366	-0.276686	0.7882762	0.92135	-6.395345
AMER1	-0.017313	7.7129367	-0.276562	0.7883685	0.92138	-6.395381
C8orf44	-0.023635	7.056127	-0.276213	0.7886281	0.92148	-6.395485
PDGFA	0.019188	6.7962934	0.275983	0.7887992	0.92148	-6.395553
LFNG	-0.01818	6.8635915	-0.27595	0.7888241	0.92148	-6.395563
GPR150	0.0233249	6.9475458	0.2758338	0.7889102	0.92148	-6.395597
PAX9	0.0197227	6.9066569	0.2758117	0.7889266	0.92148	-6.395604
ZP3	-0.027695	7.3315124	-0.275794	0.7889396	0.92148	-6.395609
TTC30B	-0.019166	6.8317347	-0.275729	0.7889885	0.92148	-6.395629
NCKAP1	-0.018076	6.817358	-0.275626	0.7890645	0.92148	-6.395659
FSTL1	-0.024724	6.762166	-0.275625	0.7890653	0.92148	-6.395659
NOP2	-0.021101	9.3674751	-0.275598	0.7890856	0.92148	-6.395667
C9orf129	-0.019044	6.7833721	-0.275414	0.7892227	0.92157	-6.395722
FUBP1	-0.030944	8.4255179	-0.275235	0.7893554	0.92161	-6.395774
TEX264	-0.020716	8.5272534	-0.275196	0.7893851	0.92161	-6.395786
GIMAP1	-0.019644	6.7120333	-0.275026	0.7895114	0.92169	-6.395836
ANOS1	-0.019928	6.7098875	-0.274877	0.7896224	0.92174	-6.39588
ASNA1	0.0213435	7.4910988	0.2747627	0.7897072	0.92177	-6.395914
HRES1	0.0297432	6.9167089	0.2746212	0.7898126	0.92182	-6.395956
MACC1	-0.021379	6.8876001	-0.273914	0.7903388	0.9223	-6.396164
LIPG	0.021738	6.6679958	0.2738081	0.7904178	0.9223	-6.396195

CAMKV	0.0194575	6.8044985	0.2738081	0.7904179	0.9223	-6.396195
WWC3	0.0262728	7.6273949	0.2736743	0.7905175	0.92234	-6.396235
VCPIP1	0.0330909	8.2025024	0.2734416	0.7906907	0.92234	-6.396303
RIBC1	-0.03288	6.9554103	-0.273437	0.7906942	0.92234	-6.396304
KIAA0586	-0.027463	8.0650193	-0.273411	0.7907135	0.92234	-6.396312
KL	-0.021894	6.8326407	-0.273255	0.7908295	0.92234	-6.396358
RNASEL	-0.018001	6.9631308	-0.273255	0.7908296	0.92234	-6.396358
ZCCHC10	-0.020171	6.8973051	-0.272719	0.791229	0.92265	-6.396515
LIMK2	-0.017902	7.0458962	-0.272622	0.7913009	0.92265	-6.396543
SPDYE3	0.0237566	6.8533202	0.2724636	0.7914191	0.92265	-6.39659
RANBP6	0.0173691	7.6485896	0.2721979	0.791617	0.92265	-6.396668
RASD2	0.0190613	6.8143982	0.2721599	0.7916453	0.92265	-6.396679
UNC5B	-0.024228	6.8262653	-0.272143	0.7916578	0.92265	-6.396684
MAGI1	-0.022053	6.7989305	-0.272136	0.7916629	0.92265	-6.396686
THAP12	-0.032778	10.770015	-0.272063	0.7917172	0.92265	-6.396707
CD34	0.0182325	7.0375999	0.272016	0.7917525	0.92265	-6.396721
VCX2	-0.02202	6.9407774	-0.271966	0.7917895	0.92265	-6.396735
ZFP69B	-0.017536	7.0299023	-0.271958	0.7917953	0.92265	-6.396738
ANKRD13A	0.0251451	11.077717	0.2717703	0.7919355	0.92268	-6.396792
DOLPP1	-0.022224	8.4447701	-0.271764	0.7919404	0.92268	-6.396794
MAP2K5	0.0182764	6.7701292	0.2716356	0.7920358	0.92271	-6.396832
SEC24D	-0.025439	8.0918435	-0.271294	0.7922904	0.92278	-6.396931
ELOC	-0.025645	11.276744	-0.271278	0.7923024	0.92278	-6.396936
MTFP1	0.018737	9.8124666	0.27126	0.7923157	0.92278	-6.396941
KHDC1L	-0.018924	6.9421401	-0.271126	0.7924157	0.92278	-6.39698
TMEM199	-0.024585	8.8758386	-0.271111	0.7924267	0.92278	-6.396985
ZNF597	-0.022726	6.8599024	-0.271055	0.7924687	0.92278	-6.397001
SLCO4A1	0.0225323	7.6297445	0.2706327	0.7927831	0.92295	-6.397124
MXRA7	0.0212254	6.8926892	0.2705724	0.7928281	0.92295	-6.397141
ARHGAP32	0.0196564	6.890452	0.2705268	0.792862	0.92295	-6.397155
LOC1005064	0.0216426	6.9360562	0.2705189	0.7928679	0.92295	-6.397157
AP4S1	0.0188865	6.861146	0.2704284	0.7929354	0.92295	-6.397183
QSER1	0.0218947	7.0822343	0.2701438	0.7931475	0.92306	-6.397266
TMA7	0.0240807	12.418663	0.2701328	0.7931557	0.92306	-6.397269
USP41	0.0189154	7.2102133	0.2700279	0.7932339	0.92308	-6.3973
MFSD9	-0.023515	6.8700198	-0.269682	0.7934914	0.9232	-6.3974
POTEG	0.0193769	7.1315735	0.2695114	0.7936189	0.9232	-6.397449
MVB12A	0.0309707	9.5655435	0.2693699	0.7937244	0.9232	-6.39749
MANBA	-0.023123	8.8515659	-0.269262	0.7938046	0.9232	-6.397521
KLF5	-0.0181	6.7895228	-0.269227	0.7938311	0.9232	-6.397532
PYGM	0.0188623	6.856017	0.269132	0.7939018	0.9232	-6.397559
TXNIP	-0.026818	9.4949925	-0.269124	0.7939079	0.9232	-6.397561
STX6	-0.024198	8.8439616	-0.269064	0.7939527	0.9232	-6.397579

FUCA2	-0.019592	6.8246783	-0.268869	0.7940977	0.9232	-6.397635
ZNF713	-0.023215	6.9618969	-0.268697	0.794226	0.9232	-6.397685
SHANK3	-0.018216	6.8417372	-0.268664	0.7942507	0.9232	-6.397694
RPS19BP1	-0.017198	9.7776481	-0.268644	0.7942657	0.9232	-6.3977
ZNF230	-0.026797	6.8391534	-0.268613	0.7942887	0.9232	-6.397709
OR2W3	-0.020353	6.9698567	-0.268584	0.7943104	0.9232	-6.397717
VN1R2	-0.021369	7.1531786	-0.268425	0.7944288	0.9232	-6.397763
VSX2	-0.02423	7.0519593	-0.268414	0.7944368	0.9232	-6.397766
KCNIP4-IT1	-0.020976	6.862292	-0.268298	0.7945237	0.9232	-6.3978
GTF3A	0.0297048	12.693041	0.2682476	0.7945612	0.9232	-6.397814
UBE2V1	0.0183659	7.2273869	0.2682082	0.7945906	0.9232	-6.397826
IFI6	0.0239096	8.1199117	0.2681919	0.7946028	0.9232	-6.39783
DUSP9	0.0188704	6.7851365	0.2679039	0.7948176	0.92327	-6.397913
CRB3	0.0219644	7.0648921	0.2677973	0.7948971	0.92327	-6.397944
CHD6	-0.024338	7.5322441	-0.267778	0.7949112	0.92327	-6.397949
INTS6L	-0.022832	7.2475295	-0.267773	0.7949155	0.92327	-6.397951
APPL2	-0.022502	7.7690438	-0.267609	0.7950372	0.92328	-6.397998
ANKRD11	-0.018388	9.5170971	-0.267585	0.7950555	0.92328	-6.398005
DHX9	0.0213556	8.4369496	0.267403	0.7951911	0.92328	-6.398057
CASD1	0.0353913	7.5111892	0.2673515	0.7952296	0.92328	-6.398072
MXI1	0.0168065	7.1977033	0.2673372	0.7952402	0.92328	-6.398076
TMEM65	-0.025067	6.924645	-0.267215	0.7953313	0.92328	-6.398111
GSTO2	-0.021664	7.1168234	-0.267123	0.7954001	0.92328	-6.398138
SFT2D2	-0.022276	7.3126362	-0.267056	0.79545	0.92328	-6.398157
ALKAL1	0.0170417	6.8488129	0.2669979	0.7954934	0.92328	-6.398174
ZFYVE9	-0.018331	6.783448	-0.266899	0.7955672	0.92329	-6.398202
IAH1	0.0212448	6.9564493	0.2667475	0.7956801	0.92334	-6.398245
AOC4P	0.0488272	10.236675	0.2666691	0.7957387	0.92334	-6.398268
CTSG	-0.017137	6.7922476	-0.266553	0.7958254	0.92337	-6.398301
OR2AG2	-0.018758	6.9047861	-0.26634	0.7959842	0.9234	-6.398362
PLD2	0.0244973	7.1906454	0.2663129	0.7960045	0.9234	-6.39837
TTC25	-0.017633	6.8042503	-0.266268	0.7960377	0.9234	-6.398383
CYP4V2	0.0283435	8.1952902	0.2659332	0.7962878	0.92357	-6.398479
RNASE1	-0.017633	6.8442054	-0.265826	0.796368	0.92357	-6.398509
ARMC2	-0.016674	6.9132325	-0.26581	0.7963797	0.92357	-6.398514
PADI2	-0.026642	6.95406	-0.265349	0.7967237	0.92382	-6.398645
EFCAB3	0.0183214	6.8864898	0.2653371	0.7967326	0.92382	-6.398649
PSENEN	0.0274521	7.8498037	0.2651842	0.7968468	0.92382	-6.398692
ALS2	-0.022212	8.3142808	-0.265122	0.7968935	0.92382	-6.39871
RTP4	-0.025882	6.9356936	-0.265101	0.7969087	0.92382	-6.398716
PFDN1	0.0281985	9.9131899	0.264982	0.7969977	0.92385	-6.39875
PRAMEF5	0.0251072	6.9559427	0.2647427	0.7971764	0.92394	-6.398818
ZIM3	-0.019011	6.9548924	-0.264517	0.797345	0.92394	-6.398882

SNAPC1	0.0249743	7.7372015	0.2644901	0.797365	0.92394	-6.39889
TARP	0.0197958	6.8838205	0.264475	0.7973762	0.92394	-6.398894
MMAA	-0.025829	7.6028865	-0.264385	0.7974436	0.92394	-6.39892
WDR33	0.0160629	7.9295524	0.2643694	0.7974551	0.92394	-6.398924
ACP2	-0.024494	7.2585804	-0.264076	0.7976742	0.92404	-6.399008
OR2W5	0.0223136	7.0242942	0.2638445	0.7978469	0.92404	-6.399073
C2orf69	0.0335322	9.0065723	0.2636161	0.7980175	0.92404	-6.399138
PTTG1	-0.018445	11.30404	-0.263612	0.7980207	0.92404	-6.399139
FZD1	-0.017121	7.0116196	-0.263562	0.7980576	0.92404	-6.399153
NOD2	0.0266326	6.7328817	0.2635281	0.7980833	0.92404	-6.399163
GK	-0.019012	7.8423744	-0.263484	0.7981162	0.92404	-6.399175
BMI1	-0.028725	9.2708164	-0.263483	0.7981171	0.92404	-6.399176
C1orf61	-0.017789	7.9237993	-0.263422	0.7981626	0.92404	-6.399193
SH3BGRL	-0.02152	8.6391381	-0.263399	0.7981797	0.92404	-6.399199
SIGLEC10	0.0287944	7.9621506	0.2629958	0.7984808	0.92414	-6.399313
HS6ST2-AS1	0.019012	6.9805502	0.2628209	0.7986114	0.92414	-6.399363
SLC43A2	0.0318249	7.7887023	0.2628079	0.7986211	0.92414	-6.399367
OAS3	-0.016453	6.8106703	-0.262802	0.7986253	0.92414	-6.399368
ZNF599	0.0188874	6.8479492	0.2627169	0.7986891	0.92414	-6.399392
SLC39A14	0.0205982	8.3597737	0.2627102	0.7986941	0.92414	-6.399394
UTP4	-0.028109	11.198961	-0.262657	0.7987338	0.92414	-6.399409
KLHL20	0.0250591	8.1050414	0.2625248	0.7988326	0.92414	-6.399446
ZFP90	0.020185	8.6873437	0.2625207	0.7988357	0.92414	-6.399448
FAM131A	-0.019112	6.8314182	-0.262233	0.7990504	0.92432	-6.399529
MAP3K10	0.0265413	7.3381076	0.2621366	0.7991226	0.92433	-6.399556
TYMP	-0.017543	7.5695378	-0.261922	0.7992833	0.92444	-6.399616
TMED7	-0.042522	9.2652417	-0.261802	0.7993729	0.92446	-6.39965
ZSCAN18	-0.020615	7.529661	-0.261727	0.7994286	0.92446	-6.399671
ELOA	0.024626	9.5774611	0.2610399	0.7999421	0.92498	-6.399864
AMY2B	0.021743	6.788217	0.2607571	0.8001534	0.92516	-6.399944
BIRC5	-0.020762	8.3023859	-0.260669	0.8002194	0.92516	-6.399968
ZNF490	-0.020654	7.4104799	-0.260585	0.8002824	0.92516	-6.399992
MAGEF1	-0.018768	7.809703	-0.260344	0.8004621	0.92529	-6.400059
MCHR1	0.0175995	6.8611559	0.260224	0.8005519	0.92532	-6.400093
IGLL1	-0.017447	8.827753	-0.260125	0.800626	0.92533	-6.400121
RCHY1	-0.023591	7.8774558	-0.260049	0.8006824	0.92533	-6.400142
AIFM1	-0.018653	8.6453759	-0.259846	0.8008345	0.92543	-6.400199
ANKAR	-0.019713	6.7569899	-0.259738	0.8009151	0.92544	-6.400229
PRKX	0.0195924	7.6282299	0.259642	0.8009869	0.92544	-6.400255
DDX42	0.0156916	8.3222998	0.2595776	0.8010351	0.92544	-6.400273
YPEL3	0.0210028	7.5078065	0.2593596	0.8011981	0.92556	-6.400334
NIM1K	0.0201296	6.7919048	0.2589339	0.8015164	0.92579	-6.400453
GPR89B	-0.030417	8.4736738	-0.258915	0.8015303	0.92579	-6.400458

DCAF4	-0.025971	8.787433	-0.258667	0.8017163	0.92586	-6.400527
PRR34	-0.022752	6.8350338	-0.258632	0.8017422	0.92586	-6.400537
HS2ST1	0.036797	7.645144	0.2585869	0.8017759	0.92586	-6.400549
SPAG4	-0.022814	6.9871159	-0.258457	0.8018731	0.9259	-6.400585
WDR53	-0.017487	7.9592698	-0.258226	0.8020459	0.92599	-6.40065
MATN2	0.0162504	6.8014294	0.258182	0.8020787	0.92599	-6.400662
TPI1P2	-0.029106	10.965458	-0.258094	0.8021448	0.92599	-6.400686
NMI	-0.030419	8.0677353	-0.257877	0.8023069	0.92607	-6.400746
MIR1275	-0.020892	6.887395	-0.257807	0.8023595	0.92607	-6.400766
ABCA1	-0.026253	8.2018302	-0.257745	0.8024057	0.92607	-6.400783
WNK3	0.0200888	7.0103531	0.2574181	0.8026501	0.92628	-6.400874
RAB22A	0.0292596	9.0727706	0.2571727	0.8028337	0.92642	-6.400941
TARSL2	-0.025221	7.4409622	-0.256806	0.8031079	0.92666	-6.401043
MYO1E	-0.021356	6.9652782	-0.2564	0.8034116	0.92688	-6.401155
MAGEA11	0.0171223	6.9512653	0.2563407	0.8034562	0.92688	-6.401171
IFI16	0.0282547	10.416881	0.2562474	0.8035261	0.92688	-6.401197
ZNF225	-0.019178	6.8945467	-0.256214	0.803551	0.92688	-6.401206
TREML1	-0.019714	7.0378786	-0.256057	0.8036687	0.92692	-6.401249
COL4A2	0.0171414	6.9484578	0.2558976	0.8037879	0.92692	-6.401293
SNORA58	-0.023095	7.119269	-0.255804	0.8038576	0.92692	-6.401319
KAZALD1	0.0190865	6.9246129	0.2557923	0.8038667	0.92692	-6.401322
EMC10	0.018399	7.1051686	0.2556795	0.8039511	0.92692	-6.401353
CYP2A7	0.0160734	6.8426307	0.2556562	0.8039685	0.92692	-6.40136
KCNK3	-0.027661	7.1457573	-0.255495	0.8040894	0.92692	-6.401404
MIR572	-0.018375	6.9313791	-0.255423	0.8041432	0.92692	-6.401424
METTL4	-0.019467	7.5890246	-0.255403	0.8041584	0.92692	-6.401429
DPYSL5	0.025011	6.9860106	0.2552281	0.804289	0.927	-6.401477
RAD21	-0.021605	8.794358	-0.254841	0.8045786	0.92717	-6.401583
NPIPB7	0.022471	6.8720943	0.254809	0.8046027	0.92717	-6.401592
RPL23AP42	0.0312069	13.636392	0.254779	0.8046252	0.92717	-6.4016
PARP15	-0.017701	6.8965447	-0.254656	0.8047175	0.92719	-6.401634
AGR3	-0.019799	6.9570496	-0.254581	0.8047733	0.92719	-6.401654
LINC02210	-0.024562	7.310091	-0.254336	0.8049567	0.92723	-6.401721
ASAP2	0.0160202	6.8135224	0.2543334	0.8049588	0.92723	-6.401722
METAP1	-0.025479	11.034229	-0.25428	0.8049989	0.92723	-6.401737
ANAPC5	0.0210378	11.377866	0.2538441	0.8053252	0.92741	-6.401856
BUD23	0.023789	9.3230313	0.253829	0.8053365	0.92741	-6.40186
ZNF416	0.0182687	6.7071043	0.2538219	0.8053418	0.92741	-6.401862
CHMP4A	-0.023268	9.7140973	-0.253542	0.8055518	0.92758	-6.401939
PMS2	-0.017546	8.1074346	-0.253118	0.8058689	0.92781	-6.402054
KRTCAP2	0.0230622	11.250862	0.2529343	0.8060066	0.92781	-6.402104
NLRP4	-0.022567	7.8766953	-0.252914	0.8060218	0.92781	-6.402109
ELF1	-0.020586	10.614573	-0.252828	0.8060866	0.92781	-6.402133

PRSS57	-0.021443	6.8465613	-0.252815	0.8060957	0.92781	-6.402136
CA11	0.0211943	7.4097969	0.2527577	0.8061389	0.92781	-6.402152
CHST3	-0.03004	6.9454682	-0.252639	0.8062279	0.92784	-6.402184
ETHE1	0.0156649	6.8949771	0.2521467	0.8065966	0.92815	-6.402318
CDY2B	0.0243541	6.8963798	0.2520429	0.8066744	0.92815	-6.402346
ALG8	0.0170737	8.6827939	0.2520328	0.806682	0.92815	-6.402349
ABCC3	-0.017971	6.9225159	-0.251789	0.8068647	0.92828	-6.402415
ZNF529	0.0177912	7.4786101	0.2515131	0.8070713	0.92839	-6.402489
HMGN2P46	-0.021935	7.8429484	-0.251494	0.8070858	0.92839	-6.402495
C2orf50	0.0284597	6.8815092	0.2512921	0.8072369	0.92849	-6.402549
TNFRSF6B	0.0162519	6.9664532	0.2511288	0.8073593	0.92856	-6.402593
CASP2	0.0168358	8.9063257	0.2509579	0.8074874	0.92863	-6.402639
HIP1	0.0217734	6.8705636	0.2506682	0.8077045	0.92881	-6.402718
MANBAL	-0.030477	9.4132574	-0.250494	0.8078353	0.92889	-6.402765
SPEM1	-0.023639	6.8753439	-0.250233	0.8080306	0.92898	-6.402835
CWF19L1	-0.025889	10.451217	-0.250146	0.8080957	0.92898	-6.402858
KDSR	0.0157782	8.4557709	0.2501318	0.8081066	0.92898	-6.402862
VN1R5	0.0161476	6.9684391	0.2498767	0.8082978	0.92909	-6.402931
C14orf79	-0.019372	7.137564	-0.249833	0.8083309	0.92909	-6.402942
GLIPR2	0.0168778	6.803331	0.2497274	0.8084098	0.92911	-6.402971
ZNF701	-0.022705	7.1874483	-0.249615	0.8084938	0.92913	-6.403001
KCNK5	0.0189022	6.7781035	0.2493051	0.8087264	0.92926	-6.403084
SOX3	0.0160375	6.756327	0.249231	0.808782	0.92926	-6.403104
NPY5R	-0.029857	7.2009656	-0.249206	0.8088006	0.92926	-6.403111
FAM177A1	-0.025396	9.5244057	-0.248906	0.8090258	0.92945	-6.403191
LCN2	0.0174879	6.791032	0.2485696	0.8092779	0.92967	-6.403281
PXMP4	-0.016855	6.8701656	-0.248435	0.809379	0.92971	-6.403317
ZFAND5	-0.034496	10.769305	-0.24835	0.8094428	0.92971	-6.40334
PIMREG	0.0214088	6.7408588	0.248044	0.8096721	0.9299	-6.403421
ULBP2	-0.016959	7.431952	-0.247896	0.8097828	0.92995	-6.403461
C7orf65	-0.023261	7.0197693	-0.247691	0.8099373	0.92997	-6.403516
CAPG	-0.017662	6.9732906	-0.247646	0.8099709	0.92997	-6.403528
PRRC1	-0.020568	9.2580091	-0.247627	0.8099848	0.92997	-6.403533
ADAMTS13	0.0185913	6.9109555	0.2474555	0.8101136	0.93004	-6.403578
AGFG1	0.0179356	7.6662993	0.2473152	0.8102188	0.93008	-6.403616
NADK	-0.017748	8.2097949	-0.247237	0.8102778	0.93008	-6.403637
SERPINI1	-0.017362	6.929977	-0.247005	0.8104519	0.93014	-6.403698
MIPEP	0.0263768	8.7347901	0.2469972	0.8104574	0.93014	-6.4037
ZC3H12B	0.0183145	6.9340933	0.2467511	0.810642	0.93028	-6.403766
GRIN2B	0.0161667	6.9694711	0.2465033	0.810828	0.93042	-6.403831
MAGED4B	0.0230549	7.3765844	0.2463582	0.8109369	0.93043	-6.40387
WDR77	-0.017721	9.8963416	-0.24632	0.8109657	0.93043	-6.40388
CACFD1	-0.01714	7.2504153	-0.24614	0.8111009	0.93045	-6.403928

EIF5A2	0.015436	6.8026647	0.2460724	0.8111513	0.93045	-6.403945
FRY	-0.01681	6.7967159	-0.246051	0.8111671	0.93045	-6.403951
LOXL4	-0.019389	6.8320097	-0.245955	0.8112397	0.93046	-6.403977
DBF4B	0.0151409	6.751065	0.2456907	0.8114378	0.93046	-6.404046
RBM47	0.0159648	6.738069	0.2456733	0.8114509	0.93046	-6.404051
MYEF2	-0.029512	7.0131298	-0.245492	0.8115873	0.93046	-6.404099
RASSF9	0.0185032	6.8529459	0.2454486	0.8116195	0.93046	-6.40411
MKLN1	0.0499809	9.1779709	0.2454305	0.8116331	0.93046	-6.404115
FTH1	0.0340185	10.217482	0.2451482	0.811845	0.93046	-6.40419
SLTM	-0.026131	8.3787568	-0.245147	0.8118457	0.93046	-6.40419
ASH1L	0.0236055	7.0907555	0.2450976	0.811883	0.93046	-6.404203
CTBP1-AS2	-0.018846	6.9161226	-0.245016	0.8119444	0.93046	-6.404225
DDX39A	-0.020173	9.7124263	-0.244996	0.8119591	0.93046	-6.40423
FZR1	-0.017931	7.0484409	-0.244866	0.8120565	0.93046	-6.404264
OGFOD2	0.022146	6.9612634	0.2448499	0.812069	0.93046	-6.404268
HPS4	0.0151238	7.107496	0.2447648	0.8121328	0.93046	-6.404291
EML1	0.0154624	6.7913198	0.2446761	0.8121994	0.93046	-6.404314
GPR3	-0.017235	6.867948	-0.24467	0.8122042	0.93046	-6.404316
PPARG	-0.015168	6.7242813	-0.24456	0.8122867	0.93049	-6.404345
NEDD9	-0.020314	7.7938673	-0.244309	0.8124752	0.93049	-6.404411
DAGLA	0.0191998	6.8357428	0.2443027	0.8124798	0.93049	-6.404412
TM6SF2	-0.025041	7.0352316	-0.244297	0.8124844	0.93049	-6.404414
XYLB	0.0164195	6.8035727	0.2440455	0.8126729	0.93062	-6.40448
TOR1A	0.0249249	9.002591	0.2438994	0.8127826	0.93062	-6.404518
ZNF207	0.0189924	11.195607	0.2438957	0.8127854	0.93062	-6.404519
NCAM1	-0.015461	6.8273962	-0.243645	0.8129737	0.93064	-6.404585
SKA2	-0.019595	8.7328809	-0.243526	0.8130631	0.93064	-6.404616
THAP2	-0.016886	6.8712562	-0.243523	0.8130656	0.93064	-6.404617
GNAT1	-0.015679	6.98387	-0.243476	0.8131002	0.93064	-6.404629
CYTH2	-0.018673	7.6034736	-0.243442	0.8131259	0.93064	-6.404638
HDHD5	-0.021699	9.7725484	-0.243212	0.8132991	0.93076	-6.404698
STC1	-0.015641	6.8026647	-0.24306	0.813413	0.93076	-6.404738
BPTF	0.0174371	6.9464077	0.2430466	0.813423	0.93076	-6.404742
GAGE12E	-0.023804	6.9785455	-0.242893	0.8135384	0.93076	-6.404782
TONSL	0.0175898	7.1690894	0.2428807	0.8135476	0.93076	-6.404785
CD276	0.014837	6.787534	0.2427391	0.813654	0.93081	-6.404822
SERINC1	0.0207711	7.7608659	0.2424368	0.8138811	0.93092	-6.404901
LOC1001285	0.0167704	6.9353594	0.242366	0.8139342	0.93092	-6.404919
PRTFDC1	-0.017963	6.856348	-0.242271	0.8140057	0.93092	-6.404944
BOLA2	0.0172787	10.287188	0.2421791	0.8140746	0.93092	-6.404968
ZNF57	0.0167258	7.1311353	0.2420974	0.8141361	0.93092	-6.404989
DHRS4L1	0.0172903	7.0057299	0.2418246	0.8143409	0.93092	-6.40506
TAGLN	0.0177902	7.4190695	0.2417965	0.8143621	0.93092	-6.405068

CPM	0.0157182	6.9664883	0.2416348	0.8144836	0.93092	-6.40511
EVI5	0.0367392	8.7622443	0.2416173	0.8144968	0.93092	-6.405114
IFI44	-0.018021	7.0045227	-0.241604	0.8145064	0.93092	-6.405118
ATP10A	0.0150436	7.445684	0.2415406	0.8145544	0.93092	-6.405134
VRTN	0.0202211	6.9253849	0.2415062	0.8145802	0.93092	-6.405143
PSD3	-0.016351	6.8797011	-0.241444	0.8146268	0.93092	-6.405159
KIRREL2	0.0153119	6.838869	0.2413736	0.8146798	0.93092	-6.405178
SUPT7L	-0.024998	6.9998256	-0.241342	0.8147034	0.93092	-6.405186
TTC37	-0.036322	9.834082	-0.241182	0.8148242	0.93098	-6.405228
C1orf56	0.0196672	7.1649227	0.2410637	0.8149127	0.93101	-6.405258
TSPY26P	0.0190535	6.8061221	0.2405037	0.8153336	0.93134	-6.405403
AMOTL2	-0.021167	7.206574	-0.24043	0.8153893	0.93134	-6.405422
LOC1001305	0.0194561	6.8414251	0.2404215	0.8153953	0.93134	-6.405424
HAUS7	-0.015963	8.5960189	-0.240136	0.81561	0.93151	-6.405498
KLF16	-0.021723	6.8654538	-0.239849	0.8158254	0.93156	-6.405572
PAX3	0.023021	6.9308329	0.2398339	0.815837	0.93156	-6.405576
SPATA20	0.0175344	6.702669	0.2398296	0.8158402	0.93156	-6.405577
ZNF268	0.0149087	6.8853544	0.2397202	0.8159225	0.93158	-6.405606
SOBP	-0.016058	7.9811251	-0.239518	0.8160749	0.93165	-6.405658
YWHAH	0.0246317	12.107533	0.2394189	0.816149	0.93165	-6.405683
LOC641367	-0.021353	7.0572773	-0.239389	0.8161718	0.93165	-6.405691
GPR68	-0.014504	6.7790485	-0.239038	0.8164356	0.93187	-6.405781
IWS1	-0.016529	9.1097048	-0.238735	0.8166635	0.93206	-6.405859
CALR	0.0288646	10.871413	0.2385457	0.8168056	0.93211	-6.405908
TIMM9	-0.025466	9.6599719	-0.238496	0.8168432	0.93211	-6.405921
SPG7	-0.017771	7.9884909	-0.238398	0.8169167	0.93211	-6.405946
RADIL	-0.01448	6.7794299	-0.238312	0.816981	0.93211	-6.405968
LINC02076	-0.016408	6.8412432	-0.238159	0.8170964	0.93211	-6.406007
ZNF134	-0.016505	6.7849001	-0.238108	0.8171344	0.93211	-6.40602
FBLN1	-0.014826	6.8288669	-0.238051	0.8171773	0.93211	-6.406035
EBNA1BP2	0.0194694	12.013304	0.2379986	0.817217	0.93211	-6.406048
HBG2	-0.015588	6.9369384	-0.23787	0.817314	0.93215	-6.406081
CLEC18C	-0.029494	7.0450142	-0.237461	0.8176211	0.93243	-6.406186
SUPV3L1	-0.018968	9.4467084	-0.236969	0.8179912	0.93277	-6.406311
MTPN	-0.020557	10.722773	-0.236841	0.8180877	0.93281	-6.406344
RECK	0.0155768	6.8775109	0.2366363	0.8182417	0.9329	-6.406396
CDKN1A	0.0308998	11.208036	0.2365379	0.8183158	0.9329	-6.406421
OR4N2	0.0154639	6.8707521	0.2364836	0.8183566	0.9329	-6.406435
POM121	0.0231928	7.0418899	0.2358533	0.8188309	0.93336	-6.406595
DNASE1L1	-0.015843	7.2507316	-0.235779	0.818887	0.93336	-6.406614
EHD2	-0.019244	6.9174267	-0.235659	0.8189773	0.93337	-6.406645
TMEM33	0.0265175	8.6557227	0.2355948	0.8190254	0.93337	-6.406661
MIR1243	0.0145804	6.8291992	0.2354042	0.8191689	0.93346	-6.406709

RAPGEF2	0.0281526	8.115523	0.2351783	0.8193389	0.93355	-6.406766
EEF1A1	-0.016778	13.868304	-0.235103	0.8193956	0.93355	-6.406786
EEA1	-0.01713	6.8789249	-0.235045	0.8194395	0.93355	-6.4068
ATP7A	-0.015439	6.9069411	-0.234912	0.819539	0.93359	-6.406834
RHBDD1	0.017115	7.6481364	0.2348042	0.8196204	0.93361	-6.406861
FOXRED1	0.0197284	9.9391615	0.23446	0.8198795	0.93377	-6.406948
ICAM4	-0.017243	6.8966378	-0.23442	0.8199096	0.93377	-6.406958
ZNF622	0.0212753	9.8598273	0.2341158	0.8201386	0.93377	-6.407035
HSPA1L	-0.019425	6.9069224	-0.234114	0.8201397	0.93377	-6.407035
FAM198B	0.0210776	6.8630158	0.2340171	0.8202129	0.93377	-6.40706
EZR-AS1	0.0209379	7.0276669	0.2339788	0.8202418	0.93377	-6.407069
IL1RN	-0.016183	6.7723955	-0.23387	0.8203237	0.93377	-6.407097
DDX54	0.0281448	8.5375944	0.2338607	0.8203307	0.93377	-6.407099
MIR1258	-0.015721	6.9294287	-0.233854	0.8203356	0.93377	-6.407101
C1orf21	-0.017868	7.363664	-0.233473	0.8206229	0.93402	-6.407197
HIST1H2AC	-0.01852	7.3056903	-0.233262	0.8207816	0.9341	-6.40725
USP34	0.0321192	8.321812	0.2332154	0.8208166	0.9341	-6.407261
ZEB2	0.0153711	7.2340551	0.2330789	0.8209193	0.93414	-6.407296
HSPA4L	-0.019991	6.8884658	-0.232941	0.8210234	0.93419	-6.40733
ATP6V1D	0.0251328	9.6391659	0.2327612	0.8211586	0.93427	-6.407375
CNRIP1	-0.014453	6.8287175	-0.232592	0.8212859	0.93427	-6.407418
CA2	0.0155058	6.7864468	0.2325855	0.8212909	0.93427	-6.407419
CLDN11	-0.016665	6.8495897	-0.232353	0.8214663	0.93435	-6.407478
MRPL42P5	0.01783	6.8959227	0.232322	0.8214894	0.93435	-6.407485
WDR70	-0.022331	8.8757713	-0.232087	0.8216667	0.93439	-6.407544
TMEM27	0.0163051	6.8072117	0.2320497	0.8216945	0.93439	-6.407553
NUAK1	0.0154114	6.9817883	0.2320124	0.8217226	0.93439	-6.407563
RUNX2	-0.014561	6.8939024	-0.231941	0.8217762	0.93439	-6.40758
ARMC12	-0.017158	6.8670708	-0.231729	0.8219358	0.9344	-6.407633
HYDIN	0.0146949	6.9648317	0.2316274	0.8220126	0.9344	-6.407659
CCDC137	-0.02297	7.3088	-0.231578	0.8220495	0.9344	-6.407671
HYALP1	0.0173749	7.2791869	0.2315511	0.8220701	0.9344	-6.407678
SLC22A16	0.0155037	6.7572097	0.2314868	0.8221186	0.9344	-6.407694
SGIP1	-0.014097	6.7271372	-0.231421	0.8221683	0.9344	-6.40771
COX5B	-0.017035	13.126342	-0.231326	0.8222395	0.93441	-6.407734
EPPIN	-0.016332	6.8988664	-0.231011	0.8224773	0.9346	-6.407812
SLC16A7	-0.018556	6.9603612	-0.230797	0.8226383	0.93464	-6.407865
ENC1	0.0169519	6.9367885	0.2307918	0.8226422	0.93464	-6.407867
PUS3	-0.019238	8.5726496	-0.230616	0.8227746	0.93464	-6.40791
ECHDC2	0.0150125	6.723466	0.2306004	0.8227864	0.93464	-6.407914
KIR3DX1	-0.019248	6.8396248	-0.230474	0.8228815	0.93464	-6.407946
DEFB116	0.0209622	6.805856	0.2304539	0.8228968	0.93464	-6.407951
DPY19L2P2	-0.014035	6.8559866	-0.230046	0.8232042	0.93486	-6.408052

CROCCP3	-0.015083	6.9041037	-0.230031	0.8232156	0.93486	-6.408056
SSTR3	-0.021159	6.8885791	-0.229786	0.8234005	0.935	-6.408116
HLA-DQA2	0.0199416	7.1574303	0.2295971	0.8235425	0.93506	-6.408163
SNURF	0.0252662	8.6437644	0.2295383	0.8235868	0.93506	-6.408177
PRDX2	0.0337665	10.103199	0.2292707	0.8237885	0.93522	-6.408244
MICALL1	0.0253574	7.2946941	0.2290599	0.8239474	0.93533	-6.408296
SEL1L2	0.0148495	6.749406	0.2288195	0.8241286	0.9354	-6.408355
KLF10	0.0182129	7.374842	0.2287949	0.8241472	0.9354	-6.408361
ADAMTSL5	0.0181224	6.9448781	0.2287265	0.8241987	0.9354	-6.408378
NLRP3	0.0148911	6.8324426	0.2285127	0.8243599	0.93541	-6.40843
CDCA4	0.0158323	9.0893152	0.228475	0.8243884	0.93541	-6.40844
ARHGEF6	-0.022375	9.6790767	-0.228451	0.8244063	0.93541	-6.408445
SNORA11C	-0.018701	7.0225411	-0.22835	0.8244822	0.93543	-6.40847
PPP2CB	-0.01583	7.6531124	-0.228242	0.824564	0.93544	-6.408497
RNF13	-0.014974	7.572042	-0.228162	0.8246247	0.93544	-6.408517
BST2	-0.031695	10.797449	-0.227721	0.824957	0.93563	-6.408625
CDCA3	0.0229528	9.4516326	0.2276736	0.8249926	0.93563	-6.408636
RPS11	-0.024711	14.421364	-0.227613	0.8250383	0.93563	-6.408651
TMEM94	0.0217342	7.251274	0.227597	0.8250504	0.93563	-6.408655
EXOC7	-0.016417	8.216414	-0.227073	0.8254453	0.93601	-6.408783
PLK4	-0.024772	8.8334011	-0.22665	0.8257649	0.9363	-6.408887
ANAPC13	-0.022728	11.457102	-0.226556	0.8258356	0.93631	-6.40891
NDUFB5	0.0231838	11.75087	0.2261748	0.826123	0.93648	-6.409003
WT1	-0.013868	6.8143507	-0.226134	0.8261542	0.93648	-6.409013
RMND5B	0.0189783	7.9370889	0.2260949	0.8261833	0.93648	-6.409022
DSCAM	0.0150228	7.0882315	0.22595	0.8262926	0.93653	-6.409057
CLCN6	-0.01655	8.0521488	-0.225605	0.8265531	0.93676	-6.409141
TPTE2	0.0156732	6.8108305	0.22498	0.8270245	0.93722	-6.409293
HOXC13	0.0263435	7.283105	0.2247018	0.8272344	0.93725	-6.40936
CHST1	0.0165326	7.0570727	0.2246972	0.8272379	0.93725	-6.409362
TBC1D22B	-0.016869	7.6825049	-0.224683	0.827249	0.93725	-6.409365
OCRL	0.0202344	6.9600442	0.2243214	0.8275215	0.93741	-6.409452
ARIH2	0.0163273	10.431859	0.2242875	0.8275471	0.93741	-6.409461
GGT7	-0.018605	6.7534167	-0.224245	0.8275791	0.93741	-6.409471
KRTAP12-2	0.0191444	7.0271074	0.224143	0.8276562	0.93742	-6.409495
BCS1L	-0.019883	9.811273	-0.223976	0.8277824	0.93749	-6.409536
LINC00173	0.0163276	7.1561124	0.2238512	0.8278764	0.9375	-6.409566
MRI1	0.0159277	8.6537573	0.2237997	0.8279152	0.9375	-6.409578
MRAS	-0.013604	6.8829991	-0.222944	0.8285609	0.93808	-6.409784
DUX4L1	-0.015595	6.9599737	-0.222867	0.8286197	0.93808	-6.409803
KIF18B	0.0146868	6.8269009	0.2228611	0.8286238	0.93808	-6.409804
MTFMT	-0.017406	9.4396476	-0.222606	0.8288163	0.93809	-6.409865
LSM7	0.0233222	11.534606	0.2225575	0.8288531	0.93809	-6.409877

ZFY	-0.01681	7.2254166	-0.222491	0.828903	0.93809	-6.409893
PTGIR	0.0212291	6.8215877	0.2223339	0.8290218	0.93809	-6.40993
FGD6	-0.017146	7.2267881	-0.222267	0.8290722	0.93809	-6.409946
POLA1	0.0139466	8.0316063	0.222256	0.8290807	0.93809	-6.409949
CCDC120	-0.017698	7.0211919	-0.222252	0.8290841	0.93809	-6.40995
ZNF84	-0.01513	6.9439391	-0.222139	0.8291689	0.93812	-6.409977
DAPK1	0.0168134	6.9601175	0.2219465	0.8293144	0.93821	-6.410023
DDX47	0.0166175	11.066147	0.2218446	0.8293913	0.93822	-6.410048
LINC00273	-0.020295	6.9472953	-0.221696	0.8295038	0.93828	-6.410083
LOC647070	0.0160775	7.120373	0.2216101	0.8295684	0.93828	-6.410104
KANK1	-0.021919	7.8027992	-0.221254	0.8298378	0.93851	-6.410189
MBNL3	0.0170422	7.2178118	0.2211092	0.8299468	0.93852	-6.410223
TRIM73	0.0195645	7.2499959	0.2208421	0.8301485	0.93852	-6.410287
RPE	0.0259159	9.4545184	0.220649	0.8302943	0.93852	-6.410332
TMEM86A	0.01653	6.9302339	0.2206177	0.830318	0.93852	-6.41034
MYOM1	-0.014946	6.776582	-0.220611	0.830323	0.93852	-6.410342
IDH2	0.0218717	8.2417196	0.2205968	0.8303338	0.93852	-6.410345
ZBTB24	0.0246727	8.8409769	0.2205097	0.8303996	0.93852	-6.410366
HSD11B1	0.014163	6.7696512	0.2204884	0.8304157	0.93852	-6.410371
TCEAL8	-0.01434	6.7773205	-0.22036	0.8305125	0.93852	-6.410401
MYRIP	-0.014369	6.7428145	-0.220342	0.8305264	0.93852	-6.410405
ZNF841	-0.015397	6.7278676	-0.220234	0.8306078	0.93852	-6.410431
GSTCD	0.0139531	6.9751825	0.2202225	0.8306166	0.93852	-6.410434
ATP5A1	-0.015548	13.672996	-0.220033	0.8307595	0.93861	-6.410479
MIR548G	0.0188118	6.879292	0.2199235	0.8308424	0.93861	-6.410505
ADAP2	-0.014837	6.8863716	-0.219776	0.8309542	0.93861	-6.41054
PITX1	0.0192598	9.7399062	0.2197755	0.8309543	0.93861	-6.41054
STYXL1	0.0180351	8.4378495	0.2193193	0.831299	0.93888	-6.410648
ZNF236	-0.018127	6.992281	-0.219293	0.8313187	0.93888	-6.410654
ASB6	0.021589	7.2914092	0.2191663	0.8314146	0.9389	-6.410684
STX18	-0.021045	7.2067728	-0.21909	0.8314721	0.9389	-6.410702
ARID2	0.0196785	7.6504074	0.2186024	0.8318407	0.93914	-6.410817
NUP58	0.0183383	7.5115874	0.2185636	0.8318701	0.93914	-6.410826
CD55	0.0495113	8.1021413	0.218553	0.8318781	0.93914	-6.410828
TBC1D32	-0.021651	7.7057778	-0.218313	0.8320592	0.93928	-6.410885
MAFB	0.0158611	6.8267016	0.2179072	0.8323662	0.93952	-6.41098
ADAM17	0.0159035	7.968413	0.2178599	0.832402	0.93952	-6.410991
TOP1MT	0.0212322	9.1821134	0.2175698	0.8326212	0.93956	-6.411059
TMEM198	0.0147712	7.188127	0.2175373	0.8326458	0.93956	-6.411067
MCCC1	0.0205098	9.6339705	0.2175061	0.8326694	0.93956	-6.411074
ARHGEF7	0.0189085	8.7111564	0.2174127	0.83274	0.93956	-6.411096
ZFYVE16	-0.014187	7.155981	-0.217369	0.8327729	0.93956	-6.411106
SLC5A10	-0.016891	7.0858951	-0.217226	0.8328812	0.93956	-6.41114

LCE1B	-0.016771	6.9187761	-0.217215	0.8328895	0.93956	-6.411142
ANO10	-0.016379	7.0945739	-0.217023	0.8330347	0.93962	-6.411187
GINS3	-0.019582	10.439828	-0.216801	0.8332024	0.93962	-6.411239
PTGR1	0.0133904	6.7791098	0.2167466	0.8332436	0.93962	-6.411252
LTB4R	-0.029205	7.3374316	-0.216694	0.8332832	0.93962	-6.411264
EIF3J	-0.033601	9.8396287	-0.216664	0.8333064	0.93962	-6.411271
SH3D19	-0.01631	6.8101011	-0.216581	0.8333687	0.93962	-6.411291
PIP4K2B	0.0188874	8.4074366	0.2165511	0.8333914	0.93962	-6.411298
SLC35D3	-0.014271	6.7001086	-0.215829	0.8339373	0.94001	-6.411466
LRP4	0.0148198	6.7782126	0.2157189	0.8340208	0.94001	-6.411491
GAL	0.0147865	6.7383548	0.2156025	0.8341088	0.94001	-6.411519
KCNG2	-0.019801	7.4060603	-0.215594	0.8341154	0.94001	-6.411521
PWP1	0.0178708	11.002929	0.2152496	0.8343757	0.94001	-6.4116
PXN	0.0180722	6.980086	0.2152126	0.8344037	0.94001	-6.411609
SLC39A9	-0.019112	7.7133246	-0.215026	0.8345451	0.94001	-6.411652
FAM205A	-0.018593	6.7274543	-0.21497	0.8345874	0.94001	-6.411665
NXF2	0.0146674	6.8670131	0.2149651	0.8345909	0.94001	-6.411666
ALG1L	-0.016741	7.2253467	-0.214914	0.8346298	0.94001	-6.411678
NPRL3	-0.01568	7.9969513	-0.214897	0.8346424	0.94001	-6.411682
COL8A2	-0.016389	7.2799144	-0.214849	0.8346788	0.94001	-6.411693
NIPAL3	0.0146004	7.7367806	0.2147791	0.8347316	0.94001	-6.411709
SHQ1	0.014054	8.6904869	0.2147638	0.8347432	0.94001	-6.411713
PTTG2	-0.014716	6.8241982	-0.214759	0.8347465	0.94001	-6.411714
EIF3L	0.0169911	13.044174	0.2147336	0.834766	0.94001	-6.41172
OR5M10	0.015287	6.7707921	0.2145483	0.8349062	0.94009	-6.411763
GUCY1B3	-0.015809	6.8329258	-0.214457	0.8349754	0.94009	-6.411784
SEC24B	0.0150449	7.9344204	0.214322	0.8350774	0.94009	-6.411815
MADD	0.0163003	7.5524966	0.21429	0.8351016	0.94009	-6.411823
NKX3-1	-0.017089	6.8211063	-0.214197	0.8351721	0.9401	-6.411844
TPPP	0.0161869	6.8322666	0.2139916	0.8353274	0.94011	-6.411891
MPST	0.020615	7.8022971	0.2139864	0.8353313	0.94011	-6.411893
KCNQ3	0.0161563	6.8910536	0.2139258	0.8353772	0.94011	-6.411907
S1PR5	0.0160604	6.7450186	0.2138466	0.8354371	0.94011	-6.411925
ZNF536	0.0157663	6.9118334	0.213703	0.8355457	0.94016	-6.411958
TRPC2	-0.014421	6.7511755	-0.21358	0.8356387	0.94017	-6.411986
HIVEP2	-0.019006	7.4593241	-0.213513	0.8356896	0.94017	-6.412002
MAP7	-0.013077	6.8076691	-0.213433	0.8357498	0.94017	-6.41202
ATP6V0A4	-0.013333	6.8260187	-0.213222	0.8359101	0.94028	-6.412069
CHTOP	-0.019337	10.106104	-0.213092	0.8360077	0.94032	-6.412098
SMPD1	-0.014889	7.03615	-0.212919	0.8361388	0.94039	-6.412138
DNAJC21	0.0216297	7.5018231	0.2128074	0.8362235	0.9404	-6.412164
OR1F1	0.0163613	6.8889555	0.2127332	0.8362796	0.9404	-6.412181
EHD3	-0.016319	6.8827041	-0.212575	0.8363993	0.94044	-6.412217

AGTPBP1	-0.016907	8.1712606	-0.212518	0.8364423	0.94044	-6.41223
KRI1	0.0134358	7.6786505	0.2123338	0.8365819	0.94044	-6.412272
SCG5	0.0172256	6.8983443	0.2123074	0.8366019	0.94044	-6.412278
NR3C1	-0.01524	7.146969	-0.21225	0.8366454	0.94044	-6.412291
CBFA2T2	-0.01725	7.1322067	-0.212116	0.8367468	0.94044	-6.412322
BRI3BP	0.0141979	8.7280878	0.2120382	0.8368056	0.94044	-6.41234
RBMY1J	-0.015971	6.8931841	-0.21201	0.8368268	0.94044	-6.412346
ZNF556	0.0185899	6.9402405	0.2116694	0.8370849	0.9406	-6.412424
SGO1	-0.01557	8.0550339	-0.211622	0.8371207	0.9406	-6.412435
LATS2	-0.013892	6.8082729	-0.211569	0.837161	0.9406	-6.412447
MAN1C1	0.0145734	6.7220984	0.2113745	0.8373081	0.94063	-6.412491
ENTPD8	-0.017066	6.83635	-0.211057	0.8375488	0.94063	-6.412564
LILRA3	-0.013562	6.7842695	-0.21099	0.837599	0.94063	-6.412579
NECAP1	-0.01896	10.218861	-0.210938	0.8376386	0.94063	-6.412591
RPUSD4	0.0190245	11.286486	0.2109172	0.8376543	0.94063	-6.412595
NPIPB12	-0.060517	10.486148	-0.210772	0.8377645	0.94063	-6.412628
TOP1P2	-0.014574	8.4020248	-0.210741	0.8377878	0.94063	-6.412635
ENO1-AS1	-0.019054	7.2646353	-0.21072	0.8378035	0.94063	-6.41264
WLS	0.0166975	7.0006973	0.2106828	0.8378318	0.94063	-6.412649
OR8G2P	0.015803	6.858624	0.2106798	0.8378341	0.94063	-6.412649
FAM174A	-0.014247	7.4213411	-0.21058	0.8379098	0.94064	-6.412672
SH3BGR	-0.015112	7.0776569	-0.210276	0.8381399	0.94082	-6.412741
CAPN2	-0.017045	6.8742452	-0.2102	0.838197	0.94082	-6.412758
HOMER1	0.0158593	6.7504581	0.2100083	0.8383426	0.94082	-6.412801
RNF150	0.0135324	6.7603021	0.2099785	0.8383651	0.94082	-6.412808
PLAUR	-0.012835	6.756424	-0.209916	0.8384122	0.94082	-6.412822
ANKRD20A8	0.0193134	7.1249591	0.2098626	0.8384529	0.94082	-6.412834
RPS26P25	-0.017624	14.24377	-0.209731	0.8385529	0.94086	-6.412864
CDH26	-0.019186	6.8542922	-0.209635	0.8386251	0.94087	-6.412886
MDN1	0.0183538	7.3495679	0.2094606	0.8387574	0.94093	-6.412925
TOM1L2	-0.014743	7.1528453	-0.209392	0.8388092	0.94093	-6.412941
C17orf97	0.0172731	9.3075861	0.2090619	0.8390593	0.94104	-6.413015
UBE2NL	0.0163844	7.2470764	0.2090474	0.8390703	0.94104	-6.413018
TTK	-0.029341	9.3196677	-0.209002	0.8391047	0.94104	-6.413029
USP37	-0.020964	7.6787937	-0.208754	0.8392923	0.94118	-6.413084
CDK5RAP1	-0.015155	8.5348598	-0.208478	0.839502	0.94134	-6.413147
FLOT1	0.0220913	9.0565542	0.2081903	0.8397197	0.94146	-6.413211
PLPPR2	-0.016579	6.8544883	-0.208064	0.8398155	0.94146	-6.41324
GCOM1	-0.013563	6.8240605	-0.208061	0.8398178	0.94146	-6.41324
PTGES2-AS1	0.0277201	7.4274295	0.2079624	0.8398923	0.94146	-6.413262
ADIPOQ	-0.013052	6.8307172	-0.20792	0.8399244	0.94146	-6.413272
FAAP20	0.0158223	9.1108842	0.2078077	0.8400096	0.94147	-6.413297
PRDX1	0.018584	13.515253	0.2077362	0.8400637	0.94147	-6.413313

ODF3L2	-0.01336	6.7975126	-0.20755	0.8402046	0.94151	-6.413355
GPRASP2	0.0149189	6.9624174	0.2074925	0.8402484	0.94151	-6.413368
LOC1001348	-0.025036	8.8034655	-0.207287	0.8404042	0.94151	-6.413414
FBP1	0.0177263	6.7724436	0.2072723	0.8404152	0.94151	-6.413417
PLPPR3	-0.016786	6.7837565	-0.2072	0.8404698	0.94151	-6.413433
DYNC2H1	-0.016195	7.4555968	-0.207173	0.8404903	0.94151	-6.413439
PTGER1	-0.01569	6.753849	-0.206599	0.8409256	0.94193	-6.413567
BLNK	-0.020261	7.2176	-0.206452	0.841037	0.94198	-6.4136
LST1	-0.012539	6.82774	-0.206158	0.8412601	0.94202	-6.413665
PCDHB5	-0.019363	6.7552568	-0.206149	0.8412664	0.94202	-6.413667
FOXH1	0.0229391	6.9207513	0.2061481	0.8412672	0.94202	-6.413667
STAT5B	-0.018304	7.7464322	-0.205908	0.841449	0.94204	-6.413721
SLC35D2	-0.014559	6.8806897	-0.20589	0.8414628	0.94204	-6.413725
UBE3B	0.017832	7.5496559	0.205864	0.8414826	0.94204	-6.41373
NGB	0.0147355	6.7960118	0.2055773	0.8416999	0.94204	-6.413794
COQ9	0.0264917	10.379498	0.2054853	0.8417697	0.94204	-6.413814
CARD14	0.0136395	7.5650126	0.2053265	0.8418901	0.94204	-6.41385
BIRC3	0.0223627	10.335484	0.205296	0.8419132	0.94204	-6.413856
TXNL4B	0.013131	7.4482262	0.2052536	0.8419453	0.94204	-6.413866
SCARNA22	-0.01386	7.078491	-0.205163	0.8420137	0.94204	-6.413886
PEF1	0.0139327	8.921905	0.2051367	0.842034	0.94204	-6.413892
FGF3	-0.016064	6.833028	-0.204981	0.8421516	0.94204	-6.413926
SV2A	-0.014719	6.7877927	-0.204973	0.842158	0.94204	-6.413928
SNORA11	-0.016197	6.8392565	-0.204941	0.842182	0.94204	-6.413935
ABI1	-0.016374	8.9929732	-0.204806	0.8422847	0.94204	-6.413965
HDAC9	0.0165928	7.1815515	0.2047728	0.8423099	0.94204	-6.413972
ZNF93	0.0144697	7.4234823	0.2047652	0.8423156	0.94204	-6.413974
XPO4	-0.015516	8.4503854	-0.204622	0.8424243	0.94209	-6.414005
ZNRF3	0.0167892	6.8281319	0.2043267	0.8426481	0.94211	-6.41407
ABCB1	-0.015348	6.8897718	-0.20431	0.8426607	0.94211	-6.414074
MSI1	0.0132668	6.8968892	0.2043025	0.8426665	0.94211	-6.414076
ATP1B3	0.0199573	9.4183214	0.2042499	0.8427064	0.94211	-6.414087
PCDH10	-0.015069	6.932869	-0.203992	0.8429016	0.94226	-6.414144
PCSK5	0.0185597	6.9777433	0.2037835	0.84306	0.9423	-6.41419
BOLA1	-0.014582	6.8867067	-0.203776	0.8430654	0.9423	-6.414191
CYSTM1	-0.016695	9.511527	-0.203457	0.8433076	0.9425	-6.414261
NAT9	-0.021956	9.2326513	-0.202986	0.8436648	0.94282	-6.414365
IFNGR2	0.0204085	11.141203	0.2027584	0.8438376	0.94295	-6.414414
DYM	0.0231213	9.7157363	0.2026132	0.8439477	0.943	-6.414446
B4GALT5	-0.017824	9.5533401	-0.202106	0.8443323	0.94335	-6.414557
ZBBX	-0.014099	7.0942681	-0.201901	0.8444881	0.94346	-6.414602
MECP2	0.0170434	7.0482191	0.2016594	0.8446713	0.94358	-6.414654
TRIO	-0.015572	7.502416	-0.201584	0.8447284	0.94358	-6.41467

DIS3	-0.02427	7.5558781	-0.201283	0.8449571	0.94376	-6.414736
GOLM1	0.0148376	6.7898228	0.2009266	0.8452274	0.94398	-6.414813
CD2AP	0.0288288	8.1079919	0.2008528	0.8452834	0.94398	-6.414829
ESR1	-0.014593	6.8685048	-0.200614	0.8454645	0.94411	-6.414881
HDHD2	0.0250505	9.5500043	0.2003688	0.8456507	0.9442	-6.414934
NPAS4	0.0189647	6.8801287	0.2003354	0.845676	0.9442	-6.414941
SEC62	-0.018824	8.2673946	-0.200034	0.8459051	0.94439	-6.415006
OR13C5	-0.013816	6.7564433	-0.199897	0.8460085	0.94442	-6.415036
UQCR11	-0.016612	8.3896504	-0.19983	0.84606	0.94442	-6.41505
CNPY4	-0.012199	7.4299551	-0.199544	0.8462768	0.94447	-6.415112
AIF1	0.0121183	7.3106377	0.19954	0.8462798	0.94447	-6.415113
BRWD1	-0.013175	7.5801887	-0.199507	0.8463047	0.94447	-6.41512
HSPB1	-0.015117	6.9282553	-0.199365	0.8464125	0.94452	-6.41515
C6orf222	-0.016658	6.8196557	-0.199104	0.8466105	0.94467	-6.415206
FAM189B	-0.013739	9.2076402	-0.198579	0.8470093	0.94497	-6.415319
PLEKHG5	-0.023521	6.9800978	-0.198523	0.8470519	0.94497	-6.415331
GTF2E1	0.0128921	8.631496	0.1983726	0.8471661	0.94497	-6.415363
PCNT	0.0145599	9.2570063	0.1983659	0.8471712	0.94497	-6.415364
ZNF333	0.0142668	7.0916252	0.1983191	0.8472067	0.94497	-6.415374
SND1-IT1	-0.042941	8.5381151	-0.198024	0.8474308	0.94513	-6.415438
ELP5	-0.01328	7.8926721	-0.19796	0.8474791	0.94513	-6.415451
SNRNP200	0.0196464	8.1583435	0.1976985	0.847678	0.94518	-6.415507
ASPM	0.0390191	9.5026459	0.1976562	0.8477101	0.94518	-6.415516
SMIM7	-0.015476	9.1302524	-0.197458	0.8478607	0.94518	-6.415558
TCP1	-0.014281	10.195268	-0.197385	0.8479158	0.94518	-6.415574
C6orf58	-0.013244	7.038913	-0.197296	0.8479836	0.94518	-6.415593
GUSBP5	-0.013893	6.8588555	-0.197238	0.8480277	0.94518	-6.415605
ARL6IP6	-0.023454	8.2222554	-0.197164	0.8480841	0.94518	-6.415621
OMG	-0.017297	6.8914404	-0.197138	0.848104	0.94518	-6.415626
OR2H2	-0.015678	7.032102	-0.197032	0.8481839	0.94518	-6.415649
HIST1H1A	-0.019402	7.3468663	-0.197015	0.848197	0.94518	-6.415652
FAM221A	-0.013002	6.7045073	-0.196969	0.8482324	0.94518	-6.415662
HAND2	-0.016187	6.9030844	-0.196195	0.84882	0.94571	-6.415826
NCOA7	0.0161866	8.9544475	0.1961701	0.8488389	0.94571	-6.415832
LOC730020	0.0136779	7.1589579	0.1960192	0.8489535	0.94577	-6.415864
SMAD5	0.0145339	8.1888268	0.1958296	0.8490975	0.94578	-6.415904
AOX2P	0.0127802	6.8543904	0.1957102	0.8491882	0.94578	-6.415929
FZD8	0.0138748	6.8731743	0.1957004	0.8491957	0.94578	-6.415931
IL12RB1	-0.018853	7.585182	-0.195664	0.8492233	0.94578	-6.415939
LINC02091	0.0162761	7.0120681	0.1955729	0.8492926	0.94578	-6.415958
LRRK1	-0.021314	8.1669293	-0.195314	0.849489	0.94579	-6.416012
COBL	-0.014941	6.8540429	-0.195301	0.8494991	0.94579	-6.416015
FUT10	0.0135344	6.7780489	0.1952744	0.8495193	0.94579	-6.416021

KHK	-0.014236	7.2868948	-0.195082	0.8496652	0.94579	-6.416061
CDY1B	-0.015922	6.9043985	-0.195047	0.8496919	0.94579	-6.416069
ARPP19	0.0170893	9.273917	0.1950465	0.8496925	0.94579	-6.416069
PCDHB13	-0.013071	6.7104357	-0.19468	0.849971	0.9459	-6.416146
GRAP	-0.015096	8.1910047	-0.194646	0.8499967	0.9459	-6.416153
RAP2C	0.0200797	8.7186252	0.1944266	0.8501636	0.9459	-6.416199
CHRM4	-0.016781	7.0860013	-0.194361	0.8502133	0.9459	-6.416213
ANKRD22	0.0125188	7.0377242	0.194312	0.8502507	0.9459	-6.416223
OR12D3	-0.014556	6.8859554	-0.19427	0.8502825	0.9459	-6.416232
CRHR2	-0.016416	6.9793276	-0.194139	0.8503819	0.9459	-6.416259
DNTTIP1	0.0157972	9.2456292	0.1940801	0.850427	0.9459	-6.416271
MYLK4	-0.012513	6.8584136	-0.193982	0.8505017	0.9459	-6.416292
HIST2H2AA4	-0.014943	8.2287982	-0.193976	0.8505061	0.9459	-6.416293
LOC730268	-0.013309	6.8852222	-0.193942	0.8505321	0.9459	-6.4163
STARD10	-0.013389	7.2840359	-0.193762	0.850669	0.9459	-6.416338
SLC35F5	0.0162709	8.3369148	0.1936997	0.8507161	0.9459	-6.416351
TRUB2	0.0160995	8.0707295	0.1936636	0.8507435	0.9459	-6.416359
FER	0.0175367	7.2655102	0.1936419	0.85076	0.9459	-6.416363
SPATS2L	-0.01735	7.0730533	-0.193512	0.8508588	0.94594	-6.41639
MLLT11	0.0191228	10.20233	0.1932845	0.8510316	0.946	-6.416438
LARGE1	-0.014941	7.5591976	-0.193275	0.8510391	0.946	-6.41644
EOMES	0.0155022	6.8930711	0.1931749	0.851115	0.94601	-6.416461
TRO	-0.013738	6.9585945	-0.192804	0.8513969	0.94614	-6.416538
TM9SF3	0.0238635	8.8253632	0.1926145	0.851541	0.94614	-6.416577
SERPINA5	0.0155138	7.0967198	0.1924597	0.8516587	0.94614	-6.416609
LOC401472	0.012774	7.0028192	0.1923803	0.851719	0.94614	-6.416626
ADSSL1	-0.012082	6.8664909	-0.192217	0.8518429	0.94614	-6.41666
RAB2A	-0.015754	8.4168517	-0.192192	0.8518621	0.94614	-6.416665
MIR15A	-0.015061	6.7852664	-0.192132	0.8519075	0.94614	-6.416677
DRD1	0.0127803	6.8359536	0.1921078	0.8519262	0.94614	-6.416682
ZNF133	-0.016372	7.5881842	-0.192065	0.8519584	0.94614	-6.416691
SZRD1	-0.018317	6.9425185	-0.19203	0.8519856	0.94614	-6.416698
GYG2	0.0122496	6.8471346	0.1919345	0.852058	0.94614	-6.416718
STK19	0.0173815	8.5603418	0.1918519	0.8521208	0.94614	-6.416735
TESC	-0.014065	9.1354175	-0.191798	0.8521619	0.94614	-6.416746
TPM1	0.0118931	6.8394566	0.19175	0.8521983	0.94614	-6.416756
SMURF1	-0.016599	7.0631943	-0.191741	0.8522049	0.94614	-6.416758
ROPN1L	-0.012585	6.8779512	-0.191456	0.8524218	0.94631	-6.416817
SNRNP25	0.0146629	9.4674328	0.1912814	0.8525546	0.94638	-6.416853
CCND2	0.0130714	6.8677519	0.1908399	0.8528904	0.94661	-6.416944
TBC1D8	0.0139659	6.8810986	0.1908374	0.8528923	0.94661	-6.416945
TMTC4	0.0126167	7.223465	0.1906869	0.8530067	0.94664	-6.416976
WDR45	-0.011761	7.3317701	-0.190391	0.8532318	0.94664	-6.417036

SYCE1	-0.015113	7.0745531	-0.190342	0.8532691	0.94664	-6.417047
INPP5J	0.0130381	6.7738397	0.1902788	0.8533172	0.94664	-6.41706
BTNL9	0.0150418	6.7474797	0.1902175	0.8533638	0.94664	-6.417072
OSTM1	-0.014718	7.6823765	-0.190136	0.8534257	0.94664	-6.417089
GLRB	0.0124536	6.7553681	0.1900644	0.8534802	0.94664	-6.417104
RPL39L	0.0124318	9.8525169	0.1899688	0.853553	0.94664	-6.417123
EEF1AKMT3	0.0176424	8.0839298	0.1899074	0.8535997	0.94664	-6.417136
HIPK2	-0.014039	6.8733178	-0.18987	0.8536281	0.94664	-6.417143
NETO2	0.0279018	9.4330218	0.1898695	0.8536285	0.94664	-6.417143
TCEAL6	-0.013523	6.7709405	-0.189763	0.8537097	0.94666	-6.417165
GABRB2	0.0137121	6.8079221	0.1892358	0.8541106	0.94702	-6.417273
SNX29P2	0.0205654	8.5391817	0.1891655	0.8541641	0.94702	-6.417287
ELF2	-0.012595	7.5902684	-0.189062	0.8542429	0.94703	-6.417309
TTBK2	-0.014007	6.7969798	-0.188767	0.8544669	0.94718	-6.417369
SYT17	0.0114628	6.8322899	0.1887137	0.8545078	0.94718	-6.417379
GTF3C2	-0.013842	9.8560018	-0.188555	0.8546287	0.9472	-6.417412
RBMY1E	0.014708	6.9268987	0.1885218	0.8546538	0.9472	-6.417419
RGN	-0.016725	6.9405818	-0.188232	0.8548739	0.94737	-6.417477
IKZF2	-0.013299	7.0492316	-0.187946	0.8550921	0.94754	-6.417536
TOR1AIP2	-0.013335	7.1914279	-0.187783	0.8552157	0.94755	-6.417568
DAGLB	0.0204848	8.9506241	0.1877644	0.8552302	0.94755	-6.417572
MED6	0.0191886	10.657566	0.1874364	0.8554798	0.94763	-6.417639
FAM83H	-0.012116	6.7554547	-0.187428	0.855486	0.94763	-6.41764
VPS72	-0.01463	8.4472599	-0.187415	0.8554959	0.94763	-6.417643
RBMXL1	0.0167416	7.1328034	0.1872888	0.8555921	0.94764	-6.417669
SWSAP1	0.0162828	7.1599711	0.1871564	0.8556929	0.94764	-6.417695
NDUFS2	0.0162981	7.47767	0.1871469	0.8557001	0.94764	-6.417697
DBF4	-0.013384	7.0345257	-0.186964	0.8558396	0.94766	-6.417734
C1QC	-0.012565	6.7889936	-0.186883	0.8559012	0.94766	-6.41775
TRERF1	-0.013151	7.4299672	-0.186782	0.8559776	0.94766	-6.417771
HMGCR	0.0178534	10.397727	0.1867796	0.8559797	0.94766	-6.417771
CTU1	0.0133325	7.382166	0.1865842	0.8561284	0.94774	-6.417811
ARMCX5	0.0148871	6.8739471	0.1865205	0.856177	0.94774	-6.417823
WDR63	0.0161297	6.8417972	0.1862257	0.8564013	0.9479	-6.417883
APBA2	-0.011763	6.7077791	-0.186151	0.8564584	0.9479	-6.417898
SYTL4	0.0194604	6.8195011	0.1859186	0.8566351	0.94802	-6.417944
ZNF146	0.0195229	8.1413435	0.1858128	0.8567157	0.94802	-6.417966
GLI3	-0.015518	6.9467383	-0.185755	0.8567596	0.94802	-6.417977
TRMT1L	-0.016991	7.6206906	-0.185622	0.8568607	0.94802	-6.418004
NDRG1	-0.014428	6.9275782	-0.185479	0.8569696	0.94802	-6.418032
POLDIP2	-0.015649	9.0905454	-0.185447	0.8569939	0.94802	-6.418039
ZNF451	-0.019853	7.820601	-0.185417	0.8570169	0.94802	-6.418045
ZNF80	-0.015583	6.9708635	-0.185266	0.8571317	0.94803	-6.418075

MIR450A2	-0.011987	6.841528	-0.185239	0.8571524	0.94803	-6.41808
SLC37A3	0.0123383	7.0594322	0.1851426	0.8572259	0.94803	-6.4181
HSPA2	-0.012454	6.9472279	-0.184656	0.8575966	0.94831	-6.418197
SLC8A3	-0.013469	6.9689067	-0.184644	0.8576054	0.94831	-6.418199
B3GNT5	-0.01475	6.7569325	-0.184511	0.8577067	0.94834	-6.418226
ZNF74	-0.016691	6.6775996	-0.184437	0.8577629	0.94834	-6.41824
TMCO3	-0.014756	8.0707649	-0.184234	0.8579179	0.94844	-6.418281
IFNE	0.0140868	6.8370184	0.1841454	0.8579853	0.94844	-6.418298
PMS2CL	0.0124073	7.4543316	0.1837535	0.8582838	0.94867	-6.418376
OR2AE1	-0.012205	6.7337979	-0.183687	0.8583346	0.94867	-6.418389
PPAT	-0.023074	10.144985	-0.183625	0.8583815	0.94867	-6.418402
DDX58	0.0125858	6.8459102	0.183452	0.8585135	0.94874	-6.418436
MNX1	-0.012271	7.0869884	-0.183093	0.8587873	0.94897	-6.418507
NSL1	-0.013221	8.1738126	-0.182809	0.8590034	0.94911	-6.418563
GSN	0.0142573	6.7748122	0.1827432	0.8590534	0.94911	-6.418576
SRRM5	0.0137021	6.9881506	0.1826402	0.8591318	0.94911	-6.418596
NUDT16	-0.017539	7.1684342	-0.182589	0.8591711	0.94911	-6.418606
LDHC	0.0119086	6.9515786	0.1824076	0.8593091	0.94917	-6.418642
KIAA1324L	0.0111656	6.8497056	0.182248	0.8594306	0.94917	-6.418674
ARL5B	0.0197491	7.4142779	0.1822217	0.8594507	0.94917	-6.418679
MYO3B	0.0170175	7.6224617	0.1821692	0.8594907	0.94917	-6.418689
ACVRL1	-0.011808	6.769603	-0.18199	0.8596273	0.94925	-6.418724
MEIS3	-0.015035	6.8525516	-0.181867	0.8597209	0.94926	-6.418748
ANKRD36B	-0.017103	7.2942747	-0.181766	0.8597976	0.94926	-6.418768
PIM3	0.0169036	7.280354	0.1817297	0.8598256	0.94926	-6.418775
WFDC3	0.0126213	6.864805	0.1816199	0.8599092	0.94928	-6.418797
RAB5A	0.022776	8.5939132	0.1814782	0.8600172	0.94932	-6.418825
RPA2	-0.018309	11.843643	-0.181	0.8603819	0.94965	-6.418918
EHD1	-0.026026	12.201122	-0.180784	0.8605463	0.94971	-6.41896
DISC1	0.0117003	6.7911661	0.1807176	0.8605968	0.94971	-6.418973
ZFP41	0.0137121	6.8493001	0.1806248	0.8606676	0.94971	-6.418991
TRIM65	0.0167226	7.4792019	0.1805881	0.8606955	0.94971	-6.418999
MTURN	0.0217193	9.321711	0.180152	0.8610279	0.95001	-6.419083
STAG3L2	-0.021767	8.2962611	-0.17985	0.8612584	0.95019	-6.419142
TRIM63	0.0150543	6.9439034	0.1797188	0.8613581	0.95023	-6.419168
CHST2	-0.013027	7.4878823	-0.179489	0.8615334	0.95035	-6.419212
RAB18	-0.017127	7.5016239	-0.179076	0.8618478	0.9506	-6.419292
GOLGA4	0.0190055	7.1185472	0.179021	0.86189	0.9506	-6.419303
PCDHA11	0.0129721	6.9183727	0.1789	0.8619823	0.95063	-6.419326
LPAR2	0.018142	8.1880569	0.1788076	0.8620527	0.95064	-6.419344
SPCS2	-0.012701	9.2851486	-0.178709	0.8621283	0.95065	-6.419363
PCBD1	-0.012496	7.0316868	-0.178561	0.8622405	0.9507	-6.419391
ABRACL	0.0144178	10.03462	0.17841	0.8623559	0.95075	-6.419421

MAP3K7	0.0151532	8.5364604	0.1780867	0.8626024	0.95095	-6.419483
UBR5	-0.012889	9.4857787	-0.177797	0.8628233	0.95113	-6.419538
ACADS	-0.013053	6.9027775	-0.177494	0.8630544	0.95125	-6.419596
ZNF3	0.0148017	7.4655966	0.1774601	0.8630802	0.95125	-6.419603
TNXA	0.0114579	6.9208559	0.1773973	0.8631281	0.95125	-6.419615
GAS7	-0.014072	6.9543985	-0.177102	0.8633531	0.95137	-6.419671
TOLLIP	-0.015533	7.5312786	-0.177012	0.8634216	0.95137	-6.419689
MYPOP	0.0141413	9.6517171	0.176998	0.8634327	0.95137	-6.419691
LANCL3	0.0127234	6.8210286	0.1768652	0.8635339	0.95137	-6.419717
SMG1	-0.011944	8.1331125	-0.17672	0.8636448	0.95137	-6.419744
LINC00543	0.0134454	6.8134951	0.1766868	0.8636701	0.95137	-6.419751
PUDP	-0.017228	8.6337489	-0.176591	0.8637431	0.95137	-6.419769
RTL8A	0.0133241	6.7598642	0.1765643	0.8637635	0.95137	-6.419774
FOXC2	-0.014984	7.2690009	-0.176257	0.8639977	0.95142	-6.419833
FAM197Y9	0.0151422	6.9132236	0.176253	0.8640009	0.95142	-6.419833
VPS53	-0.015713	7.0191341	-0.176148	0.8640806	0.95142	-6.419853
RAB27B	-0.016018	6.8995552	-0.176045	0.8641593	0.95142	-6.419873
SFT2D3	0.0159704	7.3807853	0.1760349	0.8641673	0.95142	-6.419875
GNGT2	0.013905	8.1015641	0.1759281	0.8642487	0.95142	-6.419895
KCNK6	0.0125532	6.9709714	0.1758944	0.8642744	0.95142	-6.419902
EPHX4	-0.01292	7.0328825	-0.175823	0.8643292	0.95142	-6.419915
OBP2B	-0.014539	6.8597825	-0.175209	0.8647972	0.95186	-6.420031
C1QA	0.0167646	6.9988665	0.1749606	0.8649868	0.952	-6.420078
DSC2	0.01131	6.8325861	0.1745088	0.8653316	0.95226	-6.420164
ATMIN	0.0132624	7.4296549	0.1744837	0.8653507	0.95226	-6.420168
PENK	0.0161114	6.8398583	0.1742991	0.8654916	0.95234	-6.420203
ASPH	0.0150905	7.1158056	0.1736049	0.8660214	0.95251	-6.420333
GGTLC1	-0.010988	7.2322569	-0.173572	0.8660467	0.95251	-6.42034
AUP1	-0.014427	8.0083923	-0.17352	0.8660865	0.95251	-6.420349
EDNRB	0.0117635	6.8409351	0.1735149	0.86609	0.95251	-6.42035
CAMK1	-0.014865	6.8163295	-0.173475	0.8661203	0.95251	-6.420358
TMEM202	-0.013343	6.8821587	-0.173399	0.8661787	0.95251	-6.420372
LINC01512	0.0183351	7.0756956	0.1731747	0.8663497	0.95251	-6.420414
TBC1D9B	0.0168755	8.3714122	0.1731042	0.8664035	0.95251	-6.420427
ARL1	-0.015855	8.356681	-0.173033	0.8664582	0.95251	-6.420441
DEXI	0.0134946	8.3238632	0.1729753	0.8665019	0.95251	-6.420451
FANCE	-0.018101	9.1173905	-0.172931	0.8665359	0.95251	-6.42046
LOC1001281	0.0121332	6.8901127	0.1728587	0.8665909	0.95251	-6.420473
OR2A14	0.0114154	6.9493687	0.1728383	0.8666065	0.95251	-6.420477
PPP6C	0.0124367	11.218493	0.172744	0.8666785	0.95251	-6.420494
IGIP	-0.019287	7.1339883	-0.172707	0.8667068	0.95251	-6.420501
FOXD4	0.0135637	7.0787005	0.1726013	0.8667874	0.95251	-6.420521
SEMA6B	0.0132357	7.0644185	0.1725904	0.8667957	0.95251	-6.420523

CCDC134	-0.014972	7.030044	-0.172492	0.8668705	0.95251	-6.420541
YWHAZ	-0.015174	10.367943	-0.17242	0.8669257	0.95251	-6.420555
LNP1	-0.012854	6.9670566	-0.172385	0.8669525	0.95251	-6.420561
MRPL11	-0.012548	9.8980998	-0.172148	0.8671335	0.95261	-6.420605
FOXP2	0.0128586	6.8566113	0.1720424	0.867214	0.95261	-6.420625
BCAM	0.0114187	6.7489603	0.1719706	0.8672689	0.95261	-6.420638
PLA2G4D	0.0159554	6.8570515	0.1719245	0.867304	0.95261	-6.420647
LYSMD1	0.0166261	7.1555668	0.171626	0.8675319	0.95279	-6.420702
ESPN	0.0117633	6.8083384	0.1714217	0.8676879	0.9528	-6.42074
THNSL1	-0.012127	7.8296497	-0.171378	0.8677215	0.9528	-6.420748
OGG1	-0.022448	8.6642986	-0.171359	0.867736	0.9528	-6.420752
LINC00518	-0.0111	6.9587507	-0.171238	0.8678284	0.95283	-6.420774
TMED8	0.0148277	6.8681917	0.1708467	0.868127	0.95309	-6.420846
BTBD1	-0.020319	9.3666872	-0.170523	0.868374	0.95328	-6.420906
NUDT8	-0.013822	7.2490752	-0.170435	0.8684413	0.95329	-6.420922
SCARNA3	-0.015014	6.9909001	-0.170289	0.8685531	0.95334	-6.420949
GABPA	-0.023241	8.0318478	-0.170053	0.8687331	0.95335	-6.420992
CEP170	-0.014217	6.9577467	-0.170034	0.8687479	0.95335	-6.420996
TRIM36	-0.011182	6.8706059	-0.170015	0.868762	0.95335	-6.420999
TAF5L	-0.013309	7.2759526	-0.169464	0.869183	0.95363	-6.4211
SLC9A4	0.0143328	7.3008806	0.169445	0.8691974	0.95363	-6.421104
ZNF571	-0.011655	6.9977808	-0.169389	0.8692403	0.95363	-6.421114
HMGN2	-0.010813	10.063099	-0.169275	0.8693275	0.95363	-6.421135
ZNF775	-0.019665	7.2910629	-0.169035	0.8695105	0.95363	-6.421179
ZNF77	0.0146092	8.1048432	0.1689459	0.8695786	0.95363	-6.421195
IL7	0.0131268	7.2798332	0.1688514	0.8696508	0.95363	-6.421212
PRCP	-0.018443	9.9905806	-0.168809	0.8696833	0.95363	-6.42122
CCND1	-0.010402	6.7883584	-0.168808	0.8696839	0.95363	-6.42122
F12	-0.013388	7.7942086	-0.168647	0.8698071	0.95363	-6.421249
CRYGB	0.0108931	6.9047472	0.1685274	0.8698983	0.95363	-6.421271
OR5M9	0.0131126	6.8380802	0.1685194	0.8699044	0.95363	-6.421273
USP28	0.0143225	6.9460285	0.1685004	0.8699189	0.95363	-6.421276
C1orf204	-0.017488	6.9438107	-0.168489	0.8699273	0.95363	-6.421278
SEMA3A	-0.010989	6.8215674	-0.168265	0.8700989	0.95371	-6.421319
DGKZ	0.0105997	6.8331509	0.1681606	0.8701786	0.95371	-6.421338
UBE2J2	0.0120062	7.7989307	0.1681387	0.8701952	0.95371	-6.421342
FAN1	-0.015324	7.376244	-0.167812	0.8704447	0.95391	-6.421401
FPGS	0.0126512	6.9204661	0.167618	0.8705931	0.95396	-6.421436
NUB1	0.0135085	9.507258	0.1675595	0.8706378	0.95396	-6.421447
ARMC9	-0.013062	7.0024471	-0.167477	0.8707007	0.95396	-6.421462
CTSO	-0.01426	6.8148507	-0.167405	0.8707559	0.95396	-6.421475
ARMC5	0.0110243	7.0156734	0.1672406	0.8708814	0.95403	-6.421504
KMT2E	0.0108815	7.2440636	0.1669928	0.8710708	0.95416	-6.421549

MT1DP	-0.010435	6.8626544	-0.166715	0.8712833	0.95432	-6.421599
SNAI3-AS1	0.0105137	6.9216668	0.1665629	0.8713993	0.95437	-6.421627
LOC285147	0.0151529	6.8774651	0.1664911	0.8714542	0.95437	-6.42164
SCYL2	0.0185675	8.9368291	0.1659432	0.8718729	0.95471	-6.421738
LOC727808	0.0295602	13.505064	0.1659153	0.8718942	0.95471	-6.421743
FCGR2A	0.0114346	6.9538333	0.1655932	0.8721404	0.9549	-6.421801
CDR2L	0.0104636	6.7898319	0.1654708	0.872234	0.9549	-6.421822
CFH	0.0120972	7.0743389	0.1654293	0.8722657	0.9549	-6.42183
AHNAK	-0.010693	6.8068416	-0.165045	0.8725591	0.95515	-6.421898
PITX2	0.011025	6.8782104	0.1649191	0.8726557	0.95518	-6.421921
COPS7B	-0.011631	9.9382087	-0.164485	0.8729873	0.95535	-6.421998
C18orf12	0.0120469	6.9314485	0.164454	0.8730112	0.95535	-6.422004
OTUD7A	0.0117621	6.8935935	0.164397	0.8730548	0.95535	-6.422014
FKRP	0.0124498	7.1732884	0.1643718	0.8730741	0.95535	-6.422018
BBS5	-0.011286	6.9187633	-0.164196	0.8732085	0.95538	-6.422049
MAP2	0.0126906	6.9255554	0.1641671	0.8732306	0.95538	-6.422054
WWOX	0.0111547	7.5808195	0.1637577	0.8735436	0.95565	-6.422127
FUT8-AS1	0.0217211	7.1993134	0.1635176	0.8737271	0.95578	-6.422169
APOOL	-0.012532	7.4874142	-0.163249	0.8739324	0.95594	-6.422217
CSPG5	-0.011582	6.8639301	-0.163011	0.8741149	0.95603	-6.422259
TSPAN9	-0.016656	6.7767965	-0.162965	0.8741499	0.95603	-6.422267
C16orf58	-0.019174	10.295633	-0.162257	0.8746914	0.95655	-6.422391
ARFGAP1	-0.016127	7.6813085	-0.162078	0.8748281	0.95662	-6.422423
GCDH	-0.014108	8.6615919	-0.161857	0.8749969	0.95662	-6.422461
TYRO3	0.0110138	6.7231205	0.1617825	0.8750541	0.95662	-6.422474
USP30	-0.011961	7.1002666	-0.161779	0.8750569	0.95662	-6.422475
MPV17L2	0.0127197	7.9854895	0.1617496	0.8750793	0.95662	-6.42248
SCGB1D2	0.01223	6.8055184	0.1612599	0.8754538	0.95695	-6.422565
SPP1	-0.010351	6.8164458	-0.16115	0.8755378	0.95697	-6.422584
APMAP	-0.012437	8.8347481	-0.160719	0.8758678	0.95726	-6.422659
TJP1	-0.010083	6.9281776	-0.160638	0.8759292	0.95726	-6.422673
ZBTB5	0.0115124	7.9874235	0.1602789	0.8762042	0.95742	-6.422736
CCL23	0.0121712	6.7952736	0.1601787	0.876281	0.95742	-6.422753
NSRP1	0.0200069	7.7231831	0.1601258	0.8763214	0.95742	-6.422762
FAM45BP	0.0135955	6.9525397	0.1599312	0.8764703	0.95742	-6.422796
MECOM	0.0122768	6.9102267	0.1599141	0.8764834	0.95742	-6.422799
WNT3	0.0098277	6.9246828	0.1599023	0.8764924	0.95742	-6.422801
SOWAHC	-0.012791	6.793906	-0.159848	0.8765339	0.95742	-6.42281
C4orf32	0.0205893	8.6691858	0.1594305	0.8768534	0.95755	-6.422882
CASC10	0.0119926	6.9538538	0.1594161	0.8768644	0.95755	-6.422885
NBPF22P	-0.012166	6.7420799	-0.159323	0.8769354	0.95755	-6.422901
WDR34	0.0155957	8.1791394	0.1592396	0.8769995	0.95755	-6.422915
WDR54	-0.014141	11.188722	-0.159232	0.877005	0.95755	-6.422916

WIPI2	0.0134123	7.5929951	0.1591473	0.8770702	0.95755	-6.422931
TSPAN33	0.0214219	10.18916	0.1590459	0.8771477	0.95755	-6.422948
NOTCH2NL	0.0107087	7.223361	0.1589964	0.8771856	0.95755	-6.422957
CD3D	-0.010557	6.7318498	-0.158919	0.8772448	0.95755	-6.42297
GJA10	0.0146155	6.933266	0.1585127	0.8775558	0.95766	-6.42304
GLMP	-0.020414	8.5939659	-0.158511	0.8775574	0.95766	-6.42304
NAV2	0.0099144	6.9055542	0.158502	0.877564	0.95766	-6.423042
MPZ	0.0133519	7.0447348	0.1583832	0.8776549	0.95766	-6.423062
CBLN3	-0.016273	8.4818622	-0.158355	0.8776762	0.95766	-6.423067
LNX2	0.0148337	7.8995022	0.1581457	0.8778366	0.95774	-6.423103
BIN2	-0.011773	6.6897824	-0.158076	0.8778902	0.95774	-6.423115
QPCTL	-0.015246	7.7665539	-0.157932	0.8780005	0.95774	-6.423139
FAM231D	0.0129825	7.2721051	0.1579216	0.8780081	0.95774	-6.423141
SLC50A1	-0.012119	9.4666724	-0.157738	0.8781489	0.95782	-6.423172
ABCG4	0.0106535	6.9178986	0.1575563	0.8782878	0.95784	-6.423203
STMN2	0.0130944	6.9365485	0.1575415	0.878299	0.95784	-6.423206
PTPRN2	-0.011912	6.840012	-0.157392	0.8784134	0.95784	-6.423231
PLPP1	0.0110571	7.5334632	0.1573725	0.8784284	0.95784	-6.423234
SHC2	-0.01144	6.874247	-0.157171	0.8785826	0.95786	-6.423269
DCAF10	0.0148809	8.1761855	0.1570736	0.8786572	0.95786	-6.423285
SOD2	-0.011902	9.2908204	-0.157059	0.8786682	0.95786	-6.423288
FAAH	0.0117586	6.8218882	0.1569991	0.8787143	0.95786	-6.423298
PACSIN2	-0.011023	8.7487354	-0.156895	0.8787943	0.95786	-6.423315
RSPO2	-0.019641	6.9566911	-0.156837	0.8788381	0.95786	-6.423325
SMC5	-0.01254	6.86156	-0.156686	0.8789539	0.9579	-6.423351
ATF2	-0.011801	7.5543609	-0.156608	0.8790138	0.9579	-6.423364
CTTNBP2NL	-0.011467	6.8749024	-0.156386	0.879184	0.95802	-6.423402
YIPF1	0.0104564	8.8472233	0.1562341	0.8793	0.95807	-6.423427
CABP7	0.0118927	6.8485372	0.1561067	0.8793975	0.95811	-6.423449
TYROBP	0.0109217	6.7742354	0.1553173	0.8800019	0.95864	-6.423581
SPOUT1	0.0158669	9.4217274	0.1552387	0.8800621	0.95864	-6.423595
STAG2	-0.011688	7.7834394	-0.15521	0.8800839	0.95864	-6.423599
MIR632	0.0177451	6.9354363	0.1547333	0.8804491	0.95897	-6.423679
BMP2	0.0099656	6.7913479	0.1539462	0.881052	0.95948	-6.42381
ORC6	-0.015612	11.490969	-0.153891	0.8810939	0.95948	-6.42382
PTCRA	0.0102488	6.8421005	0.1536384	0.8812876	0.95948	-6.423862
ZDHHC8P1	0.0094142	7.0200231	0.153582	0.8813309	0.95948	-6.423871
MYBPHL	-0.010723	6.7362531	-0.153576	0.8813357	0.95948	-6.423872
GNB3	-0.010816	7.0776921	-0.153472	0.8814151	0.95948	-6.423889
DERL1	-0.009827	9.9310852	-0.153472	0.8814153	0.95948	-6.423889
MEGF6	-0.010162	6.7729476	-0.153419	0.8814559	0.95948	-6.423898
AIFM3	-0.013017	6.9970265	-0.153311	0.8815383	0.95948	-6.423916
LAMTOR4	-0.01231	11.273683	-0.15326	0.8815773	0.95948	-6.423924

GNGT1	0.0106035	6.7782528	0.153029	0.8817545	0.95955	-6.423963
PAQR8	-0.01095	7.8546723	-0.152999	0.8817775	0.95955	-6.423968
COPS3	0.0130972	11.706853	0.1529237	0.8818351	0.95955	-6.42398
TMOD2	0.0163886	8.0881148	0.1527343	0.8819802	0.95958	-6.424011
C1orf43	0.0100046	10.071755	0.1526953	0.8820101	0.95958	-6.424018
CADPS2	-0.016175	6.8237663	-0.152622	0.8820659	0.95958	-6.42403
MVB12B	-0.009746	6.8232802	-0.152435	0.8822096	0.9596	-6.424061
XRCC1	0.0129073	7.9374446	0.152422	0.8822195	0.9596	-6.424063
AGPAT4-IT1	0.0105801	6.9304715	0.1523148	0.8823016	0.9596	-6.42408
SLC29A4	-0.011711	6.8984353	-0.15222	0.882374	0.9596	-6.424096
C2orf54	0.0142369	6.8972438	0.1521756	0.8824082	0.9596	-6.424103
AHCTF1	-0.013681	8.7658638	-0.151832	0.8826717	0.95981	-6.42416
APPL1	-0.019454	8.5764632	-0.151574	0.882869	0.95995	-6.424202
NET1	0.0156939	8.5220469	0.1513626	0.8830312	0.96004	-6.424237
ZSCAN30	-0.011923	6.9225405	-0.15116	0.8831862	0.96004	-6.42427
MIR302C	-0.012083	6.9568206	-0.151032	0.8832845	0.96004	-6.424291
DLX4	0.0095207	6.8822081	0.1510136	0.8832986	0.96004	-6.424294
PCSK7	0.0171904	8.4858753	0.1509746	0.8833284	0.96004	-6.4243
TSPYL6	0.0128654	7.1852502	0.150918	0.8833719	0.96004	-6.424309
SRP14P1	0.0147938	11.304963	0.1508652	0.8834123	0.96004	-6.424318
LAPTM4A	-0.010575	8.4164083	-0.150368	0.8837934	0.96035	-6.424399
NCBP3	0.0136876	8.239335	0.1502613	0.8838751	0.96035	-6.424416
TDRD3	-0.012538	7.5004444	-0.150246	0.8838869	0.96035	-6.424419
COPB2	0.0143324	10.121851	0.1499812	0.8840898	0.9605	-6.424461
TIMP2	-0.010382	6.9081751	-0.149602	0.8843803	0.96074	-6.424523
DCAF12L2	0.0103905	6.8042022	0.1493225	0.8845946	0.9609	-6.424568
PDIA3P1	0.0109476	8.9791218	0.1490998	0.8847653	0.96096	-6.424604
TBC1D24	0.0114384	6.8876612	0.1490298	0.884819	0.96096	-6.424615
DNMBP-AS1	0.0100346	6.7461467	0.148976	0.8848603	0.96096	-6.424624
TRIM35	-0.013336	7.0000267	-0.148841	0.884964	0.96096	-6.424646
NT5C3B	0.0125008	8.5157641	0.1487833	0.885008	0.96096	-6.424655
SLC45A4	-0.011962	6.8969105	-0.148704	0.8850687	0.96096	-6.424668
ZCCHC6	-0.010272	7.5897896	-0.148584	0.8851604	0.96096	-6.424687
RABEP2	-0.010019	6.8640664	-0.14857	0.8851718	0.96096	-6.424689
GAK	0.0160064	10.816897	0.1482922	0.8853844	0.96111	-6.424734
OR52N5	0.0109535	7.0209885	0.1481963	0.885458	0.96112	-6.424749
RUSC1	-0.013584	9.2420463	-0.147902	0.8856835	0.9613	-6.424796
C17orf58	-0.011186	9.4323429	-0.147799	0.8857625	0.96131	-6.424813
TBL1Y	-0.010036	6.8419294	-0.147599	0.8859162	0.96141	-6.424845
RNU105C	-0.011974	7.0486989	-0.147361	0.8860981	0.96153	-6.424882
MRPL27	0.0094882	8.0726252	0.1472117	0.8862129	0.96153	-6.424906
TINAG	0.0145352	6.9185535	0.147178	0.8862387	0.96153	-6.424912
ADAM22	-0.009802	6.9224623	-0.147108	0.8862924	0.96153	-6.424923

DNAJB4	0.0120483	7.1083244	0.1469228	0.8864344	0.96161	-6.424952
PIWIL4	-0.009981	6.7994545	-0.146785	0.8865398	0.96165	-6.424974
LOC285696	-0.015992	7.2667762	-0.146461	0.8867883	0.96185	-6.425025
IRS2	-0.010826	6.840674	-0.146344	0.8868781	0.96187	-6.425044
ACOT8	-0.010158	7.629977	-0.146269	0.8869359	0.96187	-6.425056
TBC1D10C	-0.0145	8.7196777	-0.145834	0.8872695	0.96202	-6.425124
NUDT3	-0.014365	9.7163545	-0.145816	0.8872828	0.96202	-6.425127
GNAS-AS1	0.0097852	7.1389996	0.1457917	0.8873018	0.96202	-6.425131
ZNF507	0.0135498	7.3994758	0.1456956	0.8873755	0.96202	-6.425146
TUBA4A	-0.017135	10.475834	-0.145663	0.8874004	0.96202	-6.425151
EPHA3	-0.00887	6.8174783	-0.145345	0.8876447	0.96221	-6.425201
CLK3	-0.009057	8.2203093	-0.145119	0.8878176	0.96224	-6.425237
RAPSN	-0.010379	6.8301768	-0.144999	0.8879098	0.96224	-6.425256
CYP26A1	0.009575	6.8348969	0.1449918	0.8879154	0.96224	-6.425257
ROCK1	0.0103024	7.3036393	0.1449659	0.8879352	0.96224	-6.425261
AKAP7	-0.009098	6.7217059	-0.144717	0.8881259	0.96237	-6.4253
SSX3	0.0116256	7.0445838	0.1441729	0.8885435	0.96267	-6.425385
SORCS2	0.009721	6.7341136	0.1440979	0.8886011	0.96267	-6.425396
ZNF800	0.0211521	8.604205	0.143948	0.888716	0.96267	-6.42542
GRK2	0.015484	11.297322	0.1438939	0.8887576	0.96267	-6.425428
DNPH1	-0.010493	9.0125447	-0.143803	0.8888271	0.96267	-6.425442
FERD3L	0.012387	6.9590259	0.1437802	0.8888448	0.96267	-6.425446
MDH2	0.0120754	13.881145	0.1437572	0.8888624	0.96267	-6.425449
BCAP29	-0.011658	8.1095101	-0.143413	0.8891266	0.96289	-6.425503
SKIL	-0.012124	6.8728245	-0.143216	0.8892775	0.96291	-6.425533
COL20A1	0.0092222	7.0647059	0.1431634	0.889318	0.96291	-6.425541
ZNF449	-0.00945	6.8108517	-0.143122	0.8893495	0.96291	-6.425548
PCDHB4	0.0103994	6.7676318	0.142653	0.8897096	0.96316	-6.42562
AGL	-0.010948	7.7294939	-0.142623	0.8897325	0.96316	-6.425625
ATP6V0E2-A	0.012196	7.2198323	0.142572	0.8897718	0.96316	-6.425633
PLOD1	0.0155772	10.903193	0.1423833	0.8899166	0.9632	-6.425662
DCTN5	0.0126773	9.476109	0.1421974	0.8900593	0.9632	-6.42569
CGB8	0.0093769	6.9730857	0.1421789	0.8900735	0.9632	-6.425693
KLF7	-0.01498	6.9246817	-0.14212	0.8901187	0.9632	-6.425702
ALDH1B1	0.0124151	8.3633731	0.1420914	0.8901406	0.9632	-6.425707
CCDC28B	-0.010177	10.004362	-0.141739	0.890411	0.96342	-6.425761
VSIR	-0.009091	6.6955207	-0.141654	0.8904762	0.96342	-6.425774
EGOT	0.0128015	7.0442124	0.1414812	0.8906089	0.96349	-6.4258
PCDHGB6	0.0117494	7.5220155	0.1411057	0.8908971	0.96362	-6.425857
IL36RN	-0.012289	6.8077523	-0.14107	0.8909246	0.96362	-6.425863
FAM84B	-0.00878	6.7446434	-0.141039	0.8909481	0.96362	-6.425868
DRC7	0.0124511	7.0424448	0.1409778	0.8909952	0.96362	-6.425877
COL9A3	0.009126	6.822316	0.1406426	0.8912525	0.96381	-6.425928

MTMR1	-0.010791	7.2786075	-0.14055	0.8913239	0.96381	-6.425942
LCNL1	0.0113974	6.9705174	0.1403048	0.8915118	0.96381	-6.425979
ZNF793	-0.016952	7.0657638	-0.140281	0.8915297	0.96381	-6.425983
FOXP3	-0.017162	7.0006919	-0.140192	0.8915987	0.96381	-6.425996
SERPINE3	0.0117728	6.817558	0.1400551	0.8917035	0.96381	-6.426017
LDLRAD2	0.009725	6.8194639	0.1400184	0.8917317	0.96381	-6.426023
GNL1	0.0168185	9.0636665	0.1400139	0.8917351	0.96381	-6.426023
CACNA2D3	-0.008978	6.7241983	-0.139884	0.8918352	0.96381	-6.426043
OSBPL1A	-0.009534	6.8585039	-0.13972	0.8919607	0.96381	-6.426068
ZNF671	0.0112803	7.8217175	0.139719	0.8919615	0.96381	-6.426068
USP54	-0.010041	6.9396312	-0.139639	0.892023	0.96381	-6.42608
TMEM132B	0.0090146	7.0341491	0.1396043	0.8920496	0.96381	-6.426085
RBM3	0.0135216	8.2249293	0.1393041	0.89228	0.96381	-6.42613
NUDT4P1	0.0114666	6.8101291	0.1392035	0.8923573	0.96381	-6.426146
AVL9	0.0112884	7.6327453	0.1391398	0.8924062	0.96381	-6.426155
ARF4	0.0105103	10.576264	0.1390991	0.8924374	0.96381	-6.426161
PNPLA1	-0.009132	6.7601696	-0.138965	0.8925407	0.96381	-6.426182
LEKR1	0.0128411	6.8813815	0.1389553	0.8925478	0.96381	-6.426183
CX3CR1	0.0114237	6.9667544	0.1388108	0.8926588	0.96381	-6.426205
PTPRJ	-0.008703	6.9002424	-0.138626	0.8928005	0.96381	-6.426232
PIF1	-0.016144	7.6729746	-0.138609	0.8928141	0.96381	-6.426235
RASSF1	0.0124982	7.7703432	0.1386061	0.892816	0.96381	-6.426235
USP27X-AS1	-0.011484	7.0399753	-0.138443	0.8929413	0.96381	-6.42626
DLG4	-0.012331	7.6475563	-0.138415	0.8929627	0.96381	-6.426264
CCDC25	-0.011651	8.6364044	-0.138381	0.8929888	0.96381	-6.426269
ADARB2-AS	-0.009416	6.8758571	-0.138285	0.8930623	0.96381	-6.426283
YTHDC1	0.0101174	8.1453848	0.1382689	0.8930749	0.96381	-6.426286
SLC39A7	-0.009404	7.2009119	-0.138257	0.8930837	0.96381	-6.426287
LINC01538	0.0111799	6.9580758	0.1379525	0.8933179	0.96393	-6.426333
ERVW-1	0.0127023	6.983754	0.1379059	0.8933536	0.96393	-6.42634
USP1	0.0157544	8.6347558	0.1378548	0.8933929	0.96393	-6.426348
FGGY	-0.010362	7.5267134	-0.137709	0.8935048	0.96393	-6.426369
GREB1	0.0144758	7.0531876	0.1376087	0.8935818	0.96393	-6.426384
LRRC37A4P	0.0107262	7.0847883	0.1373686	0.8937662	0.96393	-6.42642
OLFML2A	0.0111883	6.821794	0.1372862	0.8938295	0.96393	-6.426432
KLF8	0.0107685	6.8189086	0.1372374	0.893867	0.96393	-6.426439
TMEM129	0.0139495	7.1652996	0.1370948	0.8939765	0.96393	-6.42646
ABHD18	-0.011317	7.4786959	-0.137051	0.8940103	0.96393	-6.426467
MORC4	-0.009026	6.8086486	-0.137009	0.8940421	0.96393	-6.426473
MIR144	-0.009511	6.8273808	-0.136955	0.8940842	0.96393	-6.426481
C3orf70	0.0098599	6.8397073	0.1368754	0.894145	0.96393	-6.426493
PHKG2	-0.011412	7.7990107	-0.136872	0.8941476	0.96393	-6.426493
NUPR1	-0.008628	6.8213246	-0.136826	0.8941832	0.96393	-6.4265

C6orf62	-0.009821	8.4040044	-0.136738	0.8942509	0.96393	-6.426513
CASC4	0.0160629	7.8554786	0.1365779	0.8943735	0.96398	-6.426537
CRHR1	-0.014486	7.2393172	-0.136453	0.8944692	0.96398	-6.426555
SCAMP1	0.0111577	8.5324809	0.1361165	0.8947279	0.96398	-6.426605
RAB6B	0.0164673	7.2368417	0.1361025	0.8947387	0.96398	-6.426607
RAB7B	-0.013522	6.752933	-0.136085	0.8947517	0.96398	-6.426609
SLCO4C1	-0.009807	6.9197684	-0.136065	0.8947677	0.96398	-6.426613
SPAST	-0.015884	8.0682524	-0.135998	0.8948187	0.96398	-6.426622
SCP2	-0.008775	6.8689085	-0.135988	0.8948267	0.96398	-6.426624
SLC16A3	0.0091856	6.6681221	0.1356907	0.895055	0.96415	-6.426667
KIAA1524	-0.011317	7.3217155	-0.135589	0.8951334	0.96417	-6.426682
BEND6	0.0093412	6.7625925	0.1353228	0.8953376	0.96431	-6.426721
AFF3	0.0107419	8.1153277	0.1352474	0.8953955	0.96431	-6.426732
ARFGEF3	0.0105509	6.8659531	0.1350284	0.8955637	0.96433	-6.426764
CLMN	0.0086485	6.8918071	0.1349729	0.8956064	0.96433	-6.426773
PFKM	-0.009525	10.653018	-0.134962	0.8956146	0.96433	-6.426774
CBS	-0.009746	10.31588	-0.134833	0.895714	0.96437	-6.426793
HDAC11	0.0107657	6.9159454	0.1346047	0.8958892	0.96448	-6.426826
MIF	-0.010945	13.319581	-0.134367	0.8960719	0.96451	-6.426861
ZNF514	0.0085274	6.8641593	0.1343535	0.8960822	0.96451	-6.426863
NKX2-2	0.0097825	6.8963179	0.1342459	0.8961649	0.96451	-6.426878
DCLRE1B	0.0128018	7.1636906	0.1342337	0.8961743	0.96451	-6.42688
SLC35F2	0.0128412	9.888404	0.1340176	0.8963403	0.96461	-6.426911
PIKFYVE	0.0093775	6.9123634	0.1339317	0.8964064	0.96461	-6.426924
VKORC1	-0.011609	9.787003	-0.133853	0.8964667	0.96461	-6.426935
SLC13A2	0.0136393	6.8858179	0.1334964	0.8967408	0.96465	-6.426987
SLC22A15	0.0095355	6.7323099	0.133484	0.8967504	0.96465	-6.426989
ELOVL2	-0.008159	6.7532934	-0.133449	0.8967774	0.96465	-6.426994
EXOSC10	0.0091017	9.9712318	0.1334149	0.8968035	0.96465	-6.426999
ADGRA2	-0.008857	6.7996653	-0.133286	0.8969026	0.96465	-6.427017
RTN4RL1	0.0097221	6.9288501	0.1332357	0.8969412	0.96465	-6.427024
FOXQ1	-0.008877	6.8023135	-0.133139	0.8970151	0.96465	-6.427038
PPIAL4C	-0.00884	6.8774221	-0.133115	0.8970341	0.96465	-6.427042
ZBTB46	0.0093245	6.7913759	0.1329306	0.8971756	0.96473	-6.427068
QRSL1	-0.01246	7.4192008	-0.132521	0.8974904	0.965	-6.427127
UBLCP1	-0.022955	8.5489563	-0.132267	0.8976856	0.96514	-6.427163
CBR3	-0.013978	7.0065473	-0.132137	0.8977854	0.96517	-6.427182
NEUROG3	-0.012285	6.9871502	-0.131988	0.8979004	0.96518	-6.427203
CCNB2	0.0138498	10.686191	0.1319506	0.8979287	0.96518	-6.427209
HSF2	-0.010469	8.9086786	-0.131714	0.8981107	0.96531	-6.427242
LBR	0.0153338	8.2494568	0.1316256	0.8981786	0.96531	-6.427255
C6orf47	0.0107588	8.3327572	0.1312685	0.898453	0.96544	-6.427306
KNCN	-0.010007	7.1205927	-0.131262	0.8984584	0.96544	-6.427307

HHEX	0.0103849	6.8319305	0.1312121	0.8984964	0.96544	-6.427314
RPL27	-0.008079	14.339484	-0.131128	0.8985607	0.96544	-6.427325
ABI3	0.0113341	8.8870322	0.1308117	0.8988042	0.96557	-6.42737
KIR2DL1	0.0083862	6.8600183	0.1307103	0.8988821	0.96557	-6.427385
SOAT1	0.0128165	7.4392917	0.1305047	0.8990402	0.96557	-6.427414
TMEM217	-0.010981	6.935508	-0.130456	0.8990774	0.96557	-6.427421
SPATA5	-0.01243	7.0020739	-0.130337	0.8991688	0.96557	-6.427437
CD53	0.0092782	10.030802	0.1303011	0.8991967	0.96557	-6.427442
LOC1001282	-0.009692	6.9988993	-0.130224	0.8992556	0.96557	-6.427453
C17orf47	0.0128256	7.0199795	0.1301511	0.899312	0.96557	-6.427464
ATP11B	0.0146654	7.7889855	0.1301393	0.899321	0.96557	-6.427465
RPS15	-0.013412	12.370692	-0.130109	0.8993446	0.96557	-6.427469
CLDN4	0.0138414	7.0778996	0.1297106	0.8996506	0.96582	-6.427525
MLXIPL	0.0089636	6.8179279	0.1296349	0.8997089	0.96582	-6.427536
TWIST1	0.0097296	6.8310296	0.1292693	0.89999	0.96598	-6.427587
PREX1	0.0128022	6.9550654	0.1292172	0.9000301	0.96598	-6.427594
TFAP2E	-0.009776	6.8052649	-0.129014	0.9001861	0.96598	-6.427623
HIST1H3H	-0.008343	6.9055075	-0.128972	0.9002183	0.96598	-6.427629
TOMM34	0.0164861	11.051779	0.1288971	0.9002762	0.96598	-6.427639
CNTLN	-0.009664	6.9828573	-0.128684	0.90044	0.96598	-6.427669
PHEX	-0.011627	6.8714799	-0.128627	0.9004841	0.96598	-6.427677
ALAD	-0.01077	7.661315	-0.128574	0.9005248	0.96598	-6.427684
MROH1	-0.012762	7.0738013	-0.128569	0.9005286	0.96598	-6.427685
SPIN2B	-0.008529	6.8260369	-0.128549	0.9005441	0.96598	-6.427688
CDYL2	0.0115744	6.983315	0.1282603	0.9007658	0.96598	-6.427728
SNORA36C	0.0098237	6.8761344	0.1282243	0.9007935	0.96598	-6.427733
PCDHB2	0.0086568	6.8341318	0.1281441	0.9008552	0.96598	-6.427744
DNMT3L	0.0090078	6.818126	0.128025	0.9009467	0.96598	-6.42776
KCTD12	-0.008674	6.8419712	-0.127911	0.9010346	0.96598	-6.427776
KDM1A	0.0178495	10.45051	0.1278219	0.901103	0.96598	-6.427788
ANKRD6	0.0092057	6.8153211	0.1277	0.9011967	0.96598	-6.427805
ZBTB49	0.0101865	7.2251183	0.1275837	0.9012861	0.96598	-6.427821
CMTM7	0.0080102	6.9435755	0.1274431	0.9013943	0.96598	-6.427841
FRMD7	-0.011609	6.865427	-0.127407	0.9014223	0.96598	-6.427846
CTPS2	0.0086832	8.2409431	0.1273639	0.9014552	0.96598	-6.427852
USP2	-0.009081	6.9227368	-0.127306	0.9014996	0.96598	-6.427859
ZHX3	0.0163129	7.9993042	0.127304	0.9015013	0.96598	-6.42786
CEACAM21	-0.010028	7.0584156	-0.127293	0.9015098	0.96598	-6.427861
FAM172A	-0.011282	7.5828855	-0.127231	0.9015578	0.96598	-6.42787
GPAT3	0.009011	6.8069633	0.1271248	0.9016391	0.96598	-6.427884
KIAA1429	-0.008919	8.4998898	-0.127076	0.9016765	0.96598	-6.427891
TTLL3	-0.008531	7.4184045	-0.126954	0.9017707	0.96598	-6.427908
HS3ST3A1	-0.011502	7.0036976	-0.126937	0.9017836	0.96598	-6.42791

ABL1	-0.01017	8.0291964	-0.126628	0.902021	0.96615	-6.427953
TACR2	0.0102371	6.9255617	0.1265652	0.9020695	0.96615	-6.427961
SPCS3	-0.00954	8.7834683	-0.126416	0.9021845	0.96616	-6.427982
SZT2	-0.007827	6.92262	-0.126214	0.9023394	0.96616	-6.428009
FRMD6	-0.009297	7.0617823	-0.126112	0.9024181	0.96616	-6.428023
AQP7P1	0.0148404	6.9369305	0.1260895	0.9024354	0.96616	-6.428026
RALGDS	-0.008882	8.6402429	-0.12602	0.9024887	0.96616	-6.428036
OTUD5	0.0120304	7.5783958	0.1259429	0.9025482	0.96616	-6.428046
BARX1	-0.008687	6.772979	-0.125911	0.9025729	0.96616	-6.428051
SOHLH2	-0.008302	6.856138	-0.125862	0.9026107	0.96616	-6.428057
COX10	-0.011636	10.083132	-0.125584	0.902824	0.96632	-6.428095
MEST	0.0078138	6.7314533	0.1253581	0.9029981	0.9664	-6.428126
RPS6KL1	-0.013097	7.1649921	-0.125282	0.9030563	0.9664	-6.428136
UBE2G1	-0.010467	9.7587589	-0.125224	0.903101	0.9664	-6.428144
LRRC3B	0.0084286	6.786467	0.125014	0.9032628	0.96641	-6.428172
DLX6-AS1	-0.008397	6.7619041	-0.1249	0.9033502	0.96641	-6.428188
MDGA1	0.0127619	6.8511685	0.1248843	0.9033625	0.96641	-6.42819
NDUFA10	0.0109366	9.5828747	0.1248208	0.9034114	0.96641	-6.428198
SLC26A8	0.0098799	6.8601217	0.1247839	0.9034398	0.96641	-6.428203
EDARADD	-0.010108	7.1309517	-0.124569	0.9036051	0.96652	-6.428232
ZKSCAN5	0.0119684	7.2820721	0.1244615	0.9036879	0.96653	-6.428247
BECN1	0.0114608	9.2994565	0.1243386	0.9037825	0.96656	-6.428263
PLSCR3	0.0102689	11.409054	0.1239623	0.904072	0.9668	-6.428314
TMEM189	0.0106014	8.2404071	0.1238838	0.9041324	0.9668	-6.428324
NCF1B	-0.012919	7.7448302	-0.123585	0.9043623	0.96697	-6.428364
FAM220A	0.0084161	8.3856596	0.1231245	0.9047166	0.96715	-6.428426
PARD3B	-0.008844	6.8373789	-0.123096	0.9047385	0.96715	-6.428429
ZFAS1	-0.01234	12.663181	-0.12307	0.9047588	0.96715	-6.428433
HBS1L	-0.00788	6.9163671	-0.123023	0.9047945	0.96715	-6.428439
IPO8	0.0083986	7.7287646	0.1228368	0.904938	0.96723	-6.428464
BMPR2	0.0088123	7.2595031	0.1226666	0.905069	0.96727	-6.428487
COLQ	0.0103999	7.0243885	0.1226163	0.9051078	0.96727	-6.428493
MED14	-0.007731	7.5991844	-0.122529	0.9051747	0.96727	-6.428505
CCDC85C	-0.009275	6.8690273	-0.12228	0.9053663	0.96734	-6.428538
SHE	-0.009388	6.8592495	-0.122239	0.9053984	0.96734	-6.428543
SLC22A9	0.0112956	6.7607891	0.1221947	0.9054322	0.96734	-6.428549
GPHB5	-0.008101	6.9258581	-0.122032	0.9055575	0.9674	-6.428571
SCO1	-0.013516	10.936655	-0.12188	0.9056745	0.96745	-6.428591
PCF11	0.0129033	8.3692717	0.1217944	0.9057404	0.96745	-6.428602
ZIC2	0.0075725	6.8419717	0.1214425	0.9060112	0.96767	-6.428648
OR10X1	-0.009449	6.8560925	-0.121069	0.9062984	0.9678	-6.428697
ADD2	-0.007671	6.8012936	-0.121035	0.9063249	0.9678	-6.428702
EHMT1	-0.008917	6.9732669	-0.12098	0.9063669	0.9678	-6.428709

MTSS1	0.0092226	7.44953	0.1209064	0.9064238	0.9678	-6.428718
LAMB1	-0.007767	6.8821164	-0.120832	0.9064812	0.9678	-6.428728
PLCL1	-0.012252	6.8652677	-0.120768	0.9065301	0.9678	-6.428736
RGP1	0.0076069	6.9191918	0.1206632	0.9066111	0.96782	-6.42875
CAV3	-0.01013	6.9694061	-0.120545	0.906702	0.96784	-6.428766
LSM10	-0.010567	9.8043905	-0.120424	0.9067953	0.96787	-6.428781
POLR2I	0.0156649	11.093197	0.1201346	0.907018	0.96795	-6.428819
CDC14B	-0.007376	6.8611615	-0.120129	0.9070224	0.96795	-6.42882
GPR179	-0.007914	6.872783	-0.12007	0.9070674	0.96795	-6.428827
GGNBP2	-0.011855	9.1917547	-0.119782	0.9072894	0.96812	-6.428865
SMARCA2	0.0081357	10.244497	0.1196466	0.9073937	0.96816	-6.428882
UROS	0.0116745	11.374669	0.1195329	0.9074812	0.96818	-6.428897
AFF1	0.0104378	7.0794636	0.1194268	0.9075629	0.9682	-6.428911
CYSRT1	-0.014568	7.3037024	-0.119264	0.9076885	0.96826	-6.428932
CST7	0.0086409	6.9943927	0.1186161	0.9081872	0.96868	-6.429015
RAB27A	-0.007366	6.837916	-0.118583	0.908213	0.96868	-6.429019
FIBP	-0.010968	9.1516135	-0.118033	0.9086365	0.96906	-6.42909
USP31	0.0126572	6.7796162	0.1178617	0.908768	0.96907	-6.429111
TOMM7	0.0088846	13.177298	0.11785	0.908777	0.96907	-6.429113
MAPK9	0.0082057	8.4144604	0.1177518	0.9088527	0.96908	-6.429125
LOC100129(	0.0157977	7.6446241	0.1175989	0.9089705	0.96913	-6.429145
GIMAP2	0.0082743	6.8196566	0.1174901	0.9090543	0.96915	-6.429159
LAMP2	-0.008967	8.7688384	-0.117279	0.9092171	0.9692	-6.429186
DTD1	0.0105558	8.9274901	0.117184	0.90929	0.9692	-6.429198
RFC2	0.0087476	7.7479843	0.1171729	0.9092985	0.9692	-6.429199
HAAO	0.0075606	6.9351063	0.1167783	0.9096025	0.96929	-6.429249
DHX35	0.0114984	8.31723	0.1167721	0.9096072	0.96929	-6.42925
OCIAD1	-0.013557	10.876199	-0.116747	0.9096266	0.96929	-6.429253
HGD	0.0075573	6.9175412	0.1165105	0.9098087	0.96929	-6.429283
GTF2H4	-0.008532	9.1855789	-0.116487	0.909827	0.96929	-6.429286
XKR8	0.0101142	6.9701246	0.1164864	0.9098272	0.96929	-6.429286
EPHB2	-0.00819	6.910724	-0.116384	0.9099064	0.96929	-6.429299
CCNI2	0.0102964	7.0182374	0.1163011	0.90997	0.96929	-6.429309
ELK4	-0.007689	7.1936237	-0.116113	0.910115	0.96929	-6.429333
IGFBP3	0.0083345	6.8059322	0.1160908	0.910132	0.96929	-6.429336
KIF23	-0.009458	8.0705675	-0.116088	0.9101341	0.96929	-6.429336
RGS3	-0.012838	6.9597742	-0.115963	0.9102308	0.96929	-6.429352
HHATL	-0.008312	6.9472245	-0.115937	0.9102502	0.96929	-6.429355
ZXDC	-0.009303	7.2437665	-0.115753	0.9103924	0.96937	-6.429378
SNX33	0.0077598	7.3245965	0.1151955	0.9108217	0.96976	-6.429448
MSH5	0.0080168	7.1985986	0.115103	0.9108929	0.96976	-6.429459
FHL2	-0.007104	6.8652922	-0.11472	0.9111883	0.97001	-6.429507
SSH3	0.0081894	6.8473367	0.1144732	0.9113781	0.97007	-6.429537

TMEM9	-0.007749	8.2531327	-0.1144	0.9114345	0.97007	-6.429546
ABCA9	-0.009833	6.9930187	-0.114385	0.9114461	0.97007	-6.429548
PLCG1	0.0076327	7.8552508	0.1141473	0.9116292	0.97019	-6.429578
TMEM144	-0.00956	6.7040507	-0.11384	0.9118661	0.97037	-6.429615
GEMIN4	0.0088391	11.112932	0.1136062	0.912046	0.97046	-6.429644
MAP3K4	0.009696	8.8877191	0.1134814	0.9121422	0.97046	-6.42966
FGF9	0.0105658	6.9155468	0.1134091	0.9121979	0.97046	-6.429668
ADPRHL1	-0.008769	6.9992451	-0.113393	0.9122106	0.97046	-6.42967
FUNDC2	-0.008602	6.8781774	-0.112746	0.912709	0.97092	-6.42975
CYB5B	-0.01025	12.014123	-0.112656	0.9127783	0.97092	-6.42976
GPD2	-0.00711	6.8528716	-0.112361	0.9130052	0.97109	-6.429796
ZCRB1	-0.010963	7.7334644	-0.111971	0.9133061	0.9713	-6.429844
HBB	-0.009173	6.9842475	-0.111855	0.9133952	0.9713	-6.429858
AMOTL1	0.0097247	6.8640601	0.1117775	0.9134553	0.9713	-6.429867
NAA50	-0.010218	8.2728204	-0.111762	0.913467	0.9713	-6.429869
CXorf21	-0.008099	6.9208099	-0.111307	0.9138176	0.9716	-6.429924
SAA1	-0.008319	6.8321587	-0.111076	0.9139959	0.97168	-6.429952
GSTTP1	-0.008144	6.7899305	-0.111043	0.9140214	0.97168	-6.429956
C2	0.0088978	6.8508312	0.1109573	0.9140874	0.97168	-6.429966
GATS	-0.008113	7.0195022	-0.110546	0.9144048	0.97185	-6.430015
BCLAF1	0.0116201	9.1462036	0.1105026	0.9144379	0.97185	-6.43002
RAP1GAP2	-0.010005	6.9050809	-0.110479	0.9144559	0.97185	-6.430023
JAM3	-0.007215	6.7484751	-0.110142	0.9147159	0.97201	-6.430063
LINC00305	-0.00852	6.7607263	-0.110121	0.9147321	0.97201	-6.430066
HSH2D	0.018473	8.9591077	0.110027	0.9148045	0.97201	-6.430077
LAT	0.0074818	6.9313017	0.1097046	0.9150531	0.97215	-6.430115
TRMT44	0.0075535	7.2904814	0.1096549	0.9150913	0.97215	-6.430121
HSPA8	-0.010871	13.555565	-0.109562	0.9151632	0.97215	-6.430132
ZNF20	-0.007745	7.9563905	-0.109517	0.9151979	0.97215	-6.430138
RIPK3	0.0105203	7.0665351	0.1092734	0.9153854	0.97228	-6.430167
EREG	-0.008294	7.0134911	-0.109182	0.9154559	0.97228	-6.430177
RPL13A	-0.010996	13.960127	-0.109044	0.9155619	0.97229	-6.430194
MRE11	-0.007945	7.4673585	-0.109	0.915596	0.97229	-6.430199
DRD3	0.008298	6.9522831	0.1086961	0.9158305	0.97247	-6.430235
FAHD1	-0.009764	9.0177857	-0.10847	0.9160048	0.97258	-6.430261
LY6E	-0.016619	7.7370217	-0.108352	0.9160956	0.97261	-6.430275
CR2	0.0070479	8.9875726	0.1081703	0.9162359	0.97268	-6.430296
TMEM176A	-0.007435	6.8450927	-0.108038	0.9163377	0.97269	-6.430312
TTC39B	0.0075579	6.9242081	0.1079819	0.9163812	0.97269	-6.430318
LOC1001309	0.0068123	6.876181	0.1078991	0.916445	0.97269	-6.430328
PABPN1L	-0.007057	6.9209634	-0.107566	0.9167019	0.97288	-6.430367
TCHP	-0.008471	7.3152985	-0.107482	0.9167663	0.97288	-6.430376
ZNF771	-0.007584	6.9648123	-0.107223	0.9169666	0.97288	-6.430407

ZNF124	0.006872	7.0609265	0.1072148	0.9169727	0.97288	-6.430408
NCK2	0.0067896	8.1594281	0.1071922	0.9169901	0.97288	-6.43041
EXOSC7	-0.009808	11.098146	-0.107045	0.9171036	0.97288	-6.430427
CCNYL1	0.007014	7.8525214	0.1070091	0.9171312	0.97288	-6.430431
BAMBI	0.0078105	7.4444565	0.1069514	0.9171757	0.97288	-6.430438
PARG	-0.008861	7.3020993	-0.106812	0.9172835	0.97288	-6.430454
JMJD7	-0.009323	6.899299	-0.106807	0.9172873	0.97288	-6.430455
ZBTB47	0.0076878	6.7566463	0.1062491	0.9177174	0.97318	-6.430519
ADAMDEC1	0.007285	7.332249	0.106224	0.9177367	0.97318	-6.430522
TMTC1	-0.007788	6.8176555	-0.10618	0.9177709	0.97318	-6.430527
UBAP1	-0.009897	8.9887303	-0.105912	0.9179774	0.97327	-6.430558
HIST2H3D	-0.008494	6.9912407	-0.105898	0.9179883	0.97327	-6.430559
CARD8	0.0081057	7.681727	0.1057301	0.9181176	0.97334	-6.430579
ELP2	-0.007988	9.4941259	-0.105564	0.9182455	0.97338	-6.430598
BCL7B	-0.007013	8.0030481	-0.105508	0.9182887	0.97338	-6.430604
DCAF1	-0.008134	7.7689363	-0.105398	0.918374	0.9734	-6.430617
SULF2	0.006773	6.7697489	0.1052167	0.9185136	0.9734	-6.430637
TCEANC2	-0.007931	7.4208283	-0.105209	0.9185195	0.9734	-6.430638
TPK1	-0.00792	7.0024641	-0.105106	0.9185987	0.9734	-6.43065
CCDC183	-0.008167	7.0822135	-0.105048	0.9186436	0.9734	-6.430656
ADCY10P1	-0.010259	6.9321711	-0.10452	0.9190506	0.9737	-6.430716
DCBLD1	0.0063659	6.7781272	0.1044669	0.9190919	0.9737	-6.430722
ZNF572	-0.012388	7.0936936	-0.104422	0.9191268	0.9737	-6.430727
GPR153	-0.009749	6.9668563	-0.104031	0.9194284	0.97395	-6.430771
ZNF596	0.0076932	6.8508343	0.1038896	0.9195373	0.97399	-6.430787
VEGFB	0.0082655	8.7645763	0.1036487	0.9197231	0.97412	-6.430814
CEACAM1	-0.008251	7.3247915	-0.103436	0.9198874	0.97415	-6.430838
STIM2	0.0078721	7.7268825	0.1034332	0.9198894	0.97415	-6.430838
MICALL2	0.0077127	6.9117808	0.1031166	0.9201336	0.97418	-6.430874
SOCS2	-0.008766	6.8823432	-0.103093	0.9201521	0.97418	-6.430877
CPSF7	-0.008908	6.9667385	-0.103061	0.9201761	0.97418	-6.43088
ABCD3	-0.00708	8.0040303	-0.102872	0.9203221	0.97418	-6.430901
RAB40C	0.0088966	9.4359839	0.1028557	0.9203349	0.97418	-6.430903
CAP1	-0.006394	12.334844	-0.102766	0.9204045	0.97418	-6.430913
PDCD2L	0.0072835	10.034912	0.1026859	0.9204659	0.97418	-6.430922
TBC1D8B	0.0071779	6.903463	0.1026479	0.9204952	0.97418	-6.430926
VWA8	-0.007666	8.3656334	-0.102618	0.9205182	0.97418	-6.430929
FAM212B	-0.007166	7.0723442	-0.102273	0.9207845	0.97439	-6.430968
HSDL1	0.0111029	7.5883982	0.1019754	0.921014	0.97451	-6.431
CHD1L	-0.01086	8.6980173	-0.101954	0.9210309	0.97451	-6.431003
G6PC	0.0077304	6.9655617	0.1017804	0.9211645	0.97456	-6.431022
PRDX4	-0.009154	11.529109	-0.101721	0.9212106	0.97456	-6.431029
HAUS4	0.0066645	8.9398979	0.1010956	0.921693	0.975	-6.431097

LRP5	0.0073773	6.759984	0.1007284	0.9219763	0.97523	-6.431137
PRR27	0.0069551	6.9409143	0.1005713	0.9220975	0.97527	-6.431154
RRAS	-0.010354	7.790072	-0.100309	0.9222996	0.97527	-6.431183
BCL2L12	-0.007877	9.3776995	-0.100258	0.9223392	0.97527	-6.431188
STX12	0.0107234	9.1870386	0.1002304	0.9223606	0.97527	-6.431191
CDC25C	-0.006738	7.7124807	-0.100213	0.9223742	0.97527	-6.431193
SENP8	0.0082033	6.7953893	0.1001637	0.9224121	0.97527	-6.431199
UBA52	0.008575	12.045851	0.0994802	0.9229396	0.9757	-6.431272
CYP11A1	-0.00935	7.1511503	-0.099363	0.9230298	0.9757	-6.431285
TP53BP1	0.0097715	8.7190414	0.0993133	0.9230684	0.9757	-6.43129
PIP5KL1	0.0081984	6.8890778	0.0991945	0.9231601	0.9757	-6.431303
LYL1	-0.012422	9.4942228	-0.099177	0.923174	0.9757	-6.431305
ZNF623	-0.010242	6.9649885	-0.09904	0.9232797	0.9757	-6.43132
SPRY4	-0.006492	6.8475353	-0.09891	0.9233797	0.9757	-6.431334
FUBP3	0.0082511	10.179317	0.0988737	0.9234077	0.9757	-6.431338
PSEN1	-0.006218	7.0210349	-0.098744	0.9235078	0.9757	-6.431351
CERS4	0.0098666	7.7002744	0.0985813	0.9236334	0.9757	-6.431369
PCNP	0.0122965	11.275051	0.0984812	0.9237107	0.9757	-6.431379
ASB8	-0.007875	8.4542041	-0.098321	0.9238343	0.9757	-6.431396
CAMK2B	0.0068359	6.8296138	0.0983153	0.9238387	0.9757	-6.431397
STK38	-0.006496	8.60499	-0.098224	0.9239089	0.9757	-6.431407
B3GALT4	-0.007894	6.7582697	-0.098127	0.9239841	0.9757	-6.431417
ADAMTSL2	0.0072858	6.7959165	0.098039	0.924052	0.9757	-6.431426
ANKRD18DP	0.0081388	6.8698385	0.0979318	0.9241347	0.9757	-6.431438
PDCD11	0.0097362	7.1595585	0.0979301	0.924136	0.9757	-6.431438
TBX3	0.0071228	6.8690374	0.0979027	0.9241572	0.9757	-6.431441
OR10Q1	-0.007654	6.8014953	-0.097856	0.9241935	0.9757	-6.431446
ALG10B	0.0081045	7.3165671	0.0977452	0.9242788	0.9757	-6.431458
METTL27	-0.008971	6.906172	-0.097734	0.9242873	0.9757	-6.431459
OR51B4	0.0067019	6.8941303	0.0973502	0.9245837	0.97594	-6.431499
NUP98	-0.007289	7.372397	-0.097202	0.9246983	0.97599	-6.431515
MOCS2	-0.011359	7.7245037	-0.09707	0.9248003	0.97603	-6.431529
LSM14B	0.0062747	6.8903031	0.0969503	0.9248924	0.97605	-6.431541
TIAM1	0.0063568	7.2139669	0.0967304	0.9250622	0.97613	-6.431564
IRX5	0.0066344	6.9017692	0.0966839	0.9250981	0.97613	-6.431569
OR4M1	0.0069743	6.9636311	0.096027	0.9256052	0.97656	-6.431638
GOLGA8A	-0.010433	6.8920957	-0.095985	0.9256373	0.97656	-6.431642
TIGIT	0.0060384	6.9091666	0.0958939	0.925708	0.97656	-6.431652
RETREG1	0.0069352	6.7344808	0.0954367	0.926061	0.9768	-6.431699
ZGPAT	0.0069966	8.1077396	0.0953936	0.9260943	0.9768	-6.431703
SERPINI2	0.0072911	6.7494611	0.0953317	0.9261421	0.9768	-6.43171
ZNF321P	0.0084146	6.9941767	0.0952553	0.9262011	0.9768	-6.431718
PIK3AP1	-0.013132	9.3018955	-0.095081	0.9263355	0.97685	-6.431736

NRXN1	-0.006192	6.821139	-0.094871	0.9264976	0.97685	-6.431757
LOC1001285	0.0065271	6.706474	0.094852	0.9265125	0.97685	-6.431759
LINC01949	-0.007027	6.9008957	-0.09457	0.9267301	0.97685	-6.431788
LOC401589	-0.006648	6.9445377	-0.094569	0.926731	0.97685	-6.431788
PRPS1L1	-0.007604	7.0179672	-0.094538	0.9267551	0.97685	-6.431791
CRX	-0.007906	7.0600525	-0.094479	0.9268005	0.97685	-6.431797
TRNP1	-0.00653	6.8134825	-0.094478	0.9268011	0.97685	-6.431797
CMBL	0.0061428	6.8254562	0.0944145	0.9268504	0.97685	-6.431804
DOCK2	0.0082863	11.259387	0.094177	0.9270338	0.9769	-6.431828
NCAN	0.0061821	7.4834098	0.0939257	0.9272278	0.9769	-6.431854
PRKCH	0.0097075	7.2252674	0.0938855	0.9272589	0.9769	-6.431858
EXOSC2	-0.008376	9.2877058	-0.093803	0.9273226	0.9769	-6.431866
SLC48A1	0.006364	7.5193322	0.0937535	0.9273608	0.9769	-6.431871
RTP1	-0.009353	6.9642797	-0.093709	0.9273955	0.9769	-6.431876
DDX3X	-0.008833	11.307436	-0.093589	0.9274875	0.9769	-6.431888
FAM19A4	-0.00839	6.955496	-0.093577	0.9274974	0.9769	-6.431889
PICK1	-0.007139	7.6251147	-0.093573	0.9275001	0.9769	-6.431889
IPW	-0.008467	6.9035028	-0.093469	0.9275805	0.97691	-6.4319
ZNF862	0.0070934	6.8017876	0.0932308	0.9277645	0.97696	-6.431924
PCDH7	0.0073049	6.8093996	0.0931136	0.927855	0.97696	-6.431936
RNF180	-0.007711	6.9242172	-0.093022	0.9279257	0.97696	-6.431945
GPC4	-0.006296	6.76695	-0.092935	0.9279932	0.97696	-6.431954
CRLF1	-0.007536	6.9818922	-0.092902	0.9280188	0.97696	-6.431957
TEX47	0.0081967	6.7480627	0.0928894	0.9280281	0.97696	-6.431958
OR7G1	0.0073158	6.9323305	0.092692	0.9281806	0.97703	-6.431978
ETS2	0.0062298	7.6699719	0.0926075	0.9282459	0.97703	-6.431987
TTTY15	0.0087226	7.254904	0.0925485	0.9282915	0.97703	-6.431993
DAP3	-0.00776	10.818887	-0.092292	0.9284898	0.97716	-6.432018
MAGOHB	-0.011712	7.9303717	-0.092186	0.9285712	0.97718	-6.432029
DOPEY1	-0.005886	7.1643829	-0.091702	0.928945	0.97736	-6.432077
AMER2	0.0104046	6.9353425	0.0915295	0.9290785	0.97736	-6.432094
ESRP2	0.0058228	6.8352944	0.0914714	0.9291234	0.97736	-6.4321
LSM2	-0.010772	11.850823	-0.091471	0.9291241	0.97736	-6.4321
OR11A1	0.0066115	6.926217	0.0914144	0.9291674	0.97736	-6.432106
VPS39	0.0097071	7.37423	0.0913822	0.9291923	0.97736	-6.432109
ZC3H12A	0.0074126	7.527611	0.0913528	0.929215	0.97736	-6.432112
FAM155A	0.0066426	6.8600823	0.0912101	0.9293253	0.97741	-6.432126
RPS25	-0.008226	14.541123	-0.09068	0.9297347	0.97777	-6.432178
DENND2C	-0.006751	7.0940923	-0.09045	0.9299127	0.97789	-6.4322
ZXDA	0.0060546	6.7277337	0.0901877	0.9301151	0.97797	-6.432226
HCK	-0.007608	6.9825955	-0.090106	0.9301782	0.97797	-6.432234
CNPY1	-0.007838	6.8287145	-0.090018	0.9302463	0.97797	-6.432243
ISM1	0.0130813	6.999649	0.0898972	0.9303395	0.97797	-6.432254

HNRNPA1L2	-0.007032	7.4716942	-0.089859	0.9303691	0.97797	-6.432258
MX1	-0.005878	6.7733596	-0.08982	0.9303991	0.97797	-6.432262
SRPK1	-0.010466	10.977315	-0.089511	0.930638	0.97813	-6.432292
ARSD	0.0059	6.8445853	0.0893589	0.9307554	0.97813	-6.432307
LINC00957	-0.01747	10.506968	-0.089328	0.9307796	0.97813	-6.43231
SMARCA5	0.0091212	8.6293232	0.089279	0.9308171	0.97813	-6.432314
LRRC8C	-0.007221	7.1567906	-0.088767	0.9312125	0.97842	-6.432364
OR10AD1	-0.006468	6.9888395	-0.088755	0.9312218	0.97842	-6.432365
REP15	-0.008109	6.9250867	-0.088591	0.9313486	0.97842	-6.432381
PCOLCE	-0.005725	6.924887	-0.088405	0.9314925	0.97842	-6.432398
MS4A4A	0.0063974	6.765323	0.0883285	0.9315516	0.97842	-6.432406
C19orf60	-0.008063	8.5889171	-0.088276	0.931592	0.97842	-6.432411
MTERF2	-0.007046	6.8432476	-0.088221	0.931635	0.97842	-6.432416
ANK2	-0.005663	6.9186871	-0.088128	0.9317066	0.97842	-6.432425
WRAP73	-0.010578	9.9664849	-0.088092	0.9317341	0.97842	-6.432428
FARSB	0.0075304	10.318718	0.0880558	0.9317622	0.97842	-6.432432
CXorf56	0.0075254	7.8245903	0.0879748	0.9318248	0.97842	-6.432439
PRR22	-0.006052	6.8068229	-0.087489	0.9322	0.9786	-6.432486
SMIM15	-0.006248	6.9134063	-0.08748	0.9322069	0.9786	-6.432486
GALNT4	-0.005653	7.1015854	-0.087454	0.9322276	0.9786	-6.432489
ABHD17B	-0.00644	7.7029944	-0.087398	0.9322706	0.9786	-6.432494
BEND7	0.0058486	6.9987505	0.0872308	0.9323998	0.97861	-6.43251
CHTF18	-0.008524	7.6834463	-0.087158	0.9324558	0.97861	-6.432517
TCP10L	-0.008396	7.0102463	-0.087031	0.9325543	0.97861	-6.432529
MYBPH	-0.005915	6.8358098	-0.087021	0.932562	0.97861	-6.43253
SLC25A38	0.0084414	8.512977	0.0869539	0.9326138	0.97861	-6.432536
QDPR	-0.005789	6.8292547	-0.086848	0.9326955	0.97863	-6.432546
SNORD83A	-0.006719	6.8317926	-0.086728	0.932788	0.97865	-6.432557
SNX13	-0.009313	7.9947079	-0.086449	0.9330038	0.97881	-6.432583
GEMIN7	-0.007585	7.003827	-0.086358	0.9330747	0.97881	-6.432592
TMEM51	0.0057105	6.8546691	0.0862353	0.9331691	0.97884	-6.432603
ADAMTS3	-0.009253	6.8322632	-0.086129	0.9332516	0.97886	-6.432613
GBGT1	0.0060053	6.9190803	0.0860086	0.9333443	0.97888	-6.432625
KCNJ15	0.0060388	6.8664778	0.0858539	0.9334639	0.9789	-6.432639
STAU2	-0.005886	8.4471713	-0.085734	0.9335567	0.9789	-6.43265
HMGA2	-0.0099	6.9932348	-0.085681	0.9335978	0.9789	-6.432655
IL9	0.0063133	6.8852074	0.085454	0.933773	0.9789	-6.432676
SLA	0.0065332	6.9324714	0.0853223	0.9338747	0.9789	-6.432688
CRYL1	-0.006042	7.2628106	-0.085302	0.9338906	0.9789	-6.43269
TCEA2	0.0069022	7.7813016	0.0852517	0.9339293	0.9789	-6.432695
LINC00461	0.0080201	6.7937907	0.0852365	0.933941	0.9789	-6.432696
MAGEL2	-0.007097	7.6214407	-0.085133	0.934021	0.9789	-6.432706
FBXL17	0.007009	7.062866	0.0851226	0.9340291	0.9789	-6.432707

DNAJB3	-0.007777	6.9453229	-0.084891	0.934208	0.97902	-6.432728
SIRPD	-0.006706	6.8930878	-0.084577	0.9344507	0.97919	-6.432757
YAF2	-0.005727	7.1894286	-0.084421	0.9345713	0.97919	-6.432771
LOC730202	0.006152	7.7157127	0.0844189	0.934573	0.97919	-6.432771
MYO18A	0.005877	7.1219367	0.084271	0.9346874	0.97924	-6.432785
TAZ	0.0060009	7.3333726	0.0839662	0.934923	0.97938	-6.432812
DHRS9	0.0057813	6.8047806	0.083895	0.934978	0.97938	-6.432819
DENND5A	0.0059485	6.7946069	0.0837627	0.9350803	0.97938	-6.432831
CNTFR-AS1	-0.005925	6.9767	-0.083746	0.9350933	0.97938	-6.432832
MILR1	0.0072013	8.1734284	0.0836446	0.9351716	0.97939	-6.432842
STAC2	0.0052061	6.8319132	0.0833758	0.9353794	0.97946	-6.432866
SGCE	0.0074738	9.2676428	0.0833747	0.9353802	0.97946	-6.432866
STRBP	-0.009394	9.5158416	-0.083263	0.9354666	0.97946	-6.432876
OR5D18	-0.007254	6.927609	-0.08322	0.9354997	0.97946	-6.43288
LACC1	0.0081957	7.1417473	0.0830525	0.9356293	0.97952	-6.432895
RGPD6	0.0099964	6.8230576	0.0828579	0.9357798	0.97961	-6.432912
VDR	-0.006365	6.9794141	-0.082747	0.9358655	0.97961	-6.432922
PRDM8	0.0053241	6.8823313	0.0826879	0.9359112	0.97961	-6.432928
KAZN	0.0053746	6.8626276	0.0825298	0.9360334	0.97966	-6.432942
NCMAP	-0.008314	7.1394981	-0.082149	0.9363281	0.97972	-6.432976
MTIF2	-0.006052	10.168643	-0.082082	0.9363799	0.97972	-6.432982
FMNL3	-0.006001	7.1948409	-0.081972	0.9364644	0.97972	-6.432991
TCEAL3	-0.00514	6.7372454	-0.081806	0.936593	0.97972	-6.433006
RNF121	-0.00562	8.2976183	-0.081553	0.9367885	0.97972	-6.433029
PTTG1IP	0.0063036	9.6679615	0.0814868	0.9368398	0.97972	-6.433034
NPAS1	-0.006934	8.2133872	-0.081477	0.9368475	0.97972	-6.433035
FAM136A	-0.009404	11.074671	-0.081457	0.9368632	0.97972	-6.433037
PARVA	0.0054443	6.8005659	0.0813713	0.9369291	0.97972	-6.433045
ESPNL	-0.005335	7.5422673	-0.081267	0.9370095	0.97972	-6.433054
PELI1	0.0090102	9.3210862	0.0812539	0.9370199	0.97972	-6.433055
TMEM63C	-0.008248	6.9714669	-0.08125	0.9370231	0.97972	-6.433055
WDR59	-0.006514	9.4898475	-0.081107	0.9371337	0.97972	-6.433068
MSX2P1	-0.007402	6.8605351	-0.081061	0.937169	0.97972	-6.433072
ZNF485	0.0056591	7.4801029	0.0810357	0.9371886	0.97972	-6.433074
KCNQ4	0.0061458	6.8333979	0.0810255	0.9371965	0.97972	-6.433075
KLF9	-0.005005	6.7908858	-0.080866	0.9373201	0.97972	-6.433089
OR6Y1	-0.006141	6.9229048	-0.080829	0.9373482	0.97972	-6.433092
ORAI3	0.0055954	6.8555673	0.0808155	0.9373589	0.97972	-6.433093
FGR	0.0063973	10.088457	0.0805393	0.9375724	0.97977	-6.433118
UCP3	-0.00527	6.879492	-0.08052	0.9375874	0.97977	-6.433119
SLC22A12	0.0062794	6.8306197	0.0804674	0.937628	0.97977	-6.433124
PIEZO2	0.0049829	6.886717	0.0804068	0.9376749	0.97977	-6.433129
DRAM1	-0.005288	6.7686424	-0.080243	0.9378013	0.9798	-6.433143

FAM3C	-0.008386	8.6171297	-0.080136	0.9378841	0.9798	-6.433153
MIP	-0.008276	6.9123024	-0.080029	0.9379671	0.9798	-6.433162
MFAP2	-0.006221	6.9388401	-0.07997	0.9380129	0.9798	-6.433167
CAMK1D	0.0058621	6.9338748	0.0798326	0.938119	0.9798	-6.433179
ZNF155	0.0063544	6.9208287	0.0797392	0.9381912	0.9798	-6.433187
SNORD67	0.0075524	6.9684109	0.0796859	0.9382324	0.9798	-6.433192
PARD6A	0.0057921	8.4427039	0.0796709	0.938244	0.9798	-6.433193
SNRK	0.0055812	8.4346555	0.0795211	0.9383598	0.97985	-6.433206
FRAS1	0.0049798	6.8549533	0.0793455	0.9384956	0.9799	-6.433221
ALS2CL	-0.006101	6.788119	-0.079241	0.9385762	0.9799	-6.43323
UBOX5	0.0052311	7.0319028	0.0791214	0.9386689	0.9799	-6.43324
F2	-0.006824	6.9611702	-0.079106	0.9386808	0.9799	-6.433241
DIDO1	-0.0058	7.3054218	-0.079019	0.9387481	0.9799	-6.433249
AVP	0.0058509	6.9600191	0.0788289	0.9388951	0.97999	-6.433265
PUS10	-0.005953	7.7063702	-0.078398	0.9392282	0.98011	-6.433302
REPS2	0.0052279	6.7904893	0.0783926	0.9392326	0.98011	-6.433302
CEP128	-0.011649	7.5863713	-0.078206	0.9393769	0.98011	-6.433318
LEXM	0.0064097	7.2240819	0.0782043	0.9393782	0.98011	-6.433318
NR2E1	-0.007455	7.0250598	-0.07811	0.9394508	0.98011	-6.433326
PTPN14	0.0052184	6.7755862	0.0780712	0.9394811	0.98011	-6.433329
SLC2A14	0.0053573	6.8819223	0.0780071	0.9395307	0.98011	-6.433335
ZNF524	0.0054101	7.5922378	0.0779367	0.9395851	0.98011	-6.433341
SSH1	0.0067048	6.962034	0.0777778	0.9397081	0.98011	-6.433354
MIR373	0.0050629	7.1640699	0.0777557	0.9397252	0.98011	-6.433356
TRIM66	-0.005774	8.3619567	-0.077728	0.9397467	0.98011	-6.433358
C12orf57	-0.007008	9.5837351	-0.077436	0.939972	0.98019	-6.433383
SRSF1	0.0096039	11.970402	0.0774143	0.9399892	0.98019	-6.433385
ADPRH	0.0049732	7.4784067	0.0773522	0.9400372	0.98019	-6.43339
RAD50	-0.009481	8.22415	-0.077282	0.9400912	0.98019	-6.433396
C14orf1	0.005406	6.8753622	0.0768274	0.9404432	0.98048	-6.433434
SLCO4A1-AS	-0.005836	6.8390935	-0.076518	0.9406823	0.98066	-6.433459
TIAM2	0.0064844	8.1661399	0.0763954	0.9407773	0.98069	-6.43347
DLAT	-0.006905	9.8191049	-0.075903	0.9411579	0.98101	-6.43351
MATK	0.0047729	6.9999163	0.0757769	0.9412558	0.98101	-6.43352
GLE1	-0.005039	9.2562206	-0.075744	0.9412815	0.98101	-6.433523
SETD3	-0.005616	8.7324941	-0.075429	0.9415248	0.98112	-6.433549
UNC5CL	-0.004934	6.7969861	-0.075385	0.9415592	0.98112	-6.433553
AATK	0.0055582	7.2817424	0.0753076	0.9416188	0.98112	-6.433559
CAPN3	-0.005011	6.8375651	-0.07525	0.9416634	0.98112	-6.433564
ATP11A	-0.00752	7.022976	-0.074952	0.9418941	0.98123	-6.433588
OSCAR	-0.004861	6.8130062	-0.074924	0.9419159	0.98123	-6.43359
LAMB2P1	0.0051088	6.8315689	0.0747897	0.9420195	0.98123	-6.433601
TIGD5	0.0083512	9.2351349	0.0747685	0.9420359	0.98123	-6.433603

RTL8C	0.0058258	7.0041192	0.074659	0.9421206	0.98125	-6.433612
FAM86C2P	0.0053985	8.625901	0.0743388	0.9423684	0.98144	-6.433637
DNAJC5	0.0062197	7.5861647	0.0739251	0.9426884	0.98166	-6.433671
NDUFAF1	-0.005586	9.0817975	-0.073806	0.9427808	0.98166	-6.43368
RABEP1	-0.00819	9.7378645	-0.073796	0.9427882	0.98166	-6.433681
CCR6	0.0049959	9.1771594	0.0735529	0.9429764	0.98175	-6.4337
INSC	0.0051512	6.8403091	0.0735185	0.943003	0.98175	-6.433703
BRMS1L	0.0049515	7.6644343	0.0732382	0.9432199	0.9819	-6.433725
DDX3Y	-0.009168	7.2537022	-0.073155	0.943284	0.9819	-6.433732
MTRF1L	0.0068635	8.8319845	0.0730506	0.943365	0.98192	-6.43374
MARCO	0.0062983	6.9626734	0.072824	0.9435404	0.98199	-6.433758
ITSN2	0.0054825	6.9740097	0.0727768	0.9435769	0.98199	-6.433762
KIAA0825	-0.004754	6.7829839	-0.072586	0.9437245	0.98199	-6.433777
CAVIN3	0.0054021	6.9294607	0.0723176	0.9439322	0.98199	-6.433798
IRAK2	0.004863	6.8565959	0.0722793	0.9439619	0.98199	-6.433801
STYX	-0.004758	7.0037252	-0.072255	0.943981	0.98199	-6.433803
TOM1	0.0055415	7.8582687	0.0722492	0.9439852	0.98199	-6.433803
AIF1L	0.0050223	6.9424988	0.0721762	0.9440417	0.98199	-6.433809
NAP1L3	0.0051796	6.8929111	0.0720963	0.9441035	0.98199	-6.433815
TMEM71	-0.005006	6.8131022	-0.072021	0.9441615	0.98199	-6.433821
MIR34A	-0.00495	6.8187251	-0.071994	0.9441823	0.98199	-6.433823
ST6GALNAC	0.0053242	6.8158317	0.0718644	0.9442829	0.98199	-6.433833
NXF3	-0.006089	6.8936689	-0.071826	0.9443123	0.98199	-6.433836
ZNF510	0.0047381	6.8699117	0.0717385	0.9443804	0.98199	-6.433843
MAS1L	0.0059177	6.8415323	0.0716482	0.9444502	0.98199	-6.43385
ANKZF1	0.0057643	7.2875678	0.071528	0.9445432	0.98202	-6.433859
HIST2H2BF	-0.005024	6.9253649	-0.071245	0.9447623	0.98218	-6.433881
DERA	0.00759	11.142372	0.0710034	0.9449492	0.9823	-6.4339
NECAB3	0.004783	7.4765077	0.0707844	0.9451186	0.98241	-6.433917
MCAT	0.0049032	8.0812892	0.0705084	0.9453323	0.98256	-6.433938
LCORL	0.0047087	6.9007993	0.0703965	0.9454189	0.98258	-6.433946
RNF170	0.0066788	7.1136011	0.0702775	0.945511	0.98261	-6.433955
TMEM170B	-0.013	8.3036194	-0.070145	0.9456131	0.98264	-6.433965
EDC4	-0.006502	9.7536423	-0.069937	0.9457744	0.98274	-6.433981
NDUFA7	-0.007891	10.149242	-0.069583	0.9460487	0.98289	-6.434008
MYL6B	0.0066922	11.245129	0.0695785	0.9460519	0.98289	-6.434008
CITED2	0.0050271	8.6646598	0.0692819	0.9462815	0.98306	-6.43403
GHSR	-0.004707	6.8312258	-0.069113	0.9464122	0.98312	-6.434043
TBC1D19	-0.00667	7.5443557	-0.068986	0.9465108	0.98315	-6.434053
FLJ44635	-0.006324	6.9371169	-0.068799	0.9466553	0.98315	-6.434067
RTF1	0.006396	7.408846	0.0687866	0.9466649	0.98315	-6.434067
AFG3L1P	-0.004932	7.3728786	-0.068735	0.9467051	0.98315	-6.434071
SLC2A6	0.007027	9.9428012	0.0684695	0.9469103	0.98323	-6.434091

DGKG	0.0046118	6.8337563	0.0684488	0.9469263	0.98323	-6.434093
ITM2A	-0.004843	6.9100366	-0.068352	0.9470014	0.98323	-6.4341
COASY	-0.005227	9.1878156	-0.068116	0.9471838	0.98323	-6.434117
FAM129B	-0.004475	6.8740005	-0.068096	0.9471997	0.98323	-6.434119
TERB2	-0.005324	6.9067839	-0.067974	0.9472939	0.98323	-6.434128
S1PR1	-0.006326	7.2959717	-0.067942	0.947319	0.98323	-6.43413
CPNE8	0.0043259	6.7421876	0.0677604	0.9474592	0.98323	-6.434143
CCDC26	-0.005315	6.9967603	-0.067741	0.9474742	0.98323	-6.434145
PDE4D	0.006026	7.3174036	0.0676875	0.9475156	0.98323	-6.434149
ATG2B	0.005031	6.9766256	0.0676768	0.9475239	0.98323	-6.434149
H1F0	-0.005733	6.7948459	-0.06727	0.9478391	0.98348	-6.434179
PEX5L	0.0045118	6.8771061	0.0671923	0.947899	0.98348	-6.434185
ACAP2	-0.006778	7.8777211	-0.066983	0.9480611	0.98358	-6.4342
LOC440313	-0.005667	6.9966491	-0.06672	0.9482648	0.98369	-6.434219
SNX12	0.0064949	8.2024411	0.0665981	0.9483589	0.98369	-6.434228
LOC374443	-0.008259	7.4254829	-0.066498	0.9484361	0.98369	-6.434235
RPL27AP6	-0.005162	14.347171	-0.066494	0.9484399	0.98369	-6.434235
CYP27A1	0.0072785	6.9695032	0.0662354	0.9486397	0.98377	-6.434254
MAFF	0.0042132	7.0006335	0.0662151	0.9486554	0.98377	-6.434255
DOK7	-0.005123	6.8024855	-0.065944	0.9488656	0.98381	-6.434275
PRKAA1	0.0081276	8.3226629	0.0658309	0.9489529	0.98381	-6.434283
CNIH4	-0.016085	10.34583	-0.065815	0.9489652	0.98381	-6.434284
PRPF38A	-0.00422	8.4164661	-0.065757	0.9490102	0.98381	-6.434288
EPOR	-0.004484	7.3220175	-0.065656	0.9490883	0.98381	-6.434295
TTC39C	-0.004733	6.7875527	-0.065594	0.9491363	0.98381	-6.4343
DNAH5	0.0053343	6.7962543	0.0654467	0.9492503	0.98381	-6.43431
CDC42EP1	-0.004782	6.8475386	-0.065385	0.949298	0.98381	-6.434315
MAGEA4	0.0041703	6.8234304	0.0653836	0.9492992	0.98381	-6.434315
NDUFAF3	-0.004725	8.447766	-0.065153	0.9494774	0.98393	-6.434331
FARP2	-0.005432	7.1622953	-0.064763	0.9497793	0.98412	-6.434358
KIAA0753	0.0051496	7.6577019	0.0647054	0.9498243	0.98412	-6.434362
PODXL2	-0.005143	6.7600658	-0.064646	0.9498706	0.98412	-6.434367
MIR339	-0.007336	7.1948247	-0.064421	0.9500443	0.9842	-6.434382
SLC5A9	-0.004836	6.8817979	-0.06438	0.9500765	0.9842	-6.434385
TBX21	-0.005367	7.6630417	-0.06411	0.9502854	0.98434	-6.434404
MIR129-2	0.0047814	7.3231683	0.0638415	0.9504932	0.98449	-6.434423
MRPL53	0.0072965	9.1043512	0.0637213	0.9505862	0.98452	-6.434431
RAB11B	-0.004392	7.0677359	-0.063436	0.9508071	0.98453	-6.43445
11-Sep	-0.005946	9.2979347	-0.063409	0.9508278	0.98453	-6.434452
NEBL	0.005874	6.8931186	0.0634071	0.9508295	0.98453	-6.434452
C12orf65	0.0053589	8.9522658	0.0632557	0.9509467	0.98453	-6.434463
JPT1	-0.003954	9.8569437	-0.06321	0.9509818	0.98453	-6.434466
UNC13D	-0.005058	6.9388756	-0.063169	0.9510143	0.98453	-6.434469

LDLRAP1	0.0041956	6.8317767	0.0630731	0.9510882	0.98453	-6.434475
CDC6	-0.004972	7.3864755	-0.062701	0.9513762	0.98453	-6.434501
ACSM6	0.0041012	6.8368065	0.0626676	0.9514021	0.98453	-6.434503
ZNF436	0.0040584	7.256577	0.0625629	0.9514832	0.98453	-6.43451
MPZL1	0.0047025	7.9921178	0.0625435	0.9514983	0.98453	-6.434511
ZNF107	0.0050839	6.8935963	0.0625319	0.9515072	0.98453	-6.434512
CXCL10	0.0070743	10.494426	0.0625282	0.9515101	0.98453	-6.434512
DKKL1	-0.004523	6.9281056	-0.062409	0.951602	0.98453	-6.43452
COMMD9	-0.004692	9.4723357	-0.062321	0.9516703	0.98453	-6.434526
BLOC1S2	-0.004031	6.9859902	-0.06231	0.9516791	0.98453	-6.434527
DCTN3	-0.00503	8.5795324	-0.061829	0.9520513	0.98471	-6.434559
NRBF2	-0.00495	8.3504579	-0.061751	0.9521119	0.98471	-6.434565
ADGRE2	0.0039351	6.9144084	0.0616724	0.9521728	0.98471	-6.43457
NOTUM	-0.004046	6.9295966	-0.061656	0.9521851	0.98471	-6.434571
NCAM2	0.0043714	6.7288873	0.0616531	0.9521878	0.98471	-6.434571
ACTR3B	0.004718	7.9341711	0.0614593	0.9523379	0.98479	-6.434584
ZNF286B	-0.005038	6.8085832	-0.061288	0.9524706	0.98479	-6.434596
FCGR1B	-0.003876	6.7453655	-0.061288	0.9524707	0.98479	-6.434596
C11orf74	-0.00442	6.7345552	-0.061127	0.9525948	0.98485	-6.434606
UCKL1	-0.008059	9.8852495	-0.061038	0.9526638	0.98485	-6.434612
SART3	0.0045247	7.6035987	0.0608851	0.9527825	0.9849	-6.434622
RASIP1	0.0040318	6.7973712	0.0603365	0.9532074	0.98517	-6.434658
PRDM2	-0.003907	6.9726456	-0.060313	0.9532253	0.98517	-6.43466
LOC642947	-0.007581	12.750704	-0.060286	0.9532467	0.98517	-6.434662
HHIPL1	0.0044321	6.9072922	0.0601583	0.9533454	0.98521	-6.43467
GOSR1	-0.005059	7.2238195	-0.059763	0.9536512	0.98542	-6.434695
EIF3H	-0.005815	11.435971	-0.059722	0.9536833	0.98542	-6.434698
CYP26C1	-0.004032	6.9102207	-0.059618	0.953764	0.98543	-6.434705
OR6P1	-0.004526	6.8043451	-0.059397	0.953935	0.98554	-6.434719
INTS1	0.0058404	9.615977	0.059207	0.9540822	0.98557	-6.434731
ELAC1	0.0039217	7.2043418	0.0590609	0.9541954	0.98557	-6.434741
KMO	-0.005058	7.6135889	-0.05903	0.9542191	0.98557	-6.434743
NRG1	0.0043755	6.9446162	0.059005	0.9542387	0.98557	-6.434744
ANKRD35	-0.004676	7.0173826	-0.058815	0.9543858	0.98565	-6.434756
SSTR1	0.0063837	6.990089	0.0586382	0.9545228	0.98572	-6.434768
DLL1	-0.003969	6.7777167	-0.058526	0.9546098	0.98572	-6.434775
FZD2	-0.005035	7.0882782	-0.05843	0.9546844	0.98572	-6.434781
ECD	0.0049641	8.6167184	0.0582496	0.9548238	0.98572	-6.434792
GOLGA7B	-0.004098	7.306233	-0.05811	0.9549317	0.98572	-6.434801
KIF20B	0.0082648	8.9262064	0.0580305	0.9549935	0.98572	-6.434806
IZUMO1	0.004253	6.7055298	0.058024	0.9549985	0.98572	-6.434806
RGPD5	-0.003944	6.8879313	-0.057927	0.9550736	0.98572	-6.434812
BDH1	0.0053634	7.5035865	0.0575915	0.9553335	0.98572	-6.434833

SNX24	0.0036839	6.7774762	0.0575413	0.9553724	0.98572	-6.434837
TNC	-0.004524	7.277135	-0.057482	0.9554183	0.98572	-6.43484
AR	0.0040132	6.8730205	0.0574034	0.9554793	0.98572	-6.434845
PDP1	-0.006355	7.1896875	-0.057288	0.9555685	0.98572	-6.434852
OTOR	-0.005881	6.9223648	-0.057243	0.9556034	0.98572	-6.434855
C11orf71	0.0046995	7.0948099	0.0571787	0.9556533	0.98572	-6.434859
LYPD6B	0.0035136	6.9218581	0.0571772	0.9556544	0.98572	-6.434859
TSPYL4	0.0053379	7.203276	0.0571661	0.955663	0.98572	-6.43486
GLYCAM1	0.0039417	6.8743328	0.0571521	0.9556739	0.98572	-6.434861
SLC31A2	-0.004677	7.3064474	-0.057074	0.9557345	0.98572	-6.434866
FLRT2	0.0043276	6.9097947	0.0569784	0.9558085	0.98573	-6.434871
GPR176	0.0073606	6.9965059	0.0567301	0.9560008	0.98582	-6.434887
OR2T11	0.0037407	6.9073786	0.0566894	0.9560323	0.98582	-6.434889
DGKA	-0.005046	7.4080422	-0.056536	0.956151	0.98587	-6.434899
ZNF276	0.0039725	7.0527698	0.056343	0.9563007	0.98596	-6.43491
RNF141	0.0062332	7.6814216	0.0562236	0.9563932	0.98598	-6.434918
GPKOW	0.0058124	8.0908743	0.0561117	0.9564798	0.986	-6.434925
KYAT3	-0.004315	7.8422791	-0.055834	0.9566949	0.98615	-6.434941
C1orf162	0.0038112	7.2595226	0.0557362	0.9567708	0.98616	-6.434947
RNF25	0.0047264	7.4682119	0.0555635	0.9569046	0.98619	-6.434958
KCNT2	0.004501	6.7941857	0.0555324	0.9569287	0.98619	-6.43496
CTIF	-0.0034	6.7655681	-0.055365	0.9570585	0.98621	-6.43497
TSPAN7	-0.003704	6.7650907	-0.055323	0.9570905	0.98621	-6.434972
ZKSCAN4	0.0061736	7.5059988	0.0552206	0.9571702	0.98623	-6.434978
PRDM7	-0.005223	6.8690449	-0.055011	0.957333	0.98627	-6.434991
CILP	-0.004038	6.7737762	-0.054989	0.9573494	0.98627	-6.434992
ANG	0.0042699	7.4836591	0.0546948	0.9575776	0.98638	-6.43501
ST3GAL2	-0.00511	8.1032798	-0.054652	0.9576111	0.98638	-6.435012
EXOC4	0.0047238	8.1267364	0.0545892	0.9576594	0.98638	-6.435016
ZNF219	0.0051607	7.0293335	0.0544242	0.9577872	0.98644	-6.435026
CETN1	0.0038696	6.906171	0.0537388	0.9583183	0.98687	-6.435066
UTP23	0.0042841	7.4431185	0.0536449	0.958391	0.98687	-6.435071
THAP8	-0.004158	6.9082686	-0.053624	0.9584074	0.98687	-6.435072
NRG3	0.00412	6.9151416	0.0532031	0.9587333	0.98701	-6.435097
LRP3	-0.003845	6.7439534	-0.053123	0.9587955	0.98701	-6.435101
SMC4	0.0056484	8.3318443	0.0531215	0.9587966	0.98701	-6.435101
IGFBP7	-0.004459	6.9268816	-0.052984	0.9589027	0.98701	-6.435109
KLK10	-0.004678	7.1537298	-0.052734	0.9590971	0.98701	-6.435124
C1orf35	-0.005478	8.0129224	-0.052725	0.9591041	0.98701	-6.435124
UGCG	0.005022	7.9363549	0.0526974	0.9591252	0.98701	-6.435126
LOC401261	-0.006895	7.7318445	-0.05268	0.9591385	0.98701	-6.435127
SLC6A7	0.0037376	6.8845387	0.0526205	0.9591847	0.98701	-6.43513
BGLAP	0.006261	6.9900849	0.0525807	0.9592156	0.98701	-6.435132

STARD13	-0.003339	6.8078909	-0.052488	0.9592872	0.98701	-6.435138
WT1-AS	0.0033506	6.7400248	0.0520948	0.9595921	0.98726	-6.43516
UCHL5	0.0059839	9.6810221	0.0519931	0.9596709	0.98727	-6.435166
LILRB4	-0.003279	6.8060205	-0.05175	0.9598594	0.98739	-6.435179
CCNO	0.0035862	6.8999118	0.0514218	0.9601136	0.98759	-6.435198
HOMER3	0.004599	6.7903038	0.0510178	0.9604267	0.98774	-6.43522
H1FNT	-0.003476	6.8549478	-0.051002	0.9604392	0.98774	-6.435221
ZSCAN22	-0.00375	6.8435705	-0.050967	0.9604658	0.98774	-6.435223
RIMKLA	0.0031021	7.231899	0.0507515	0.960633	0.98784	-6.435235
PROCA1	0.0042366	7.0012116	0.0505939	0.9607552	0.9879	-6.435243
PPIEL	-0.003356	6.9074951	-0.050176	0.9610789	0.98816	-6.435266
PAM	0.0053604	8.9103051	0.0498701	0.9613161	0.98821	-6.435283
ECI1	0.0031045	9.2481393	0.0497517	0.9614079	0.98821	-6.435289
CHEK1	-0.004879	9.0749004	-0.049748	0.9614106	0.98821	-6.435289
TREX1	0.0037216	6.9365711	0.0496543	0.9614833	0.98821	-6.435294
CLTCL1	-0.003247	6.8888668	-0.049638	0.9614962	0.98821	-6.435295
SNORA71C	0.0037173	6.888983	0.0494047	0.9616768	0.98821	-6.435308
MGAT2	0.0039264	8.4571203	0.049402	0.9616789	0.98821	-6.435308
SERPINA1	-0.003184	6.8481036	-0.049333	0.9617326	0.98821	-6.435312
METTL7B	0.0034149	6.8097372	0.049311	0.9617494	0.98821	-6.435313
OR9Q2	0.0045394	6.8701069	0.0492423	0.9618026	0.98821	-6.435316
LINC01102	0.0048167	7.0689074	0.0487432	0.9621895	0.98854	-6.435343
MREG	-0.003054	7.8670615	-0.0482	0.9626107	0.9888	-6.435371
AOC1	0.0031185	6.8184692	0.0481947	0.9626145	0.9888	-6.435372
RER1	-0.003192	8.8713515	-0.048075	0.962707	0.9888	-6.435378
POMT2	0.003851	7.8481889	0.0480673	0.9627133	0.9888	-6.435378
PAN3	-0.004627	8.9156125	-0.047845	0.9628853	0.98887	-6.43539
PRADC1	0.003735	8.7982535	0.047801	0.9629197	0.98887	-6.435392
MAP3K14-AS	-0.003381	6.7913533	-0.047704	0.9629952	0.98888	-6.435397
TBC1D3C	-0.004575	6.9042304	-0.046988	0.9635496	0.9893	-6.435434
TICAM2	0.003853	7.8571706	0.0466961	0.9637761	0.9893	-6.435449
SMARCD3	0.0036335	7.2525775	0.0466786	0.9637897	0.9893	-6.43545
INSIG2	-0.004405	7.7769245	-0.046452	0.9639657	0.9893	-6.435461
SPTLC1	0.0033705	8.6701681	0.046386	0.9640165	0.9893	-6.435464
ZCCHC17	0.0031967	9.3006625	0.0463637	0.9640338	0.9893	-6.435465
ZNF706	0.0037786	7.6762899	0.0463193	0.9640682	0.9893	-6.435468
FANCF	0.0035389	7.021221	0.0462742	0.9641032	0.9893	-6.43547
TMEM150C	0.0036307	6.8740092	0.0462435	0.9641269	0.9893	-6.435471
CISD3	0.0048485	7.1396062	0.046222	0.9641436	0.9893	-6.435473
MAPT-AS1	0.0041524	6.9478821	0.0459827	0.9643291	0.9893	-6.435484
OR1F2P	-0.003796	6.9310779	-0.045962	0.9643454	0.9893	-6.435486
FBXO48	-0.00298	6.86238	-0.045885	0.9644051	0.9893	-6.435489
ARHGAP10	0.0044509	7.7807372	0.0458373	0.9644418	0.9893	-6.435492

IRS4	-0.003274	6.9212913	-0.045771	0.9644931	0.9893	-6.435495
SCAND2P	0.0028066	6.9541821	0.0457647	0.964498	0.9893	-6.435495
PRSS27	0.0031816	6.7685097	0.0456912	0.964555	0.9893	-6.435499
ANTXR1	0.0030363	6.868489	0.0455773	0.9646434	0.98931	-6.435505
MIR7-3HG	-0.004984	8.0997318	-0.045438	0.9647511	0.98931	-6.435511
LONRF3	-0.003081	6.7825464	-0.04528	0.964874	0.98931	-6.435519
TMEM168	-0.003423	6.8740806	-0.04527	0.9648816	0.98931	-6.43552
PNPO	-0.004528	10.998887	-0.045234	0.9649096	0.98931	-6.435521
RIMS2	0.0032915	7.0461328	0.0449557	0.9651251	0.98945	-6.435535
TNIK	0.0027925	6.7183262	0.0448834	0.9651812	0.98945	-6.435539
RUFY3	0.0031955	7.7816172	0.0446883	0.9653325	0.98947	-6.435548
ALDOC	0.0048998	11.939702	0.0446246	0.9653819	0.98947	-6.435551
PDE4A	0.0045687	7.1862168	0.0446039	0.9653979	0.98947	-6.435552
BRD7P3	0.002862	7.5401226	0.0443006	0.965633	0.98955	-6.435567
RAB30	-0.002856	8.0003432	-0.044171	0.9657333	0.98955	-6.435573
OR2B2	0.0043617	7.0465666	0.0440659	0.965815	0.98955	-6.435578
NKD2	-0.003592	6.7279383	-0.044013	0.965856	0.98955	-6.43558
PSMD6-AS2	0.0029763	6.9569216	0.0439673	0.9658914	0.98955	-6.435583
CWC25	-0.004003	8.6669552	-0.043873	0.9659645	0.98955	-6.435587
BRWD3	-0.003573	7.030111	-0.043786	0.9660316	0.98955	-6.435591
ANO9	-0.002732	7.0490545	-0.043755	0.9660558	0.98955	-6.435593
SLC25A29	0.0029421	6.7297766	0.0437108	0.9660902	0.98955	-6.435595
STOX1	-0.003129	6.9207078	-0.043383	0.9663446	0.98965	-6.43561
ATPIF1	0.0030676	9.0575728	0.0431507	0.9665244	0.98965	-6.435621
IRX6	0.0048216	7.1081589	0.0430837	0.9665764	0.98965	-6.435624
DKK2	0.0034323	6.9218095	0.043013	0.9666312	0.98965	-6.435628
FAM120AOS	0.0033392	9.209914	0.0430037	0.9666384	0.98965	-6.435628
SRGAP2	-0.002753	6.9873443	-0.042945	0.9666843	0.98965	-6.435631
ESR2	0.0040923	7.1307591	0.0428605	0.9667494	0.98965	-6.435635
SEL1L	0.003404	7.1053228	0.042753	0.9668328	0.98965	-6.43564
ZNF35	0.0037943	8.4219544	0.0427423	0.9668411	0.98965	-6.43564
PFKFB4	0.0067795	9.6965032	0.0427143	0.9668628	0.98965	-6.435641
C21orf62-AS	-0.003404	6.9085276	-0.041801	0.9675705	0.9903	-6.435683
TP53TG1	-0.003465	7.3847837	-0.041521	0.9677881	0.99045	-6.435696
RNF19A	-0.00318	7.3922425	-0.041345	0.967924	0.99047	-6.435704
METTL15	0.0054569	8.2622885	0.0413314	0.9679349	0.99047	-6.435704
SERPINB10	-0.003163	7.7683226	-0.041219	0.9680224	0.99049	-6.435709
SH3GL2	-0.002608	6.7291155	-0.040642	0.9684691	0.99073	-6.435735
DLX1	-0.002584	6.906994	-0.040578	0.9685187	0.99073	-6.435738
CDK2AP2	-0.004327	8.5583077	-0.040574	0.9685223	0.99073	-6.435738
MRAP2	0.0027488	6.7922035	0.0405545	0.9685372	0.99073	-6.435739
DCAKD	0.0045863	10.224986	0.0404143	0.9686459	0.99078	-6.435745
USP18	0.0027939	6.728323	0.0399147	0.9690333	0.99108	-6.435767

KCTD9	-0.003465	8.0362883	-0.03981	0.9691144	0.99108	-6.435771
MRPL20	-0.004047	10.900474	-0.039697	0.9692022	0.99108	-6.435776
JADE1	0.0027161	7.9456163	0.0396759	0.9692185	0.99108	-6.435777
FAM213A	0.0027088	9.9573094	0.0394496	0.9693939	0.99115	-6.435787
MDK	-0.002485	7.1257556	-0.039416	0.9694202	0.99115	-6.435788
CASP10	0.0026714	6.8807374	0.0392106	0.9695793	0.99121	-6.435797
RAD54L2	-0.004327	8.8349691	-0.039162	0.9696173	0.99121	-6.435799
TUB	-0.002674	6.7355538	-0.039018	0.9697289	0.99125	-6.435805
DRD2	-0.003386	6.8137319	-0.038937	0.9697914	0.99125	-6.435808
UBFD1	-0.003888	8.0262837	-0.038435	0.9701807	0.99149	-6.43583
MYH14	-0.002458	6.8866334	-0.038419	0.9701928	0.99149	-6.43583
RGPD2	0.0029694	6.8164547	0.0383175	0.9702718	0.99149	-6.435834
TNN	-0.002676	6.8779609	-0.038264	0.9703132	0.99149	-6.435837
POMZP3	0.0028927	6.9499178	0.0381274	0.9704192	0.99149	-6.435842
KCTD3	-0.00305	8.3864134	-0.038108	0.9704339	0.99149	-6.435843
CHMP6	0.0035614	7.0669896	0.0378372	0.9706442	0.99164	-6.435854
FAM78A	-0.002808	7.0311288	-0.037711	0.970742	0.99167	-6.435859
PIGW	-0.003117	8.2810003	-0.03759	0.9708357	0.9917	-6.435864
TBXA2R	-0.002942	6.7997132	-0.037301	0.9710599	0.99186	-6.435876
ADCY10	0.0046904	7.0630428	0.037206	0.9711337	0.99186	-6.43588
DLG5	-0.002882	6.9078251	-0.036999	0.9712944	0.99196	-6.435888
LNPEP	0.0029669	7.6965711	0.0367337	0.9714999	0.99199	-6.435899
GCC1	0.0039535	8.438364	0.036689	0.9715346	0.99199	-6.435901
PTGES	-0.003298	6.8800293	-0.03666	0.9715574	0.99199	-6.435902
BLM	0.0037871	8.1334777	0.0364598	0.9717123	0.99199	-6.43591
LRRC59	-0.002699	7.4887339	-0.036431	0.9717343	0.99199	-6.435911
ZNF398	-0.002576	7.4883325	-0.036241	0.9718819	0.99199	-6.435918
IGSF1	0.0022044	6.7590566	0.0361892	0.9719222	0.99199	-6.43592
FAM122A	0.0029814	7.25265	0.036142	0.9719588	0.99199	-6.435922
RHBDF1	-0.002931	6.8423041	-0.036126	0.9719708	0.99199	-6.435923
SULT1C4	0.0024737	6.8096288	0.0359142	0.9721355	0.99199	-6.435931
ATG4C	-0.004233	8.9843818	-0.035685	0.9723128	0.99199	-6.43594
ZCCHC24	-0.003249	7.1143301	-0.035625	0.9723595	0.99199	-6.435942
SLAMF8	0.0022783	6.7642653	0.0355251	0.9724372	0.99199	-6.435946
LHX5	-0.00257	6.7977972	-0.035509	0.97245	0.99199	-6.435947
SNORD108	0.0028299	6.806893	0.0354937	0.9724615	0.99199	-6.435947
NIPBL	-0.003565	7.481534	-0.035329	0.9725895	0.99199	-6.435954
SLC7A2	0.0026848	6.7375032	0.035307	0.9726063	0.99199	-6.435954
OR12D2	0.0022233	6.85757	0.035225	0.9726699	0.99199	-6.435958
CNIH2	-0.002378	6.8721125	-0.035216	0.9726769	0.99199	-6.435958
SEC23B	-0.002338	10.774395	-0.035196	0.9726924	0.99199	-6.435959
WDR36	0.002978	9.3597616	0.0351165	0.972754	0.99199	-6.435962
SUN2	0.0037007	10.054913	0.0349885	0.9728533	0.99201	-6.435967

MBD3L1	-0.00271	6.8202353	-0.034839	0.9729693	0.99201	-6.435972
CYP2J2	-0.002769	6.7762875	-0.034757	0.9730327	0.99201	-6.435975
OR10J3	0.0029125	6.7377875	0.0347055	0.9730728	0.99201	-6.435977
TUBB6	0.0029197	7.7915055	0.0346002	0.9731545	0.99201	-6.435981
ZNF26	0.002279	7.6392611	0.0344703	0.9732552	0.99201	-6.435986
FAM222A	0.0025643	6.9360879	0.0344629	0.9732609	0.99201	-6.435986
GTF2IP1	0.0032677	8.6026282	0.0343926	0.9733154	0.99201	-6.435989
SPRYD4	-0.002566	8.2672805	-0.03421	0.9734569	0.99208	-6.435996
SLC41A2	0.0033728	7.4127597	0.0341009	0.9735417	0.9921	-6.436
CLEC10A	-0.002276	6.8242123	-0.033886	0.9737081	0.99217	-6.436008
SSC5D	0.0021471	6.8013169	0.0338322	0.9737501	0.99217	-6.43601
CYB5A	-0.002947	10.077943	-0.033436	0.9740576	0.99242	-6.436024
BCL6	0.0023755	10.568799	0.0333133	0.9741525	0.99243	-6.436029
ECE2	0.0021371	9.0129611	0.0332389	0.9742102	0.99243	-6.436031
FMO2	-0.00221	7.0621348	-0.033157	0.9742734	0.99243	-6.436034
TNFAIP8L2	-0.002849	6.8712435	-0.032976	0.9744145	0.99248	-6.436041
BAD	-0.002455	7.8281978	-0.032916	0.9744605	0.99248	-6.436043
CSTF1	0.0024576	7.2397005	0.0327775	0.9745681	0.99252	-6.436048
RUSC1-AS1	-0.002439	7.0203896	-0.032428	0.9748394	0.99267	-6.43606
NEPRO	-0.002042	7.3392726	-0.032414	0.9748501	0.99267	-6.436061
NOCT	0.0036892	8.8644553	0.0322424	0.9749831	0.99272	-6.436067
PDSS2	0.0026461	8.7012555	0.0321796	0.9750318	0.99272	-6.436069
KRR1	0.0034725	7.4895121	0.0320777	0.9751109	0.99273	-6.436072
EPG5	0.002314	6.9159736	0.0317901	0.9753339	0.99289	-6.436082
PLEKHG4	-0.00315	7.731758	-0.03131	0.975706	0.99319	-6.436099
HAO2	0.0020059	6.8425541	0.0311814	0.975806	0.99323	-6.436103
KANSL1L	-0.002092	6.8714242	-0.031007	0.9759414	0.9933	-6.436109
CYB5RL	-0.002183	7.1279026	-0.030583	0.9762703	0.99356	-6.436123
LYSMD3	0.0025854	6.9858209	0.0303743	0.9764321	0.99366	-6.43613
GATM	0.0022751	6.809721	0.0301827	0.9765806	0.99369	-6.436136
B3GAT3	0.0034226	7.3135004	0.030157	0.9766006	0.99369	-6.436137
FAM136BP	0.0026911	7.9634144	0.0300599	0.9766759	0.9937	-6.43614
FLOT2	-0.004379	11.664165	-0.029841	0.9768453	0.99376	-6.436147
PARS2	0.0022195	7.5784079	0.0296927	0.9769607	0.99376	-6.436152
MLYCD	0.0020347	7.3477624	0.0296474	0.9769959	0.99376	-6.436154
ARHGAP39	0.0019855	6.9614176	0.029567	0.9770582	0.99376	-6.436156
CD8A	0.0026655	6.7924163	0.0295332	0.9770845	0.99376	-6.436157
CENPV	-0.003259	10.591515	-0.029428	0.9771657	0.99376	-6.436161
NUP50	-0.001948	7.820791	-0.029371	0.9772105	0.99376	-6.436162
DICER1	-0.003527	7.7971192	-0.028923	0.9775578	0.99388	-6.436177
PWWP2B	-0.00179	6.8527572	-0.028909	0.9775684	0.99388	-6.436177
ZNF600	-0.002495	7.5144749	-0.028785	0.9776647	0.99388	-6.436181
TRAF6	-0.001996	7.4833809	-0.028678	0.9777476	0.99388	-6.436184

BMF	0.0023594	7.1771876	0.0285748	0.9778279	0.99388	-6.436187
GAD1	-0.00197	6.8558252	-0.028567	0.9778339	0.99388	-6.436188
TTC31	-0.002564	8.24199	-0.028226	0.9780986	0.99388	-6.436198
FAM13A	-0.001778	6.8187917	-0.028166	0.9781447	0.99388	-6.4362
AKT3	0.0018011	6.8464284	0.0280402	0.9782426	0.99388	-6.436204
COMMD7	-0.003452	10.703377	-0.027954	0.9783095	0.99388	-6.436206
PTER	0.0030236	8.4719963	0.0278781	0.9783683	0.99388	-6.436209
WRNIP1	-0.002419	9.1494727	-0.027874	0.9783716	0.99388	-6.436209
ZNF782	0.0019226	6.8321253	0.027865	0.9783784	0.99388	-6.436209
PGRMC1	-0.001805	10.214811	-0.027795	0.9784329	0.99388	-6.436211
OR11H1	-0.002018	7.0960714	-0.027609	0.9785767	0.99388	-6.436217
TXNRD1	-0.002223	9.0668516	-0.027477	0.9786793	0.99388	-6.436221
ABCB9	0.0017221	7.3786502	0.0274674	0.9786869	0.99388	-6.436221
SKIV2L	0.0021106	9.5388245	0.0274526	0.9786984	0.99388	-6.436221
HADHB	-0.002491	9.1028383	-0.027433	0.9787139	0.99388	-6.436222
C1orf210	-0.002842	7.0751343	-0.027389	0.9787477	0.99388	-6.436223
EFHB	0.0031138	7.4913657	0.0271679	0.9789192	0.99388	-6.43623
TMEM45A	0.0017951	6.8026612	0.027099	0.9789726	0.99388	-6.436232
SLC9A6	-0.002413	7.471091	-0.02709	0.9789797	0.99388	-6.436232
FNIP2	0.002525	6.9533759	0.0270091	0.9790424	0.99388	-6.436234
HNMT	0.0016354	6.886425	0.0268959	0.9791302	0.99388	-6.436238
GPR84	-0.001791	6.9194447	-0.026857	0.9791601	0.99388	-6.436239
ZNF197	-0.001726	7.0737305	-0.026841	0.9791728	0.99388	-6.436239
CHADL	0.0020631	6.8871979	0.0267451	0.9792472	0.99389	-6.436242
PHF7	-0.001743	6.9990251	-0.026593	0.9793649	0.99392	-6.436247
SH3BP2	0.0028166	6.8809361	0.0265318	0.9794127	0.99392	-6.436248
HECW2	0.0022416	7.1377257	0.0263158	0.9795802	0.99398	-6.436255
ORC2	0.0024174	8.8585655	0.0262799	0.9796081	0.99398	-6.436256
POLR3H	-0.002127	7.7664947	-0.026137	0.9797193	0.99402	-6.43626
KIF6	-0.001951	6.9653128	-0.026043	0.9797915	0.99403	-6.436262
CD302	-0.001614	6.825359	-0.025849	0.9799427	0.9941	-6.436268
PLCB4	-0.001998	6.839756	-0.025747	0.9800213	0.9941	-6.436271
GNAQ	0.0017271	6.6771881	0.0255737	0.980156	0.9941	-6.436275
FRMD3	0.0022842	6.8787069	0.0254471	0.9802541	0.9941	-6.436279
FAAP24	-0.002652	8.0152369	-0.025422	0.980274	0.9941	-6.43628
NSUN4	0.0020565	9.284445	0.0254174	0.9802772	0.9941	-6.43628
POLN	0.0016482	6.8474286	0.0252507	0.9804065	0.99417	-6.436284
KIAA1549	0.0018181	6.7652662	0.0251341	0.980497	0.99419	-6.436287
SCIN	0.0017366	6.8047363	0.0250389	0.9805708	0.99419	-6.43629
SLC8A1	-0.001781	6.77885	-0.024625	0.9808921	0.99445	-6.436301
SNAP47	-0.001718	8.137239	-0.024402	0.9810647	0.99456	-6.436307
KRTAP24-1	0.0021766	6.7963138	0.0241157	0.981287	0.99471	-6.436315
CCDC186	-0.002606	6.9761921	-0.023827	0.9815113	0.99479	-6.436322

CHIAP2	0.0025964	6.8156271	0.023809	0.981525	0.99479	-6.436323
ZNF625	-0.002587	6.7528986	-0.02375	0.9815711	0.99479	-6.436324
ABCD4	0.0015442	6.8723484	0.0233984	0.9818435	0.995	-6.436333
HSPA7	-0.001524	7.2176149	-0.023147	0.9820385	0.99513	-6.436339
BCL11B	-0.001573	6.7304648	-0.022749	0.9823476	0.99531	-6.436349
CYP2S1	0.0014899	6.7815516	0.0227379	0.9823559	0.99531	-6.43635
S100A7L2	-0.001715	6.7638144	-0.022654	0.9824208	0.99531	-6.436352
DAAM2	-0.002119	7.026952	-0.022502	0.9825387	0.99533	-6.436355
WASH3P	-0.001749	7.8376243	-0.022447	0.9825813	0.99533	-6.436357
SCAP	0.0024676	10.454599	0.022281	0.9827104	0.99533	-6.436361
GLUD2	-0.002331	6.926964	-0.022248	0.9827363	0.99533	-6.436362
DDX19A	-0.002318	9.320607	-0.022185	0.9827851	0.99533	-6.436363
ERICH4	-0.001946	6.8925718	-0.02206	0.9828816	0.99536	-6.436366
SH3BP4	0.0014714	6.7827204	0.0217702	0.9831067	0.99552	-6.436373
DAZAP1	-0.001479	8.3950152	-0.021596	0.9832417	0.99554	-6.436377
TOR1B	0.001455	7.7264181	0.0215731	0.9832597	0.99554	-6.436378
SLC14A1	0.0013526	6.9084571	0.0214789	0.9833327	0.99554	-6.43638
PAIP2	-0.001341	8.5122676	-0.021388	0.9834029	0.99554	-6.436382
MRPS31P5	-0.001386	7.0829621	-0.021185	0.9835611	0.99564	-6.436387
ITGAL	0.0017269	7.4123883	0.0209555	0.9837388	0.99575	-6.436392
CLSTN3	0.0015855	6.9807784	0.0206641	0.9839649	0.9958	-6.436398
SLC35A3	-0.002708	8.3474022	-0.02061	0.9840068	0.9958	-6.4364
HSD17B14	-0.001434	6.8883127	-0.020569	0.9840385	0.9958	-6.4364
MZB1	0.0023765	10.234834	0.0204326	0.9841445	0.9958	-6.436403
NKAPP1	0.0016943	6.9614833	0.0202546	0.9842826	0.9958	-6.436407
APOA1	0.0015306	6.840617	0.0202338	0.9842988	0.9958	-6.436408
ULK3	-0.002275	7.2044083	-0.020208	0.9843186	0.9958	-6.436408
DPAGT1	-0.001823	8.7099602	-0.02018	0.9843401	0.9958	-6.436409
METTL22	0.0015632	8.8778451	0.0197403	0.9846816	0.99601	-6.436419
PLEKHB1	-0.001689	7.5013085	-0.019677	0.9847309	0.99601	-6.43642
SKIV2L2	-0.003053	9.7655477	-0.019654	0.9847484	0.99601	-6.43642
FSTL3	-0.002076	7.3121844	-0.019033	0.9852304	0.99639	-6.436433
GSTM1	0.0014291	7.3933401	0.0189913	0.9852628	0.99639	-6.436434
SLMAP	0.0022979	9.0441744	0.0188446	0.9853766	0.99644	-6.436437
ACOT1	-0.001292	6.8171463	-0.018559	0.9855985	0.99659	-6.436443
GPATCH11	0.0012595	6.8326628	0.0182063	0.9858719	0.99665	-6.43645
CKB	-0.001352	6.796294	-0.018163	0.9859053	0.99665	-6.436451
RNASE2	0.0015602	6.7722846	0.0180965	0.9859571	0.99665	-6.436452
DECR2	0.0015665	8.5630266	0.0180523	0.9859914	0.99665	-6.436453
CFAP52	-0.001405	6.8750223	-0.017883	0.986123	0.99665	-6.436456
MMP9	0.0014659	6.7580073	0.0177685	0.9862116	0.99665	-6.436459
COX15	0.0018361	8.1797011	0.0177655	0.9862139	0.99665	-6.436459
TRADD	0.0014118	7.512249	0.0177593	0.9862187	0.99665	-6.436459

FNDC4	-0.001262	6.8511585	-0.017692	0.9862706	0.99665	-6.43646
ZNF799	0.0013412	6.8954875	0.0173788	0.9865139	0.99683	-6.436466
BNIP3L	-0.00175	8.0044113	-0.01725	0.9866136	0.99683	-6.436468
LYRM2	-0.002592	9.0843908	-0.017194	0.9866572	0.99683	-6.436469
RAB11FIP3	-0.00203	9.2531842	-0.016865	0.9869122	0.99683	-6.436476
LRSAM1	0.0014617	9.7790305	0.0167726	0.9869843	0.99683	-6.436477
FAM184B	0.0010779	6.8957919	0.0167244	0.9870217	0.99683	-6.436478
BVES	0.0013817	6.9168104	0.0166637	0.9870688	0.99683	-6.436479
FURIN	-0.001621	6.9185765	-0.016643	0.9870847	0.99683	-6.43648
TARS	-0.00213	10.30739	-0.016623	0.9871002	0.99683	-6.43648
PTH	0.0013333	6.8904933	0.0165827	0.9871317	0.99683	-6.436481
ACKR2	0.0016709	6.8264186	0.0161535	0.9874647	0.99705	-6.436488
ZBTB7A	-0.001304	7.5745696	-0.016132	0.9874815	0.99705	-6.436489
NSUN3	0.0012289	7.5025586	0.0158486	0.9877012	0.99707	-6.436494
DLGAP5	0.001761	9.4451259	0.0156797	0.9878323	0.99707	-6.436496
KRTAP13-1	0.0012782	6.7905649	0.0156185	0.9878798	0.99707	-6.436497
HERC2P9	-0.001226	6.7902956	-0.015534	0.9879453	0.99707	-6.436499
ANKRD30B	-0.002662	10.856618	-0.015482	0.9879854	0.99707	-6.4365
STK16	0.0013156	7.2702391	0.0154	0.9880494	0.99707	-6.436501
CADPS	-0.001009	7.4184296	-0.015364	0.9880773	0.99707	-6.436502
LRRFIP2	0.0011456	8.8065988	0.0153145	0.9881157	0.99707	-6.436503
RPL19	0.0019553	14.227323	0.0153056	0.9881226	0.99707	-6.436503
TSPAN17	-0.001082	8.8513783	-0.015178	0.9882216	0.9971	-6.436505
SFXN2	-0.001165	7.6696083	-0.015049	0.9883218	0.99712	-6.436507
GNG2	-0.001574	7.7559415	-0.014978	0.9883772	0.99712	-6.436508
CENPT	-0.001876	8.1599104	-0.014658	0.9886247	0.99727	-6.436513
APH1A	0.0011679	9.2173437	0.0144415	0.9887931	0.99727	-6.436517
ABCB4	-0.000991	6.7041492	-0.01415	0.9890197	0.99727	-6.436521
GLS	-0.001333	8.3091698	-0.01413	0.989035	0.99727	-6.436521
FAM160B2	-0.000987	7.0547861	-0.01407	0.9890811	0.99727	-6.436522
LOC729603	-0.002626	12.679215	-0.014066	0.9890842	0.99727	-6.436522
NEK4	-0.000948	7.0841997	-0.013959	0.9891678	0.99727	-6.436524
FIGNL1	0.0009189	7.700915	0.0139439	0.9891792	0.99727	-6.436524
C19orf70	0.0011923	11.102302	0.0139202	0.9891976	0.99727	-6.436525
RDH11	-0.001136	9.719592	-0.013909	0.989206	0.99727	-6.436525
CST3	0.0010948	6.8394792	0.0137665	0.9893169	0.99729	-6.436527
IQCH	0.0009126	6.8963513	0.0136536	0.9894045	0.99729	-6.436529
ATP6V1H	-0.001137	8.4661459	-0.013513	0.9895134	0.99729	-6.436531
CCL25	0.0008304	6.8789611	0.0135027	0.9895216	0.99729	-6.436531
PRSS55	0.001703	6.9951661	0.0134358	0.9895735	0.99729	-6.436532
MAX	0.0008721	7.3234499	0.0132578	0.9897116	0.99736	-6.436534
RNF128	0.0010474	6.9775742	0.0131803	0.9897717	0.99736	-6.436535
RAMP2	-0.000826	7.0130856	-0.0129	0.9899891	0.99751	-6.436539

RAB12	-0.001048	7.3851423	-0.012783	0.9900803	0.99753	-6.436541
CTNNA1	0.001109	7.4777063	0.0125828	0.9902354	0.99757	-6.436544
NUDT17	-0.000854	6.862801	-0.012462	0.9903291	0.99757	-6.436545
CDK16	0.0011889	6.8154532	0.0124025	0.9903753	0.99757	-6.436546
KLRG1	0.0011005	8.5111991	0.0123755	0.9903963	0.99757	-6.436547
CYP27C1	-0.001116	6.9700228	-0.012155	0.9905677	0.99767	-6.43655
PPP2R2D	0.0007688	8.7202857	0.0120763	0.9906284	0.99767	-6.436551
CRY1	0.0007393	6.7937118	0.0118466	0.9908067	0.99778	-6.436554
HMGCL	-0.00117	8.0341343	-0.01174	0.9908897	0.99779	-6.436555
ZNF668	0.0010548	8.8967441	0.011306	0.9912262	0.998	-6.43656
DCUN1D3	0.0008621	7.3490657	0.0112906	0.9912381	0.998	-6.436561
TSPAN4	-0.000978	7.2427937	-0.011133	0.9913606	0.998	-6.436562
GP9	-0.000756	6.8422155	-0.011123	0.9913679	0.998	-6.436563
GALNT3	0.0010485	7.5298946	0.0110035	0.991461	0.99803	-6.436564
LEFTY1	0.0007328	6.8790766	0.0109024	0.9915393	0.99804	-6.436565
CYP21A2	-0.001048	6.811347	-0.01057	0.9917972	0.99823	-6.436569
TRMT2A	-0.000653	7.0029629	-0.010201	0.9920836	0.99842	-6.436573
BAIAP2	0.0006524	6.9766321	0.0100531	0.9921985	0.99842	-6.436575
CNIH1	0.0006516	10.905515	0.0100275	0.9922183	0.99842	-6.436575
SERPINB2	0.000645	6.9222066	0.0097563	0.9924288	0.99842	-6.436578
SGMS1	0.0013979	7.3513931	0.0096948	0.9924765	0.99842	-6.436579
COL4A5	-0.000649	6.7587285	-0.009646	0.9925147	0.99842	-6.436579
CTSL	-0.000698	6.9591419	-0.009644	0.9925158	0.99842	-6.436579
DHTKD1	0.0006482	8.2418594	0.0095936	0.992555	0.99842	-6.43658
APOBEC3D	-0.000739	7.287354	-0.009531	0.9926036	0.99842	-6.43658
GTPBP6	-0.001236	10.974285	-0.009339	0.9927526	0.9985	-6.436582
ARHGAP24	-0.000653	7.4340298	-0.009158	0.9928927	0.99851	-6.436584
ABCG1	0.0005673	7.0769037	0.0091497	0.9928995	0.99851	-6.436584
VAPB	0.0006526	7.0304262	0.0090539	0.9929739	0.99852	-6.436585
MRFAP1	-0.000868	11.701836	-0.008913	0.9930828	0.99856	-6.436587
TMEM258	0.0010987	12.8644	0.0087371	0.9932197	0.99863	-6.436588
PDLIM3	0.0005934	6.8044581	0.0082775	0.9935763	0.99882	-6.436592
MGST1	-0.000517	6.7844138	-0.008212	0.993627	0.99882	-6.436593
CATSPERZ	0.0006315	6.9073863	0.0081549	0.9936715	0.99882	-6.436594
HCG9	-0.000581	6.7009249	-0.008086	0.9937253	0.99882	-6.436594
CDK5R2	-0.000619	6.9341302	-0.00804	0.9937603	0.99882	-6.436595
EPC1	0.0005298	7.2303108	0.0078404	0.9939155	0.99884	-6.436596
HOXA9	0.0005514	6.7544395	0.007732	0.9939997	0.99884	-6.436597
LINC00467	-0.000476	7.6818473	-0.007679	0.9940411	0.99884	-6.436598
TXNRD2	-0.000646	8.6051569	-0.007663	0.994053	0.99884	-6.436598
PAF1	0.0007511	9.5708897	0.0073814	0.9942718	0.9989	-6.4366
RAB3C	0.00049	6.7339765	0.0072265	0.9943919	0.9989	-6.436601
NPM3	-0.000634	11.602283	-0.00722	0.9943968	0.9989	-6.436601

PANX2	0.0004991	6.6848834	0.0071735	0.994433	0.9989	-6.436602
TMPRSS7	0.0005565	6.9854891	0.0070557	0.9945245	0.9989	-6.436603
FRG2C	0.0004845	6.8664808	0.0070341	0.9945413	0.9989	-6.436603
SUDS3	0.0009053	7.3034917	0.0069736	0.9945882	0.9989	-6.436603
DCAF6	0.0006565	8.5824558	0.0067618	0.9947526	0.999	-6.436605
THAP7	-0.00054	7.4885323	-0.006675	0.9948198	0.999	-6.436605
KSR2	-0.000553	7.0153669	-0.006582	0.9948925	0.999	-6.436606
SYNJ2	0.0006518	7.371114	0.005882	0.9954353	0.99945	-6.436611
DUX3	-0.000401	6.846552	-0.005826	0.9954787	0.99945	-6.436611
IFFO1	0.0004215	7.4442639	0.0055466	0.9956956	0.99947	-6.436613
ZNF251	-0.000481	7.1284395	-0.0055	0.995732	0.99947	-6.436613
SMIM13	0.0005901	7.7571838	0.0054646	0.9957592	0.99947	-6.436613
ZNF200	0.0003734	8.0160248	0.0054348	0.9957823	0.99947	-6.436614
ZNF519	0.0003732	7.3951321	0.0052675	0.9959122	0.99947	-6.436615
CLEC2B	-0.000567	7.6183293	-0.005204	0.9959618	0.99947	-6.436615
IL18BP	-0.000442	7.2960667	-0.005178	0.9959819	0.99947	-6.436615
RAN	0.0004204	11.81868	0.0048119	0.9962658	0.99948	-6.436617
RCN3	0.0003681	6.8859605	0.0047065	0.9963475	0.99948	-6.436618
PPL	-0.000355	6.802841	-0.004414	0.9965748	0.99948	-6.436619
APOC2	-0.000361	6.8695088	-0.004327	0.9966419	0.99948	-6.436619
BCL9L	-0.000354	7.0398237	-0.004316	0.9966507	0.99948	-6.43662
ZNF45	0.0002811	7.7880865	0.0043124	0.9966534	0.99948	-6.43662
GRIA3	-0.000266	6.8129536	-0.004279	0.9966791	0.99948	-6.43662
FAM193B	0.0004542	7.2377473	0.0041851	0.9967522	0.99948	-6.43662
XAGE1B	-0.000297	6.8146123	-0.004155	0.9967754	0.99948	-6.43662
ARIH1	0.0003168	8.1876031	0.0040563	0.9968521	0.99948	-6.436621
HLA-G	-0.000299	8.261581	-0.004025	0.9968762	0.99948	-6.436621
RELL2	0.0004244	7.4557375	0.0040069	0.9968905	0.99948	-6.436621
LINC00346	-0.000278	6.7523155	-0.003996	0.9968993	0.99948	-6.436621
MTFR1L	0.0003006	7.8816189	0.0039329	0.9969479	0.99948	-6.436621
B3GNTL1	0.0002776	7.5058341	0.0037168	0.9971156	0.99958	-6.436622
TTC7B	0.0003001	7.0029181	0.0036013	0.9972052	0.9996	-6.436623
FZD5	-0.000258	6.9632355	-0.003371	0.9973842	0.99964	-6.436623
HEYL	0.0002333	6.866193	0.0033007	0.9974385	0.99964	-6.436624
NOL10	-0.000293	7.3476282	-0.003194	0.997521	0.99964	-6.436624
HEXIM2	-0.000273	7.3913768	-0.003141	0.9975621	0.99964	-6.436624
DUOX1	0.0003085	6.9053485	0.0030546	0.9976295	0.99964	-6.436625
PLGLA	0.0002132	6.9738532	0.0028248	0.9978078	0.99964	-6.436625
PINX1	0.0002616	7.8381905	0.0027433	0.9978711	0.99964	-6.436626
RAX2	0.0003602	7.7872844	0.0027215	0.997888	0.99964	-6.436626
OR52D1	-0.000242	6.9465461	-0.002712	0.9978953	0.99964	-6.436626
NXPH1	0.0001677	6.8316412	0.0026655	0.9979315	0.99964	-6.436626
UGT3A2	-0.000165	6.7824515	-0.002318	0.9982011	0.99965	-6.436627

ABCE1	-0.000286	10.459243	-0.002295	0.9982191	0.99965	-6.436627
STXBP4	0.0001699	7.0875716	0.0022605	0.9982457	0.99965	-6.436627
ZNF564	-0.000199	7.3858736	-0.002233	0.9982673	0.99965	-6.436627
EPB41L2	-0.000139	6.814968	-0.002218	0.9982785	0.99965	-6.436627
ZNF114	0.0001586	6.8546821	0.0019597	0.9984792	0.99978	-6.436628
FAM160A1	-0.000101	6.8690853	-0.001521	0.9988199	0.99981	-6.436628
ZNF454	-9.56E-05	6.860107	-0.001452	0.9988732	0.99981	-6.436628
LOC1001325	-0.000106	14.143784	-0.001368	0.9989382	0.99981	-6.436629
GRAMD4	-0.000102	7.5382622	-0.001244	0.9990345	0.99981	-6.436629
CCT6B	-0.000137	7.6624554	-0.001093	0.9991515	0.99981	-6.436629
EIF4EBP3	-8.06E-05	7.4234742	-0.000962	0.9992537	0.99981	-6.436629
TENM3	9.17E-05	6.7559705	0.0009209	0.9992853	0.99981	-6.436629
ZFC3H1	7.18E-05	8.0609164	0.0008571	0.9993349	0.99981	-6.436629
MTMR11	-5.95E-05	6.9119822	-0.000825	0.9993597	0.99981	-6.436629
DEPDC5	9.01E-05	7.6207175	0.0007886	0.999388	0.99981	-6.436629
MT1X	6.95E-05	10.567727	0.0007879	0.9993885	0.99981	-6.436629
DCP2	0.0001237	9.76855	0.0007596	0.9994105	0.99981	-6.436629
ARHGEF10L	3.98E-05	7.1148842	0.0006385	0.9995045	0.99981	-6.436629
C21orf58	-7.02E-05	8.1390112	-0.000618	0.9995203	0.99981	-6.436629
FAM69A	-7.05E-05	9.2923822	-0.0006	0.9995341	0.99981	-6.436629
CAST	3.16E-05	7.5953506	0.0003662	0.9997158	0.99992	-6.43663
UXT	-1.21E-05	9.7253598	-0.000187	0.9998552	0.99995	-6.43663
TMEM63A	-1.68E-05	7.0394477	-0.000157	0.9998779	0.99995	-6.43663
NDUFV3	3.82E-06	7.5926862	4.91E-05	0.9999619	0.99996	-6.43663

Table S1. b) Differentilly Expressed Genes (DEG) GONH2 VS Control

GENE	logFC	AveExpr	t	p value	B-H FDR p value	Significant (FDR p < 0.1 and p < 0.005)	B
TFRC	0.3604209	12.066853	3.9132669	0.0033955	0.09991	YES	-1.555745
PCNT	0.3590446	9.4292486	3.9134597	0.0033945	0.09991	YES	-1.555459
TFDP2	-0.268237	8.6738621	-3.91734	0.0033742	0.09969	YES	-1.54971
NME3	-0.255673	8.5359154	-3.917635	0.0033727	0.09969	YES	-1.549273
DDIAS	0.3561902	8.6546417	3.9193976	0.0033635	0.09969	YES	-1.546662
MRPS7	-0.345071	10.012681	-3.919805	0.0033614	0.09969	YES	-1.546059
COA3	-0.408981	9.7577775	-3.920274	0.003359	0.09969	YES	-1.545364
KIFC1	0.5231956	9.573977	3.9233525	0.0033431	0.09969	YES	-1.540806
POGK	0.2419811	10.298239	3.9253333	0.0033329	0.09968	YES	-1.537873
ANKRD44	-0.280166	7.1223124	-3.931846	0.0032996	0.09889	YES	-1.528235
UQCRC1	0.2458607	10.562007	3.9325748	0.0032959	0.09889	YES	-1.527157
PLA2G2C	-0.493271	7.1128784	-3.934773	0.0032848	0.09885	YES	-1.523905
MTMR4	0.2541284	10.56277	3.9379046	0.003269	0.09858	YES	-1.519275
KIF5B	0.5185468	8.6960939	3.9383963	0.0032665	0.09858	YES	-1.518548
GTF2H3	0.4027714	8.7389672	3.9409131	0.0032539	0.09853	YES	-1.514827
AKR1B1	0.3047434	11.426696	3.9417371	0.0032498	0.09853	YES	-1.513609
RNU4-1	-0.328837	7.0691986	-3.941831	0.0032493	0.09853	YES	-1.51347
CLDND2	-0.309012	7.5691399	-3.94628	0.0032271	0.09833	YES	-1.506896
EIF2B3	-0.350279	8.7023788	-3.947024	0.0032234	0.09833	YES	-1.505797
DCLRE1C	-0.240568	8.0401427	-3.954707	0.0031856	0.09747	YES	-1.494451
STRIP2	-0.331634	8.5708968	-3.956393	0.0031773	0.09742	YES	-1.491962
INCENP	0.2339032	7.7425256	3.9568281	0.0031752	0.09742	YES	-1.491319
INO80D	0.3497392	8.0267973	3.9582016	0.0031685	0.09742	YES	-1.489292
SUB1	-0.426554	9.1937963	-3.965307	0.0031341	0.09671	YES	-1.47881
RNASEH2B	-0.467337	8.9238257	-3.967598	0.0031231	0.09657	YES	-1.475432
SYNJ2BP	-0.286656	7.346917	-3.967634	0.0031229	0.09657	YES	-1.475378
PAFAH1B1	0.3149	9.8834732	3.9682862	0.0031198	0.09657	YES	-1.474417
FASTKD1	-0.393036	9.1105634	-3.969138	0.0031157	0.09657	YES	-1.473162
SRF	0.3272675	10.639994	3.97377	0.0030937	0.09648	YES	-1.466334
HNRNPM	0.4070791	10.70884	3.9738111	0.0030935	0.09648	YES	-1.466274
COMMD10	-0.321652	8.9678101	-3.976518	0.0030807	0.09648	YES	-1.462285
PROSER1	0.3066029	9.9858376	3.9779858	0.0030737	0.09648	YES	-1.460123
GXYLT1	0.3729671	8.0091632	3.9799103	0.0030647	0.0964	YES	-1.457289
RRAGC	0.3268763	8.771093	3.9799411	0.0030645	0.0964	YES	-1.457243
SORL1	0.5323216	9.8453729	3.9828908	0.0030507	0.09637	YES	-1.4529
CYP2E1	-0.406629	9.3177933	-3.984552	0.0030429	0.09634	YES	-1.450454
YAE1D1	-0.293472	8.6477869	-3.984994	0.0030409	0.09634	YES	-1.449804
CAB39L	-0.278003	7.7924002	-3.985114	0.0030403	0.09634	YES	-1.449628
OSBPL9	0.3128109	9.7243269	3.9859784	0.0030363	0.09634	YES	-1.448355
NIF3L1	-0.273915	10.81134	-3.986136	0.0030356	0.09634	YES	-1.448122
TNFSF14	-0.343463	7.9147818	-3.986915	0.0030319	0.09634	YES	-1.446976

CDC26	-0.299967	10.379226	-3.987706	0.0030283	0.09634	YES	-1.445812
RARS2	-0.291248	8.8824662	-3.988275	0.0030256	0.09634	YES	-1.444974
DAD1P1	-0.354508	7.2180407	-3.990675	0.0030145	0.09634	YES	-1.441443
AQP12B	-0.619174	7.8223222	-3.990737	0.0030142	0.09634	YES	-1.441352
ZNF260	0.2739371	7.4713132	3.9932628	0.0030026	0.09634	YES	-1.437637
ANKRD30B	-0.400451	10.657723	-3.996444	0.002988	0.09634	YES	-1.432959
PRRC2A	0.5511976	8.3073033	3.9976151	0.0029826	0.09634	YES	-1.431237
SNORA25	-0.362123	8.7653864	-3.998457	0.0029788	0.09634	YES	-1.429999
ZCWPW1	-0.26614	8.0759205	-3.999114	0.0029758	0.09634	YES	-1.429033
LPGAT1	0.274042	7.4873048	4.0015	0.002965	0.09634	YES	-1.425526
SIN3A	0.2799944	9.0980676	4.0016195	0.0029644	0.09634	YES	-1.425351
TMEM206	-0.365964	9.0101365	-4.003172	0.0029574	0.09634	YES	-1.42307
SLC2A6	-0.37814	9.7502178	-4.003353	0.0029566	0.09634	YES	-1.422803
VTI1B	-0.394763	8.6142167	-4.01249	0.0029155	0.09627	YES	-1.409384
CCDC130	-0.505254	9.8410302	-4.014837	0.0029051	0.09614	YES	-1.405938
PSME4	0.2482658	10.92672	4.0161545	0.0028992	0.09614	YES	-1.404005
CCSER2	0.2931297	7.844565	4.0165449	0.0028975	0.09614	YES	-1.403432
DLEU1	-0.342204	8.8178583	-4.019523	0.0028843	0.09611	YES	-1.399062
TAF6L	-0.412139	9.18429	-4.019797	0.0028831	0.09611	YES	-1.398661
SNORD12B	-0.311541	7.0949389	-4.022343	0.0028719	0.09611	YES	-1.394926
CHD7	0.4090647	9.3262052	4.0285981	0.0028446	0.09544	YES	-1.385754
AKAP17A	0.2905011	9.6448126	4.0307747	0.0028352	0.09534	YES	-1.382564
NDUFB4	-0.421778	7.0896766	-4.031918	0.0028303	0.09534	YES	-1.380888
ANKRD11	0.2596821	9.656132	4.0329113	0.002826	0.09534	YES	-1.379433
USP14	0.3665713	8.8229545	4.0389117	0.0028002	0.09482	YES	-1.370644
SH3GL1	-0.388624	8.1770109	-4.043113	0.0027823	0.09444	YES	-1.364493
UROC1	0.2634723	7.0632483	4.0433339	0.0027814	0.09444	YES	-1.36417
CKS2	-0.319321	11.839836	-4.044015	0.0027785	0.09444	YES	-1.363173
NELFE	-0.427228	8.8684914	-4.045449	0.0027724	0.09444	YES	-1.361074
KLF13	0.4208328	10.006067	4.04563	0.0027717	0.09444	YES	-1.36081
ECI2	-0.369276	10.430641	-4.047013	0.0027658	0.09444	YES	-1.358786
UBE2V2	0.2488923	10.996259	4.048169	0.002761	0.09444	YES	-1.357095
COL12A1	0.3085408	7.0779841	4.0512833	0.0027479	0.09444	YES	-1.35254
GOLGA6L2	0.2541431	7.0781683	4.0549282	0.0027327	0.09444	YES	-1.34721
TRANK1	0.344692	8.4232948	4.0576076	0.0027215	0.09435	YES	-1.343294
SOCS1	0.2984883	8.0553893	4.0622354	0.0027024	0.09391	YES	-1.336531
SLF2	0.304708	8.2465695	4.0625672	0.0027011	0.09391	YES	-1.336046
FIP1L1	0.3142396	9.2748451	4.0626029	0.0027009	0.09391	YES	-1.335994
DOCK10	0.2881854	9.5095006	4.0626338	0.0027008	0.09391	YES	-1.335949
NDUFB10	-0.370636	11.443103	-4.065144	0.0026905	0.09391	YES	-1.332282
UHRF1	0.3103833	8.9244502	4.0653427	0.0026897	0.09391	YES	-1.331992
SERBP1	0.3540896	10.35636	4.0709697	0.0026667	0.09391	YES	-1.323777
MPC1	-0.280696	11.082214	-4.07661	0.002644	0.09344	YES	-1.315546
EEF1AKMT2	0.2554101	7.3499363	4.0888736	0.0025952	0.09193	YES	-1.297667
DNASE2	-0.317419	8.8437206	-4.095602	0.0025688	0.09122	YES	-1.287867

DUSP11	-0.362171	8.8455306	-4.098665	0.0025569	0.09102	YES	-1.283408
HUWE1	0.3789097	8.1097965	4.1034808	0.0025383	0.09058	YES	-1.2764
LEO1	0.3514952	7.9827111	4.1089756	0.0025172	0.09005	YES	-1.268408
COMMD2	-0.413713	8.4604272	-4.109097	0.0025167	0.09005	YES	-1.268231
TMEM68	-0.329734	7.047442	-4.1094	0.0025156	0.09005	YES	-1.267791
STAT2	-0.347101	9.3874321	-4.111902	0.0025061	0.09005	YES	-1.264154
PUM2	0.3964279	9.2455966	4.1180531	0.0024828	0.08969	YES	-1.255215
RANGAP1	0.3975186	10.945903	4.1208851	0.0024722	0.08953	YES	-1.251101
SNORD1A	-0.26308	7.2908666	-4.129677	0.0024395	0.08857	YES	-1.238338
TROVE2	0.3603604	9.0666023	4.1305503	0.0024363	0.08857	YES	-1.237072
WDR83OS	-0.311565	10.607973	-4.131958	0.0024311	0.08857	YES	-1.235029
RSPH4A	-0.335785	7.0750598	-4.133293	0.0024262	0.08857	YES	-1.233092
MTAP	0.3970022	9.2842256	4.1439203	0.0023875	0.08755	YES	-1.217687
MRPL47	-0.427541	8.644778	-4.146527	0.0023781	0.08743	YES	-1.21391
ATP5C1	-0.282199	11.801265	-4.147241	0.0023756	0.08743	YES	-1.212877
NPRL2	-0.459705	10.220635	-4.149608	0.0023671	0.08743	YES	-1.209448
CD19	0.3687263	11.533308	4.1518876	0.002359	0.08738	YES	-1.206148
GSDMD	-0.491461	8.5940567	-4.152951	0.0023552	0.08738	YES	-1.204609
ARAF	-0.576728	9.281117	-4.155985	0.0023444	0.08729	YES	-1.200218
RPL28	-0.319556	8.7224967	-4.162749	0.0023206	0.08662	YES	-1.190434
ZC3HC1	-0.402109	10.424515	-4.163858	0.0023167	0.08662	YES	-1.188829
TNFAIP3	0.3173422	9.4942302	4.165484	0.0023111	0.08662	YES	-1.186479
RPS21	0.3422661	12.84415	4.1664055	0.0023079	0.08662	YES	-1.185147
MAN1B1	-0.282546	9.1475555	-4.16689	0.0023062	0.08662	YES	-1.184447
CFAP36	-0.323928	7.8551094	-4.168257	0.0023014	0.08662	YES	-1.182471
SC5D	0.2732367	9.2085497	4.1688588	0.0022993	0.08662	YES	-1.181601
ERLEC1	0.3078281	8.987735	4.1700842	0.0022951	0.08662	YES	-1.179831
GMCL1	0.3492454	8.279143	4.1727936	0.0022857	0.08662	YES	-1.175916
DNAAF5	0.5868414	10.415125	4.1738094	0.0022822	0.08662	YES	-1.174449
DYRK2	0.4095942	8.620361	4.1771058	0.0022709	0.08662	YES	-1.169688
PPA2	-0.37548	10.095673	-4.177596	0.0022693	0.08662	YES	-1.16898
SNORD78	-0.640135	7.0123221	-4.179216	0.0022637	0.08662	YES	-1.166642
ARL2	-0.598577	11.777857	-4.180725	0.0022586	0.08662	YES	-1.164464
SNORD12	-0.250811	7.7018864	-4.181355	0.0022565	0.08662	YES	-1.163554
FCGBP	-0.450051	9.1907201	-4.181403	0.0022563	0.08662	YES	-1.163485
PSTK	-0.280605	7.5630829	-4.181473	0.0022561	0.08662	YES	-1.163385
MMGT1	0.250903	9.7696131	4.1820911	0.002254	0.08662	YES	-1.162492
LHFP	0.3109262	9.1135189	4.1826076	0.0022522	0.08662	YES	-1.161747
SNORD80	-0.625317	8.9585358	-4.182677	0.002252	0.08662	YES	-1.161647
SPRED1	0.4681403	9.1751319	4.1853003	0.0022431	0.08662	YES	-1.157862
SMG7	0.2953288	8.7681377	4.1854522	0.0022426	0.08662	YES	-1.157643
SUPT16H	0.4148476	11.971469	4.1860792	0.0022405	0.08662	YES	-1.156738
SNORD11B	-0.33177	7.1684062	-4.18636	0.0022395	0.08662	YES	-1.156333
TSC22D2	0.3035928	8.3325944	4.1870816	0.0022371	0.08662	YES	-1.155292
CMTM8	0.4460071	9.4365711	4.1884388	0.0022325	0.08662	YES	-1.153335

RRS1	0.3405411	10.007989	4.1904225	0.0022259	0.08662	YES	-1.150474
SCARNA14	-0.298122	7.9660397	-4.192848	0.0022178	0.08662	YES	-1.146977
THBS3	-0.409641	7.3322706	-4.194926	0.0022108	0.08662	YES	-1.143982
ROBO4	0.2777217	6.9548995	4.197771	0.0022014	0.08662	YES	-1.139883
BOD1	-0.291461	10.040953	-4.197856	0.0022011	0.08662	YES	-1.13976
OR9A4	0.2653749	7.3744279	4.1986939	0.0021984	0.08662	YES	-1.138553
SNORA62	-0.300914	8.4283527	-4.20239	0.0021862	0.08662	YES	-1.13323
MFGE8	-0.370448	8.8433603	-4.203694	0.0021819	0.08662	YES	-1.131352
TBCD	0.2831544	7.8611447	4.2059989	0.0021743	0.08662	YES	-1.128034
JSRP1	-0.444701	7.8745944	-4.206571	0.0021725	0.08662	YES	-1.12721
RPS4Y2	-0.456238	9.5526027	-4.207517	0.0021694	0.08662	YES	-1.125849
KIAA2026	0.2788741	7.0891599	4.2092287	0.0021638	0.08662	YES	-1.123385
PIGH	-0.363521	8.2602416	-4.213122	0.0021512	0.08662	YES	-1.117784
BLOC1S1	0.3198754	9.0975593	4.2186077	0.0021336	0.08662	YES	-1.109896
UBR4	0.6278544	9.7553913	4.2222411	0.002122	0.08662	YES	-1.104673
TMEM108	-0.412236	7.2088389	-4.222826	0.0021201	0.08662	YES	-1.103833
SNORA73B	-0.41459	8.7413759	-4.226693	0.0021079	0.08662	YES	-1.098278
VAC14	0.437525	8.6014687	4.227585	0.002105	0.08662	YES	-1.096996
SNORA3B	-0.419841	8.388816	-4.230363	0.0020963	0.08662	YES	-1.093006
HLA-G	-0.275504	8.1239788	-4.230711	0.0020952	0.08662	YES	-1.092507
DGCR2	0.3628472	7.8266626	4.231141	0.0020938	0.08662	YES	-1.09189
MCEE	-0.388709	9.6089155	-4.23457	0.0020831	0.08662	YES	-1.086968
RAB22A	0.4244471	9.2703643	4.2387978	0.00207	0.08662	YES	-1.080902
CCDC92	-0.466066	8.4202565	-4.239258	0.0020685	0.08662	YES	-1.080242
FKBP5	0.4859042	10.058168	4.2423295	0.002059	0.08662	YES	-1.075837
B9D2	-0.319358	7.9934549	-4.245464	0.0020494	0.08662	YES	-1.071343
ALDOA	0.5232332	10.139258	4.2480822	0.0020414	0.08662	YES	-1.06759
SRRM2	0.4940909	10.51131	4.2485997	0.0020398	0.08662	YES	-1.066849
RC3H1	0.3791236	7.0181933	4.2499138	0.0020358	0.08662	YES	-1.064966
PTPN6	0.2861145	7.8107802	4.25131	0.0020316	0.08662	YES	-1.062965
KRAS	0.4013945	8.723745	4.2519199	0.0020297	0.08662	YES	-1.062092
NDUFS3	-0.328165	12.155557	-4.25259	0.0020277	0.08662	YES	-1.061132
RECQL	0.2932169	8.4810573	4.2547877	0.002021	0.08662	YES	-1.057984
PLAGL2	0.5367949	8.78622	4.2590968	0.002008	0.08662	YES	-1.051815
FAM206A	0.2721392	8.6317031	4.2636444	0.0019944	0.08662	YES	-1.045307
UQCR10	-0.304837	9.5218161	-4.264271	0.0019926	0.08662	YES	-1.044411
H2AFZ	0.3128234	13.708927	4.2668038	0.001985	0.08662	YES	-1.040788
TLK2	0.324072	8.5542599	4.2693311	0.0019776	0.08662	YES	-1.037174
JMJD8	-0.397437	10.454791	-4.27017	0.0019751	0.08662	YES	-1.035975
GTF2H1	-0.348918	7.8911269	-4.276988	0.0019551	0.08662	YES	-1.026231
MYC	-0.325505	11.471666	-4.281791	0.0019411	0.08662	YES	-1.019371
TMEM261	-0.303314	8.511167	-4.281849	0.001941	0.08662	YES	-1.019288
CNTRL	0.3959374	8.46135	4.2828279	0.0019381	0.08662	YES	-1.017891
NFE2L2	0.3471542	9.3685398	4.2898794	0.0019179	0.08662	YES	-1.007827
BTK	-0.405014	10.802885	-4.293445	0.0019077	0.08662	YES	-1.002741

KLF6	0.3974336	8.7172562	4.2972237	0.001897	0.08652	YES	-0.997354
BNIP2	0.2954481	9.1428763	4.2973659	0.0018966	0.08652	YES	-0.997151
UPF2	0.3708086	8.8513343	4.2975652	0.001896	0.08652	YES	-0.996867
SNRPA1	0.3812997	11.889081	4.3038663	0.0018783	0.08648	YES	-0.987889
BASP1	0.4019649	12.215356	4.304262	0.0018772	0.08648	YES	-0.987325
SCARNA23	-0.365871	7.3460017	-4.310148	0.0018608	0.08622	YES	-0.978944
CLCN7	-0.371446	10.184934	-4.311856	0.0018561	0.08622	YES	-0.976513
TMEM267	-0.388669	8.7522551	-4.314409	0.0018491	0.08622	YES	-0.97288
EXOSC8	-0.52322	9.7606609	-4.316164	0.0018443	0.08622	YES	-0.970383
SLC25A1	0.3677961	8.9886143	4.3164346	0.0018435	0.08622	YES	-0.969998
HECTD4	0.3628447	7.9837813	4.3173328	0.0018411	0.08622	YES	-0.968721
RELA	0.366943	7.6327374	4.3248585	0.0018206	0.08599	YES	-0.958021
NSDHL	-0.363763	9.8847412	-4.326107	0.0018172	0.08599	YES	-0.956247
IL10	-0.336243	9.4259342	-4.330184	0.0018063	0.08587	YES	-0.950455
SPRYD7	0.3447671	8.6494842	4.3363723	0.0017897	0.08536	YES	-0.941669
TRMT12	-0.319683	9.3466602	-4.339402	0.0017817	0.08526	YES	-0.937369
PGS1	0.3122629	8.7659029	4.3429347	0.0017724	0.08509	YES	-0.932358
TPRG1L	-0.34508	9.6393527	-4.348078	0.0017589	0.08473	YES	-0.925066
PPP6R1	0.3457826	8.3403226	4.3490591	0.0017564	0.08473	YES	-0.923674
HIST1H3G	-0.260178	7.0453698	-4.351034	0.0017513	0.08473	YES	-0.920875
SAT2	-0.294084	7.9478812	-4.352789	0.0017467	0.08473	YES	-0.918389
CMAS	0.3204889	10.473888	4.3530313	0.0017461	0.08473	YES	-0.918046
CTSD	0.293899	7.7395319	4.3586952	0.0017315	0.08473	YES	-0.910024
TMEM126B	-0.457915	11.36622	-4.360917	0.0017258	0.08473	YES	-0.906878
GEMIN6	-0.268633	10.097041	-4.374663	0.0016911	0.08338	YES	-0.887437
PATL1	0.3046733	10.3133	4.3775807	0.0016838	0.0833	YES	-0.883313
BCAT1	0.4434478	11.353572	4.3777095	0.0016835	0.0833	YES	-0.883131
EIF4B	0.2768911	12.708895	4.3789556	0.0016804	0.0833	YES	-0.881371
RRM1	0.4384879	11.814434	4.3800448	0.0016777	0.0833	YES	-0.879832
HNRNPD	0.3099594	13.185773	4.4041095	0.0016191	0.08121	YES	-0.845888
KIAA0922	0.4421252	9.9769486	4.4049186	0.0016172	0.08121	YES	-0.844748
ASNS	-0.444008	10.11329	-4.414359	0.0015949	0.08054	YES	-0.831458
MCM5	0.4239516	9.8024177	4.417315	0.0015879	0.08047	YES	-0.8273
FAHD2A	-0.344572	7.656533	-4.420079	0.0015815	0.08042	YES	-0.823413
PCDHB9	-0.509005	8.2196146	-4.436461	0.0015438	0.07878	YES	-0.800399
PABPC4	0.5873888	11.576767	4.4408544	0.0015339	0.07855	YES	-0.794235
FAM76A	-0.331536	7.1492784	-4.441704	0.001532	0.07855	YES	-0.793043
POGLUT1	-0.316394	8.4801903	-4.442613	0.00153	0.07855	YES	-0.791767
SAP130	0.3448554	8.9362001	4.4443002	0.0015262	0.07855	YES	-0.789402
MRM3	-0.5049	10.165468	-4.447604	0.0015188	0.07855	YES	-0.78477
PRKDC	0.3759817	8.9070772	4.4484168	0.001517	0.07855	YES	-0.783631
NOP56	-0.372323	10.578282	-4.450175	0.0015131	0.07855	YES	-0.781166
RRM2	0.471997	8.8303923	4.4540376	0.0015045	0.07855	YES	-0.775755
RNU1-28P	-0.5677	9.0389698	-4.45668	0.0014987	0.07855	YES	-0.772055
IGF2R	0.3364373	9.5680726	4.4627016	0.0014855	0.07855	YES	-0.763626

RPSA	-0.433901	11.209172	-4.46567	0.0014791	0.0785	YES	-0.759474
MYO1G	0.4934739	8.0623548	4.4681332	0.0014737	0.0785	YES	-0.756028
MTMR9	0.3215538	8.6596353	4.4694387	0.0014709	0.0785	YES	-0.754202
FAM153B	-0.431765	7.732812	-4.469734	0.0014703	0.0785	YES	-0.753789
SNORA4	-0.274731	7.0948635	-4.475247	0.0014585	0.0785	YES	-0.746083
CKAP5	0.3495913	9.3319654	4.4795422	0.0014493	0.07834	YES	-0.740084
CASK	0.294574	8.075771	4.4824767	0.0014431	0.0783	YES	-0.735986
SLC35C1	0.4095152	7.8977881	4.4829059	0.0014422	0.0783	YES	-0.735387
HAUS2	-0.548661	9.0052612	-4.487538	0.0014325	0.0783	YES	-0.728921
RDH10	0.3822623	8.3353962	4.4895046	0.0014284	0.0783	YES	-0.726178
ZFAND2A	-0.495749	9.1516139	-4.493308	0.0014204	0.07823	YES	-0.720873
NIN	0.3476278	8.3990935	4.4961154	0.0014146	0.07821	YES	-0.71696
ALKBH4	-0.3381	7.4044777	-4.503449	0.0013996	0.07767	YES	-0.706741
SNORA16A	-0.454239	8.054666	-4.505905	0.0013946	0.07767	YES	-0.703322
PRR11	0.4021797	7.9482665	4.5101384	0.001386	0.0775	YES	-0.697429
FOXO3	0.3613108	7.9739069	4.5166846	0.0013728	0.07706	YES	-0.688322
FDFT1	-0.335125	10.978363	-4.521358	0.0013635	0.07683	YES	-0.681825
DDB2	-0.291015	8.2756746	-4.521672	0.0013629	0.07683	YES	-0.68139
TAF4	0.4603513	8.9050462	4.5240324	0.0013582	0.07683	YES	-0.678109
ALG5	-0.2854	9.8714091	-4.528946	0.0013485	0.07683	YES	-0.671283
PSMA2	-0.340254	9.6578209	-4.529141	0.0013481	0.07683	YES	-0.671013
SNORD49A	-0.368823	7.6190487	-4.529723	0.001347	0.07683	YES	-0.670205
RNASET2	-0.618649	10.581403	-4.536376	0.001334	0.07683	YES	-0.660971
ZNHIT3	-0.361702	10.10866	-4.541309	0.0013244	0.07671	YES	-0.654129
TRRAP	0.4613454	10.714928	4.5420328	0.0013231	0.07671	YES	-0.653125
XPC	0.4698405	9.1414916	4.5456377	0.0013161	0.07671	YES	-0.648128
STIM1	0.3309913	8.0526583	4.5467071	0.0013141	0.07671	YES	-0.646646
PTBP3	0.3737621	10.630245	4.5508247	0.0013063	0.07671	YES	-0.640942
HNRNPR	0.3752977	10.408779	4.5592213	0.0012904	0.07625	YES	-0.629318
SNORA18	-0.362182	8.9507249	-4.56013	0.0012887	0.07625	YES	-0.628061
RB1	0.3286626	8.2015369	4.5684135	0.0012733	0.07585	YES	-0.616606
PPFIBP2	-0.40865	9.1560852	-4.573067	0.0012648	0.07565	YES	-0.610176
UBN2	0.2901026	7.1904362	4.5856312	0.0012419	0.07459	YES	-0.592831
CEP95	-0.345383	9.4327783	-4.59027	0.0012336	0.0744	YES	-0.586434
FAR1	0.3954747	9.0543801	4.5941485	0.0012267	0.07429	YES	-0.581089
RPL32P18	-0.386506	12.679079	-4.60133	0.0012141	0.07383	YES	-0.571197
UBAP2L	0.8030815	10.027091	4.6017525	0.0012133	0.07383	YES	-0.570615
C5	-0.442393	7.8423889	-4.610275	0.0011985	0.07349	YES	-0.558888
SNORD76	-0.353588	7.2053984	-4.614247	0.0011916	0.07338	YES	-0.553427
IGF2BP3	0.393303	10.096522	4.6255847	0.0011723	0.0725	YES	-0.537851
RANGRF	-0.460532	7.6682645	-4.626979	0.0011699	0.0725	YES	-0.535936
PDCD4	0.3806225	9.6245142	4.6280051	0.0011682	0.0725	YES	-0.534528
RPL14	-0.735019	10.290201	-4.644832	0.0011402	0.07142	YES	-0.511457
SNORD12C	-0.601419	7.6160572	-4.645631	0.0011389	0.07142	YES	-0.510363
DNAJC13	0.3322394	8.1478813	4.6514687	0.0011294	0.07136	YES	-0.502371

RNMT	0.3680439	9.070909	4.6524297	0.0011278	0.07136	YES	-0.501055
PIAS1	0.3561743	8.9724326	4.6533639	0.0011263	0.07136	YES	-0.499777
C1orf174	-0.343562	10.078531	-4.657802	0.0011191	0.07136	YES	-0.493706
SENP2	0.3413569	8.7978304	4.6594625	0.0011165	0.07136	YES	-0.491436
RSL24D1	-0.476632	12.580525	-4.670317	0.0010992	0.07099	YES	-0.476604
COX19	-0.405843	8.2017182	-4.671551	0.0010973	0.07099	YES	-0.474918
TMEM44	-0.333615	7.8389569	-4.672392	0.0010959	0.07099	YES	-0.47377
PPP4R3A	0.296125	8.2149308	4.6735423	0.0010941	0.07099	YES	-0.472201
PAPD5	0.4974396	8.432534	4.6798009	0.0010843	0.07099	YES	-0.463661
ZNF185	-0.308549	7.1341198	-4.69926	0.0010545	0.06964	YES	-0.437152
ITPR1	0.330603	8.4724737	4.7047632	0.0010463	0.06941	YES	-0.429665
BICD2	0.31479	8.7327014	4.7062485	0.001044	0.06941	YES	-0.427646
FEM1C	0.3972039	8.6011721	4.7073768	0.0010423	0.06941	YES	-0.426112
SON	0.3692691	8.6033893	4.7120164	0.0010355	0.06941	YES	-0.419806
HELZ	0.5092266	8.1641908	4.7163828	0.001029	0.06941	YES	-0.413876
SNORD52	-0.477888	8.0613531	-4.721087	0.0010221	0.06939	YES	-0.40749
TRIP13	0.2976433	10.066174	4.7223916	0.0010202	0.06939	YES	-0.405719
CREB5	0.3957274	8.4787735	4.7301336	0.001009	0.06914	YES	-0.395219
EIF2AK4	-0.397453	8.1979401	-4.731697	0.0010068	0.06914	YES	-0.3931
MYH9	0.5314797	11.514327	4.7460824	0.0009863	0.06822	YES	-0.373619
DNAJC24	0.2834477	8.1277989	4.7461036	0.0009863	0.06822	YES	-0.373591
B4GALT3	-0.365442	9.5769211	-4.755356	0.0009734	0.06797	YES	-0.361079
ZNF787	-0.348483	9.7768739	-4.756573	0.0009717	0.06797	YES	-0.359435
TRIM33	0.4220316	9.0131188	4.7658927	0.0009589	0.06761	YES	-0.346849
PIK3C2A	0.4214992	7.959964	4.7660364	0.0009587	0.06761	YES	-0.346655
FCRL4	0.5472122	8.137424	4.7665852	0.000958	0.06761	YES	-0.345914
G3BP1	-0.35674	9.0190082	-4.771518	0.0009513	0.06761	YES	-0.339258
SCNN1D	-0.366128	7.7975966	-4.771668	0.0009511	0.06761	YES	-0.339057
RBM45	-0.443057	9.2854808	-4.777527	0.0009432	0.06761	YES	-0.331158
DHX29	0.2918002	8.9132552	4.7798087	0.0009401	0.06761	YES	-0.328082
TCF4	0.4780922	8.5213274	4.7804405	0.0009393	0.06761	YES	-0.327231
SRM	0.6745284	11.267331	4.7808718	0.0009387	0.06761	YES	-0.32665
IDH3A	0.3586765	9.9508651	4.7837915	0.0009348	0.06761	YES	-0.322717
MCM4	0.3840713	10.665937	4.7906804	0.0009257	0.06761	YES	-0.313444
SF3A2	0.3944234	10.524144	4.7918995	0.0009241	0.06761	YES	-0.311803
AEBP2	0.4585976	8.9132445	4.7953377	0.0009196	0.06761	YES	-0.307179
IGLL3P	-0.412543	8.6901571	-4.797469	0.0009169	0.06761	YES	-0.304313
CS	0.3648075	11.798088	4.800473	0.000913	0.06761	YES	-0.300275
ZNF106	0.4295808	10.078843	4.8008953	0.0009124	0.06761	YES	-0.299707
NDUFB9	-0.632607	10.913445	-4.802561	0.0009103	0.06761	YES	-0.297469
KIF2A	0.3032496	9.1816535	4.8055333	0.0009065	0.06761	YES	-0.293476
LOC1001348	-0.350949	8.640509	-4.814721	0.0008947	0.06761	YES	-0.281142
CLK1	-0.367658	8.2617489	-4.815417	0.0008939	0.06761	YES	-0.280209
DONSON	0.295368	8.5549592	4.8157654	0.0008934	0.06761	YES	-0.279742
MYCBP	-0.316606	7.3492604	-4.818985	0.0008894	0.06761	YES	-0.275424

HERC1	0.4290596	8.6874097	4.8201566	0.0008879	0.06761	YES	-0.273853
SNORD65	-0.554399	8.4598776	-4.838635	0.000865	0.06761	YES	-0.249108
COX7B	-0.542746	11.585778	-4.841012	0.0008621	0.06761	YES	-0.245928
CHAC2	-0.400573	8.0576658	-4.848348	0.0008532	0.06761	YES	-0.236124
LPP	0.4646366	8.3988091	4.8511613	0.0008499	0.06761	YES	-0.232365
TTC3	0.6700484	10.757742	4.8520296	0.0008488	0.06761	YES	-0.231206
SAFB2	0.4871093	9.6651863	4.8581084	0.0008416	0.06761	YES	-0.223091
RNY3	-0.320972	8.3661763	-4.85889	0.0008407	0.06761	YES	-0.222048
FH	-0.63588	11.245651	-4.859154	0.0008404	0.06761	YES	-0.221696
HEXDC	-0.554882	7.5462996	-4.863244	0.0008355	0.06761	YES	-0.216241
SF3B6	-0.433722	11.758145	-4.869759	0.0008279	0.06761	YES	-0.207556
COX11	-0.322567	8.1173456	-4.869846	0.0008278	0.06761	YES	-0.207441
SETD2	0.5512421	9.4395948	4.8731909	0.0008239	0.06761	YES	-0.202985
LOC1001282	-0.36918	7.2784188	-4.875254	0.0008215	0.06761	YES	-0.200238
ZNF600	-0.327345	7.3520502	-4.876333	0.0008203	0.06761	YES	-0.198801
CNOT6	0.3540679	8.4684898	4.8904421	0.0008042	0.06761	YES	-0.180034
U2SURP	0.4132155	9.1664161	4.9001701	0.0007933	0.06761	YES	-0.167113
PURB	0.4384706	9.6333493	4.9021791	0.0007911	0.06761	YES	-0.164447
KIDINS220	0.4018704	9.0031908	4.9035223	0.0007896	0.06761	YES	-0.162665
SUZ12	0.5085677	11.645114	4.9109741	0.0007814	0.06761	YES	-0.152783
AP3M1	0.3321573	9.343345	4.9125487	0.0007796	0.06761	YES	-0.150696
UQCC1	-0.351111	8.9196854	-4.914373	0.0007777	0.06761	YES	-0.148278
LINC01567	-0.415897	7.3604754	-4.916159	0.0007757	0.06761	YES	-0.145913
POLR2A	0.6272426	10.323166	4.9254046	0.0007657	0.06761	YES	-0.133672
SNORD57	-0.381824	7.682811	-4.932385	0.0007583	0.06761	YES	-0.12444
RPP21	-0.328611	11.57337	-4.954386	0.0007354	0.06708	YES	-0.095396
MOK	-0.36178	8.0201408	-4.956052	0.0007337	0.06708	YES	-0.0932
PRB1	0.3406179	6.9494213	4.9759058	0.0007137	0.06592	YES	-0.067066
EFCAB14	0.4562951	9.0422342	4.9761321	0.0007134	0.06592	YES	-0.066768
ARID3A	0.437232	8.1250322	4.9964837	0.0006935	0.06488	YES	-0.040048
GOLGA3	0.3523888	9.8278416	4.9992956	0.0006908	0.06488	YES	-0.036362
SDAD1	0.4424186	10.652185	5.0161509	0.0006749	0.06396	YES	-0.014292
ZFHX3	0.6691302	8.650255	5.016763	0.0006743	0.06396	YES	-0.013492
PCM1	0.5201082	8.919421	5.0194412	0.0006718	0.06396	YES	-0.00999
CLINT1	0.3756763	10.493427	5.0302679	0.0006618	0.06396	YES	0.0041549
ATF4	-0.355804	10.064861	-5.052775	0.0006415	0.06242	YES	0.033497
ZDHHC7	0.3617191	9.6847827	5.0542279	0.0006403	0.06242	YES	0.035388
TMEM138	-0.458906	8.8820486	-5.059827	0.0006353	0.06242	YES	0.0426734
SNORA8	-0.46722	8.3845939	-5.065014	0.0006308	0.06242	YES	0.0494163
PRSS53	-0.31732	7.3214835	-5.069787	0.0006267	0.06242	YES	0.0556191
LRRC58	0.6521443	8.5409986	5.0713225	0.0006253	0.06242	YES	0.0576129
IFT20	-0.427895	7.8797624	-5.075824	0.0006215	0.06242	YES	0.0634571
KLK3	0.3082399	6.985592	5.076665	0.0006208	0.06242	YES	0.0645487
ASXL2	0.5711447	8.9972422	5.0884124	0.0006108	0.06242	YES	0.0797826
CCDC28B	-0.325231	9.8468349	-5.089292	0.0006101	0.06242	YES	0.0809223

SPSB3	-0.495807	8.9093487	-5.091583	0.0006081	0.06242	YES	0.0838901
SNORA1	-0.328142	7.5119028	-5.097261	0.0006034	0.06242	YES	0.0912416
CBL	0.3660765	8.2101361	5.0990268	0.000602	0.06242	YES	0.0935275
DNAAF2	-0.374342	9.4883389	-5.109613	0.0005933	0.06242	YES	0.1072165
ARHGEF2	0.3640063	11.322476	5.1117267	0.0005916	0.06242	YES	0.1099479
PLA2G2D	-0.349589	8.0607617	-5.112474	0.0005909	0.06242	YES	0.1109134
AGO2	0.7283998	10.13184	5.119608	0.0005852	0.06242	YES	0.1201246
EIF2B5	-0.364626	9.6332051	-5.121333	0.0005838	0.06242	YES	0.1223501
NUP133	0.3728175	9.911472	5.1251308	0.0005808	0.06242	YES	0.1272496
IARS2	0.3344222	11.072906	5.1505853	0.0005609	0.06242	YES	0.1600227
PAG1	0.3882679	8.3350044	5.1513926	0.0005603	0.06242	YES	0.1610603
E4F1	-0.459738	9.6151829	-5.15235	0.0005596	0.06242	YES	0.1622911
MAP2K1	0.4361635	10.399692	5.1591759	0.0005544	0.06242	YES	0.1710587
MKI67	0.3775115	7.389376	5.1595151	0.0005541	0.06242	YES	0.1714942
LARP7	-0.365575	9.5077359	-5.161069	0.0005529	0.06242	YES	0.1734892
POLR1C	-0.317935	10.548351	-5.169993	0.0005462	0.06242	YES	0.1849376
EP400	0.4848055	8.8107937	5.1816842	0.0005376	0.06242	YES	0.1999155
DAPP1	-0.442096	9.4804564	-5.196922	0.0005266	0.06242	YES	0.2194027
ZNF223	-0.674846	9.1144976	-5.203466	0.0005219	0.06242	YES	0.2277601
ATAD2	0.3694829	8.9862374	5.2083862	0.0005184	0.06242	YES	0.2340386
KLHL8	0.365969	8.8286373	5.2377565	0.0004982	0.06059	YES	0.2714337
RPL23AP5	-0.928495	9.8559443	-5.248141	0.0004912	0.06025	YES	0.2846207
ZFP36L2	0.3516322	7.9704709	5.248373	0.0004911	0.06025	YES	0.2849153
SERPINB6	-0.649411	8.7046338	-5.250523	0.0004897	0.06025	YES	0.2876431
SLC12A9	-0.567244	9.1734458	-5.252297	0.0004885	0.06025	YES	0.2898931
PSORS1C1	-0.4412	7.7021261	-5.253601	0.0004876	0.06025	YES	0.2915474
HCLS1	0.4789125	11.858632	5.2631579	0.0004814	0.06025	YES	0.3036589
PHB	-0.487549	10.941006	-5.28394	0.0004681	0.06025	YES	0.3299435
HERC2	0.4218127	8.3253664	5.289998	0.0004643	0.06025	YES	0.3375918
LINC00294	0.3846528	8.5984939	5.2917212	0.0004632	0.06025	YES	0.3397663
SNORD16	-0.476218	8.9045727	-5.324601	0.0004432	0.0588	YES	0.3811612
LARP4B	0.4227478	10.307605	5.3444058	0.0004316	0.05779	YES	0.4060076
HDAC8	-0.381642	7.3022637	-5.350845	0.0004279	0.05779	YES	0.4140722
CENPF	0.7524872	8.7435558	5.3566066	0.0004246	0.05779	YES	0.4212817
CEP55	0.3938852	9.7055491	5.3654153	0.0004196	0.05778	YES	0.4322939
NCOA6	0.3369058	9.3229429	5.3697032	0.0004172	0.05778	YES	0.4376497
TPR	0.74308	9.0600248	5.3711897	0.0004164	0.05778	YES	0.4395057
RAD23B	0.3886874	9.6626868	5.3719767	0.000416	0.05778	YES	0.4404881
BMP7	-0.873456	9.4809752	-5.384093	0.0004093	0.05778	YES	0.4556014
TAOK1	0.4182552	7.2838526	5.3915183	0.0004053	0.05778	YES	0.4648502
SELENOK	-0.40085	9.6121457	-5.391613	0.0004052	0.05778	YES	0.4649686
HIVEP1	0.3564093	7.9331196	5.3930443	0.0004044	0.05778	YES	0.4667499
NAA15	0.378792	8.8567875	5.4009053	0.0004002	0.05778	YES	0.4765301
CHAMP1	0.4469939	10.079789	5.4172871	0.0003916	0.05778	YES	0.4968782
FGD2	-0.542059	9.7409938	-5.420385	0.00039	0.05778	YES	0.5007211

LHPP	-0.4665	8.5929147	-5.426836	0.0003867	0.05778	YES	0.5087179
AFF2	0.3742053	7.4706896	5.456621	0.0003717	0.05771	YES	0.5455531
UHMK1	0.3494097	9.0955875	5.4573657	0.0003713	0.05771	YES	0.546472
LINC01931	-0.352454	7.0656701	-5.464158	0.000368	0.05771	YES	0.5548499
FAM20B	0.4332797	9.7297394	5.4678409	0.0003662	0.05771	YES	0.5593902
SNORD36A	-0.496269	8.7393543	-5.468461	0.0003659	0.05771	YES	0.5601538
KIF20B	0.5013197	9.1727339	5.46869	0.0003658	0.05771	YES	0.5604365
UBL3	0.3838611	8.5890529	5.4963102	0.0003527	0.05771	YES	0.5944066
YIF1A	-0.580011	10.457176	-5.504885	0.0003488	0.05771	YES	0.6049273
BRK1	-0.4162	9.3577961	-5.516895	0.0003433	0.05771	YES	0.6196419
PPP2R1A	0.4459573	11.560228	5.5641006	0.0003227	0.05541	YES	0.6772452
EIF4G3	0.4941631	10.103453	5.5744057	0.0003184	0.05532	YES	0.6897712
RIPK2	0.3650466	11.019183	5.5746206	0.0003183	0.05532	YES	0.6900322
PTPN11	0.4256548	10.680673	5.5770567	0.0003173	0.05532	YES	0.6929907
ANXA4	-0.391236	7.2101413	-5.577365	0.0003172	0.05532	YES	0.6933653
NCAPG2	0.3848185	8.3186601	5.5826557	0.000315	0.05532	YES	0.6997865
LIN54	0.3467491	8.168501	5.5829329	0.0003149	0.05532	YES	0.7001228
KAT6A	0.5141741	8.2521857	5.5966552	0.0003093	0.05532	YES	0.7167559
PHF13	0.4421157	9.5616983	5.6039931	0.0003063	0.05532	YES	0.7256375
CCT4	-0.391583	8.9183007	-5.652449	0.0002876	0.05524	YES	0.7840643
GMFG	-0.434963	9.2959616	-5.701328	0.00027	0.05255	YES	0.8426108
HECTD1	0.6445578	10.132086	5.7027824	0.0002695	0.05255	YES	0.8443463
SNORD68	-0.418201	8.8961089	-5.71374	0.0002658	0.05255	YES	0.8574144
UQCRC2	-0.588552	9.8105086	-5.735978	0.0002583	0.05235	YES	0.883876
SNORD3D	-0.742216	9.5255218	-5.773987	0.000246	0.05056	YES	0.9289148
TSEN2	-0.375334	9.82652	-5.779008	0.0002444	0.05056	YES	0.9348469
SPEN	0.6406778	9.8448646	5.7794962	0.0002443	0.05056	YES	0.9354237
RNU1-1	-0.650872	9.9729408	-5.782623	0.0002433	0.05056	YES	0.9391153
UPF3B	0.4148888	9.3423702	5.7827161	0.0002433	0.05056	YES	0.9392254
PDCD6IP	0.4925859	9.0657395	5.8156455	0.0002332	0.05056	YES	0.9780084
MDC1	0.5633572	10.203093	5.8179356	0.0002326	0.05056	YES	0.980699
HSPH1	0.4344882	12.162977	5.8318635	0.0002285	0.05056	YES	0.9970445
RNVU1-18	-0.724326	9.676721	-5.8354	0.0002275	0.05056	YES	1.0011896
PPIB	-0.457792	7.9335406	-5.838914	0.0002264	0.05056	YES	1.0053063
TMEM123	0.3632644	11.621199	5.8401073	0.0002261	0.05056	YES	1.0067043
TOP2B	0.6876777	10.661558	5.8414533	0.0002257	0.05056	YES	1.0082805
TMEM131	0.7798849	10.329983	5.8476531	0.0002239	0.05056	YES	1.0155366
MYCBP2	0.6967335	9.312245	5.8643579	0.0002192	0.05056	YES	1.0350566
SNORD4A	-0.431294	8.5002026	-5.864988	0.0002191	0.05056	YES	1.0357925
KIAA1147	0.3591777	9.8772568	5.8816042	0.0002145	0.05056	YES	1.0551619
ZMAT3	0.4034375	10.691912	5.8856737	0.0002134	0.05056	YES	1.059899
ASAP1	0.4687065	8.7253115	5.886554	0.0002132	0.05056	YES	1.0609234
WBP4	0.4617133	8.8492709	5.8897095	0.0002123	0.05056	YES	1.0645942
WASL	0.3963536	8.7601555	5.9050464	0.0002083	0.05056	YES	1.0824131
SNORA73A	-0.582935	8.760659	-5.917336	0.0002051	0.05056	YES	1.0966639

CAMP	-0.538966	8.3499081	-5.926587	0.0002027	0.05056	YES	1.107376
TANC1	0.4008202	8.5724128	5.9358952	0.0002003	0.05056	YES	1.1181391
NXT1	-0.448693	10.758284	-5.948461	0.0001972	0.05056	YES	1.1326471
FAM117B	0.4532182	8.9988936	6.0067389	0.0001833	0.05056	YES	1.1996041
SMC3	0.4859686	8.454624	6.0181169	0.0001807	0.05056	YES	1.2126129
LYRM4	-0.491921	8.8513346	-6.021702	0.0001799	0.05056	YES	1.2167079
PCNP	0.3876642	11.462735	6.0353517	0.0001769	0.05056	YES	1.2322786
CAPS2	-0.396845	7.5993797	-6.059781	0.0001716	0.05056	YES	1.260072
HNRNPAB	0.3981752	11.203413	6.0867713	0.000166	0.05056	YES	1.2906695
DPYSL2	0.3909232	10.649722	6.1142862	0.0001604	0.05056	YES	1.3217421
ARID1A	0.497696	10.258649	6.1668434	0.0001504	0.05056	YES	1.3807622
API5	0.424823	9.883942	6.1919115	0.0001458	0.05056	YES	1.4087594
KIF11	0.463654	8.9689009	6.1970211	0.0001449	0.05056	YES	1.4144539
SNORD21	-0.408478	7.700571	-6.234919	0.0001384	0.05056	YES	1.4565623
SNORD35A	-0.467401	7.5736891	-6.249143	0.000136	0.05056	YES	1.4723091
CHMP5	-0.402468	10.104483	-6.252428	0.0001354	0.05056	YES	1.4759402
CCNB1	-0.494472	8.5440193	-6.397759	0.0001137	0.04879	YES	1.6349484
SNORD3C	-0.554269	7.9483664	-6.443821	0.0001076	0.04757	YES	1.6846656
ZNF318	0.4412341	8.6322982	6.5420571	9.57E-05	0.04367	YES	1.7896155
MRPL48	-0.490624	9.1956331	-6.650211	8.43E-05	0.0397	YES	1.9034753
USP9X	0.4690854	8.0988872	6.6567567	8.37E-05	0.0397	YES	1.9103097
SNORA12	-0.558963	8.8083091	-6.701034	7.95E-05	0.0397	YES	1.956375
MRPS28	-0.54651	10.618758	-6.707603	7.89E-05	0.0397	YES	1.9631849
TMEM209	0.4973852	9.8400105	6.743926	7.56E-05	0.0397	YES	2.0007223
PRPF8	0.7605616	11.428231	7.0539971	5.32E-05	0.02984	YES	2.313338
KHDRBS1	0.5010839	12.073784	7.1328961	4.87E-05	0.02842	YES	2.3906902
CCL3L1	0.9372737	10.441397	7.1715526	4.66E-05	0.02837	YES	2.4282701
PRRC2C	0.8239481	10.227428	7.1746356	4.65E-05	0.02837	YES	2.4312583
S100A4	-0.448174	7.3687006	-7.18913	4.58E-05	0.02837	YES	2.4452889
TMEM163	-0.489601	7.2386352	-7.289783	4.10E-05	0.02837	YES	2.5419206
CDK6	0.90026	10.246447	7.3985143	3.64E-05	0.02656	YES	2.6447493
DUSP5	0.5053187	9.7845234	7.4606831	3.40E-05	0.02615	YES	2.7028247
SNORD3A	-0.562092	9.140554	-7.49378	3.29E-05	0.02615	YES	2.7335316
PHF23	-0.589685	9.2960415	-7.493971	3.28E-05	0.02615	YES	2.7337085
CCL22	0.8182662	10.659568	7.5452209	3.11E-05	0.02615	YES	2.7809682
RNVU1-7	-0.684313	9.2276234	-7.612205	2.90E-05	0.02615	YES	2.8422144
CEP350	0.7657227	8.536478	7.6354531	2.83E-05	0.02615	YES	2.863334
SYNCRIP	0.5061744	10.66446	7.6704371	2.72E-05	0.02615	YES	2.8949818
RNU11	-0.530012	8.0988361	-7.68861	2.67E-05	0.02615	YES	2.9113594
SNORA33	-0.504363	8.8898317	-7.701474	2.64E-05	0.02615	YES	2.9229264
RNU6ATAC	-0.623868	7.327218	-7.759986	2.48E-05	0.02615	YES	2.9752695
CCL3	1.4776538	10.400348	7.8480121	2.26E-05	0.02615	YES	3.0531923
EGR2	0.7513892	7.4070538	8.1300454	1.70E-05	0.02615	YES	3.2963244
XPO1	0.6042497	10.855066	8.3081187	1.42E-05	0.02615	YES	3.4448498
CCL3L3	1.1750513	11.625641	8.5694133	1.10E-05	0.02615	YES	3.6560532

SNORD36C	-0.788233	8.7797678	-8.63408	1.03E-05	0.02615	YES	3.707118
SCARNA9	-0.570813	9.098174	-8.668397	1.00E-05	0.02615	YES	3.734027
ZMIZ1	0.8222354	9.7702172	8.691173	9.80E-06	0.02615	YES	3.7518132
KIF14	0.6117222	8.4191252	8.8402458	8.51E-06	0.02615	YES	3.866816
CCL4L1	0.6903574	8.9877091	8.9296175	7.82E-06	0.02615	YES	3.9346028
MYH3	-0.337799	7.5994002	-3.910729	0.0034088	0.1001		-1.559507
MRPL15	-0.722702	10.25075	-3.903273	0.0034482	0.10106		-1.570563
INTS8	-0.657237	9.1200377	-3.898463	0.0034739	0.10154		-1.5777
MTHFD1L	0.2637922	10.419974	3.8969338	0.0034822	0.10154		-1.579969
NPEPL1	-0.420505	7.284723	-3.895383	0.0034905	0.10154		-1.58227
TLR9	0.4254814	8.2525751	3.8950174	0.0034925	0.10154		-1.582813
MCTS1	-0.665652	8.9151883	-3.89261	0.0035055	0.10164		-1.586387
LTB	-0.398532	10.249583	-3.891379	0.0035122	0.10164		-1.588215
TST	-0.685577	10.381068	-3.890514	0.0035169	0.10164		-1.5895
CRBN	-0.359204	8.0849787	-3.883437	0.0035556	0.10248		-1.600013
SYNE3	0.2759297	6.9364121	3.8823362	0.0035616	0.10248		-1.601649
BACE2	-0.265586	7.7329783	-3.87775	0.003587	0.10248		-1.608467
PPP1R14B	0.3122551	11.609788	3.8761158	0.0035961	0.10248		-1.610896
PEG10	0.3418602	8.055934	3.8759019	0.0035973	0.10248		-1.611214
DRAP1	0.4633383	10.254942	3.8753723	0.0036002	0.10248		-1.612002
RPL23	-0.395561	12.728608	-3.874651	0.0036042	0.10248		-1.613075
LIPA	-0.341885	10.062438	-3.871918	0.0036195	0.10248		-1.617139
HLA-DQB1	0.345044	8.7846182	3.8717037	0.0036207	0.10248		-1.617458
DPH5	-0.340389	9.6698716	-3.870311	0.0036285	0.10248		-1.619531
MTG1	-0.293918	7.6763614	-3.869987	0.0036303	0.10248		-1.620013
EIF5B	0.5104965	9.4306571	3.8699432	0.0036306	0.10248		-1.620077
RP9	-0.261402	9.8893755	-3.866992	0.0036472	0.10248		-1.624469
LRPPRC	0.3180652	10.031002	3.8666632	0.0036491	0.10248		-1.624958
MYO9A	0.3417982	7.9731332	3.8655963	0.0036551	0.10248		-1.626546
LYRM2	0.4974143	9.3343939	3.8650471	0.0036582	0.10248		-1.627364
ADCK2	-0.291839	9.4140714	-3.863575	0.0036666	0.10252		-1.629556
SLC25A36	0.3095633	8.4571431	3.8613284	0.0036793	0.10268		-1.6329
TMEM59L	0.2706044	7.0610695	3.8549918	0.0037157	0.10305		-1.642338
ETV6	0.3396833	9.7085699	3.8549262	0.003716	0.10305		-1.642435
TADA1	-0.322733	8.7052288	-3.854112	0.0037207	0.10305		-1.643648
ARID5B	0.2860464	8.7053732	3.8539864	0.0037215	0.10305		-1.643836
PEX6	0.2409389	7.4774747	3.8528344	0.0037281	0.10305		-1.645552
NINJ2	-0.419535	8.2679227	-3.85077	0.0037401	0.10319		-1.648629
SNORD51	-0.351316	7.2336473	-3.844021	0.0037794	0.10397		-1.658691
PDE12	0.2938177	9.0059188	3.8429881	0.0037855	0.10397		-1.660231
CEP41	0.2584906	8.4758358	3.8415438	0.003794	0.10397		-1.662385
SNORA6	-0.371495	8.3052519	-3.841058	0.0037968	0.10397		-1.66311
AICDA	-0.309036	8.1075876	-3.837355	0.0038187	0.10426		-1.668634
NCOA7	0.3304071	9.1115577	3.8368189	0.0038219	0.10426		-1.669434
PSMD4	0.254745	10.287375	3.8351444	0.0038319	0.10434		-1.671934

PYCR2	0.345118	9.9990019	3.833854	0.0038395	0.10435	-1.673859
SNORA13	-0.233728	7.599819	-3.831408	0.0038542	0.10456	-1.677511
RASL10A	-0.301598	7.0208572	-3.827662	0.0038767	0.10478	-1.683105
CIC	0.2690474	7.5315583	3.8269331	0.003881	0.10478	-1.684193
WASF2	0.516493	8.5434815	3.8263159	0.0038848	0.10478	-1.685115
SNORD74	-0.322575	7.3271617	-3.823191	0.0039037	0.10478	-1.689783
TMEM9B	-0.433009	9.4981855	-3.822446	0.0039082	0.10478	-1.690896
WNK1	0.3393043	8.0683818	3.82192	0.0039114	0.10478	-1.691682
TP53I13	-0.331497	9.1163584	-3.821584	0.0039134	0.10478	-1.692185
SNHG9	-0.288776	9.8616926	-3.820324	0.0039211	0.10478	-1.694068
IRF2BP2	0.2335244	7.8752806	3.8193837	0.0039269	0.10478	-1.695472
CSNK2B	0.3638444	11.423917	3.8181352	0.0039345	0.10479	-1.697338
YIPF2	-0.24929	6.9808016	-3.813667	0.0039619	0.10507	-1.704018
EBI3	0.3530325	11.784537	3.8131637	0.003965	0.10507	-1.704771
RAMP2-AS1	-0.279043	11.671749	-3.810127	0.0039838	0.10507	-1.709312
LOC646034	-0.250639	7.4580486	-3.809352	0.0039886	0.10507	-1.710471
YARS	-0.283727	11.64404	-3.809251	0.0039892	0.10507	-1.710623
ZBTB45	-0.249041	7.5096448	-3.807366	0.004001	0.10507	-1.713442
PRPF4B	-0.391461	8.1696172	-3.806572	0.0040059	0.10507	-1.71463
SETD6	-0.286604	8.501092	-3.806519	0.0040062	0.10507	-1.71471
LANCL2	-0.285076	8.2849777	-3.804996	0.0040157	0.10507	-1.716988
BMP8B	-0.408472	7.694592	-3.804807	0.0040169	0.10507	-1.717271
TMEM14C	-0.308265	11.317702	-3.803336	0.0040261	0.10512	-1.719473
MCM3	0.3335009	11.490386	3.7943357	0.004083	0.10641	-1.732948
L2HGDH	0.3855136	8.5512011	3.7912935	0.0041024	0.10664	-1.737505
TMA7	0.320577	12.566911	3.788169	0.0041224	0.10664	-1.742187
LAMC3	-0.342151	7.3228728	-3.786336	0.0041342	0.10664	-1.744934
MYLIP	0.2403088	10.196575	3.7843473	0.004147	0.10664	-1.747915
PTMA	-0.568534	11.366691	-3.784015	0.0041492	0.10664	-1.748414
MFSD3	-0.404665	10.264831	-3.781644	0.0041646	0.10664	-1.751968
CEBPG	0.271317	9.4781216	3.7798325	0.0041763	0.10664	-1.754684
ICK	0.2450841	7.8360066	3.7795499	0.0041782	0.10664	-1.755108
ZNF674-AS1	0.3869181	7.2515424	3.7794599	0.0041788	0.10664	-1.755243
SNORD38A	-0.253958	7.6381479	-3.778844	0.0041828	0.10664	-1.756167
MAL	-0.299414	7.3049295	-3.778589	0.0041845	0.10664	-1.756549
NENF	-0.424353	10.625653	-3.778526	0.0041849	0.10664	-1.756644
ORC5	-0.255983	9.5718764	-3.778054	0.004188	0.10664	-1.757352
DANCR	-0.352526	10.607079	-3.777141	0.0041939	0.10664	-1.758721
PICALM	0.3156711	8.6908269	3.7745151	0.0042111	0.10689	-1.762661
LINC01300	-0.264484	7.671139	-3.773399	0.0042185	0.10689	-1.764335
UNC119	-0.262179	8.6571845	-3.772255	0.004226	0.1069	-1.766051
UHRF2	-0.342991	8.1384969	-3.766365	0.0042651	0.1077	-1.774893
GNB1	0.3638052	12.518178	3.7614097	0.0042982	0.10794	-1.782334
CHCHD3	-0.282638	9.9455173	-3.760893	0.0043017	0.10794	-1.78311
DHX33	0.5095594	9.8841931	3.7605219	0.0043042	0.10794	-1.783667

SURF6	0.4172193	10.492323	3.7588603	0.0043154	0.10794	-1.786163
RNU1-3	-0.605905	9.3437542	-3.758751	0.0043161	0.10794	-1.786327
MFSD14A	-0.326402	8.2350442	-3.758325	0.004319	0.10794	-1.786968
PRKCA	0.300917	7.7563157	3.7564734	0.0043315	0.10797	-1.78975
SETDB1	0.3231642	8.6013657	3.7559594	0.004335	0.10797	-1.790522
ING2	0.2531607	8.8805243	3.75338	0.0043525	0.10822	-1.794398
OSGIN2	0.4101672	9.1936161	3.7500834	0.004375	0.10859	-1.799354
MINPP1	-0.333417	7.8699304	-3.747924	0.0043898	0.10878	-1.802601
CTDSP2	0.2787772	10.248645	3.7460612	0.0044026	0.10878	-1.805402
ACTN4	0.5740863	8.7769931	3.7446958	0.004412	0.10878	-1.807455
SESTD1	0.3227729	7.9427057	3.7446379	0.0044124	0.10878	-1.807543
FNDC3B	0.287937	7.6843341	3.7429719	0.0044239	0.10888	-1.810049
PFKFB3	0.3213483	9.2306092	3.740491	0.0044411	0.10912	-1.813781
KHNYN	0.3186568	7.7963472	3.7375552	0.0044616	0.10936	-1.818199
HLA-DRA	0.2749485	13.875571	3.7366292	0.004468	0.10936	-1.819592
ATIC	0.3523742	12.380127	3.735426	0.0044765	0.10936	-1.821403
KPNA4	0.2692714	10.557735	3.734812	0.0044808	0.10936	-1.822328
ZNF576	-0.319731	8.3975793	-3.733527	0.0044898	0.1094	-1.824262
TDRD7	-0.347818	8.1046295	-3.732321	0.0044983	0.10942	-1.826078
TTC27	-0.526448	9.9998793	-3.730805	0.004509	0.1095	-1.82836
SAP30	-0.409389	9.5370426	-3.729498	0.0045182	0.10954	-1.830329
EDEM2	-0.243809	8.4274531	-3.727842	0.00453	0.10964	-1.832822
MAP3K14	0.2782101	8.0326774	3.7253661	0.0045476	0.10989	-1.836552
SNORA28	-0.278455	7.641407	-3.723843	0.0045584	0.10997	-1.838846
CD247	-0.392418	8.3446053	-3.719049	0.0045928	0.11053	-1.846072
B3GALNT2	-0.262971	7.2796749	-3.718507	0.0045967	0.11053	-1.846888
NCL	0.3021958	11.143503	3.716968	0.0046078	0.11061	-1.849208
PCNX1	0.2701897	8.6375371	3.7127126	0.0046387	0.11117	-1.855624
RAI1	0.3263341	8.010844	3.7114857	0.0046476	0.1112	-1.857475
BTLA	-0.254118	7.1869121	-3.706433	0.0046846	0.11171	-1.865096
GALNT3	-0.284819	7.3869609	-3.704004	0.0047025	0.11171	-1.868762
HIST1H2BD	-0.283838	7.8641389	-3.702812	0.0047113	0.11171	-1.870561
HAT1	-0.242845	9.3509211	-3.702064	0.0047168	0.11171	-1.87169
TRIT1	-0.373079	10.109595	-3.700269	0.0047301	0.11171	-1.8744
RBKS	-0.284897	7.1956843	-3.700228	0.0047304	0.11171	-1.874461
DPP8	0.3399294	8.5829376	3.6999683	0.0047324	0.11171	-1.874853
DYNC1H1	0.4993858	9.9561719	3.6993361	0.0047371	0.11171	-1.875808
C20orf27	-0.41586	10.809212	-3.699218	0.004738	0.11171	-1.875987
SLC5A8	-0.278347	8.0679947	-3.693792	0.0047785	0.11242	-1.88418
LITAF	0.2465905	8.900537	3.6909385	0.0048	0.11242	-1.888489
POLB	-0.412871	8.9321681	-3.690012	0.004807	0.11242	-1.889889
SNORA74A	-0.253993	7.0789695	-3.689297	0.0048124	0.11242	-1.890969
TMEM115	-0.412957	8.4012209	-3.688414	0.004819	0.11242	-1.892303
RBM12B	0.2985861	7.9091456	3.6869144	0.0048304	0.11242	-1.894569
HSCB	-0.332046	9.2114653	-3.686472	0.0048338	0.11242	-1.895239

MRPL52	-0.323123	9.441238	-3.686056	0.0048369	0.11242	-1.895867
BCL6	0.269796	10.70251	3.6856672	0.0048399	0.11242	-1.896454
CDC5L	-0.2903	8.5064855	-3.684501	0.0048488	0.11242	-1.898217
PTRHD1	-0.318034	8.9717678	-3.683384	0.0048573	0.11242	-1.899905
JCHAIN	-0.647383	12.528584	-3.68296	0.0048605	0.11242	-1.900547
CRSP8P	-0.270956	10.025	-3.679807	0.0048847	0.11246	-1.905313
ITGB2	0.3341496	10.740203	3.6791696	0.0048896	0.11246	-1.906277
PSMG1	-0.257614	11.337416	-3.678792	0.0048925	0.11246	-1.906848
ZFAND4	-0.330488	7.0984291	-3.675667	0.0049166	0.11246	-1.911573
COPS4	-0.380506	9.8833141	-3.675525	0.0049177	0.11246	-1.911788
FAM129A	0.4598874	8.7735277	3.6744649	0.0049259	0.11246	-1.913392
NUP214	0.4010077	8.7528018	3.6735945	0.0049327	0.11246	-1.914709
CHRNB1	-0.276413	7.8416941	-3.670874	0.0049538	0.11246	-1.918825
MBTPS2	0.2298544	7.6248378	3.67029	0.0049584	0.11246	-1.919708
EP300	0.6225186	7.9703203	3.6693785	0.0049655	0.11246	-1.921088
AXIN1	0.5330452	8.6273926	3.6692315	0.0049666	0.11246	-1.92131
SND1	0.387131	10.807195	3.6683973	0.0049732	0.11246	-1.922572
GOLGA4	0.3043981	7.2612435	3.667998	0.0049763	0.11246	-1.923177
TESK1	0.3991862	8.4661397	3.6668807	0.004985	0.11246	-1.924868
ASF1B	0.4521885	9.5073986	3.664703	0.0050022	0.11246	-1.928164
IGFBP1	0.2408718	7.1181783	3.6623888	0.0050204	0.11246	-1.931668
LRRC42	-0.300521	9.5345454	-3.662191	0.005022	0.11246	-1.931967
UPF1	0.3973645	8.4171951	3.6616874	0.005026	0.11246	-1.93273
PSMD1	0.4551562	10.150696	3.6611683	0.0050301	0.11246	-1.933516
TMED1	-0.522945	9.1440015	-3.661158	0.0050302	0.11246	-1.933532
CHD4	0.3610339	9.8489273	3.6611535	0.0050302	0.11246	-1.933538
ATP6V1B2	0.2488152	10.300752	3.6610036	0.0050314	0.11246	-1.933765
CYB5R1	-0.554037	8.7179906	-3.658208	0.0050536	0.11278	-1.937999
PLIN5	0.3114568	8.1759589	3.6550464	0.0050788	0.11317	-1.942788
MRPL58	-0.272659	9.7238632	-3.652593	0.0050985	0.11343	-1.946505
FAM3C	0.2806083	8.7616271	3.6500573	0.0051189	0.1135	-1.950348
INHBE	-0.281081	7.6806381	-3.649316	0.0051249	0.1135	-1.951472
ITGB3BP	-0.446622	9.0642819	-3.648889	0.0051284	0.1135	-1.952119
PELP1	0.4797454	9.1945451	3.6483404	0.0051328	0.1135	-1.95295
ITGAE	-0.341853	10.14191	-3.646693	0.0051461	0.11351	-1.955448
MKNK2	0.4024269	10.40875	3.6464153	0.0051484	0.11351	-1.955868
TAP2	0.3202742	9.1018247	3.6453235	0.0051573	0.11353	-1.957523
MAP4K4	0.3551094	8.3864257	3.6388806	0.0052099	0.11367	-1.967294
PRPF4	0.2581718	10.688022	3.6386147	0.0052121	0.11367	-1.967697
CCNI	0.4934152	12.645166	3.6376262	0.0052203	0.11367	-1.969196
VPS52	0.3023066	8.561159	3.6372354	0.0052235	0.11367	-1.969789
ZCCHC7	-0.357372	10.062544	-3.636779	0.0052272	0.11367	-1.970482
RUVBL2	0.3390216	9.8708926	3.6364114	0.0052303	0.11367	-1.971039
VPREB1	-0.341505	7.0800347	-3.634169	0.0052488	0.11367	-1.974441
PAK2	0.2726548	9.1183156	3.6336081	0.0052535	0.11367	-1.975293

FANCC	-0.312963	7.1150033	-3.63276	0.0052605	0.11367	-1.97658
SSH2	0.3113393	9.0253433	3.632744	0.0052606	0.11367	-1.976604
SNORD6	-0.337829	7.8547683	-3.632529	0.0052624	0.11367	-1.976931
RAVER1	0.4122773	8.4412933	3.6323695	0.0052637	0.11367	-1.977172
PTCD1	-0.353288	9.9267752	-3.630941	0.0052756	0.11367	-1.97934
RHOG	0.4258666	11.025461	3.6302909	0.005281	0.11367	-1.980327
RARRES3	-0.345013	8.6228181	-3.63029	0.005281	0.11367	-1.980328
EIF3C	-0.411574	7.7660268	-3.628899	0.0052927	0.11367	-1.98244
CARD11	-0.473939	9.5021969	-3.6285	0.005296	0.11367	-1.983046
COMMD6	-0.273876	12.408203	-3.623856	0.005335	0.11384	-1.990096
C10orf88	-0.37949	7.8061988	-3.62333	0.0053394	0.11384	-1.990895
PAN2	0.2275264	7.8763037	3.6228056	0.0053438	0.11384	-1.991692
NUCB1	0.3888142	11.376344	3.6226981	0.0053447	0.11384	-1.991855
JADE3	0.2255806	8.4241692	3.6225211	0.0053462	0.11384	-1.992124
ATP1B1	0.2326328	8.1779275	3.621421	0.0053555	0.11384	-1.993795
C19orf44	-0.442385	7.3300223	-3.62107	0.0053585	0.11384	-1.994328
FTL	0.3180467	13.655265	3.6185136	0.0053802	0.11396	-1.998211
BTG3	-0.23434	9.3918726	-3.618268	0.0053823	0.11396	-1.998585
MRPL1	-0.320339	9.3666326	-3.617661	0.0053874	0.11396	-1.999506
DTWD2	-0.287812	8.2478385	-3.614659	0.0054131	0.11425	-2.004068
SNORD91B	-0.35086	7.0748762	-3.614225	0.0054168	0.11425	-2.004727
NUP188	0.5077945	8.6322059	3.6117236	0.0054382	0.11451	-2.008529
EDRF1	-0.393089	9.1107654	-3.610401	0.0054496	0.11451	-2.010539
MRPL19	-0.526544	9.5821921	-3.610004	0.005453	0.11451	-2.011143
PHF5A	-0.250068	10.240132	-3.608484	0.0054661	0.11462	-2.013453
CD22	0.2824319	8.2235073	3.6067513	0.0054811	0.11471	-2.016088
PYCARD	-0.24	7.539777	-3.60516	0.005495	0.11471	-2.018508
CAND1	0.3009156	9.5606022	3.6036741	0.0055079	0.11471	-2.020767
MR1	-0.228029	7.9861417	-3.603637	0.0055082	0.11471	-2.020823
TTTY6	0.2265693	6.9067703	3.6034928	0.0055095	0.11471	-2.021043
WBP11	0.2523399	9.153614	3.6004566	0.005536	0.11508	-2.025661
GOLPH3L	0.2851483	8.264417	3.5996574	0.005543	0.11508	-2.026877
RAD54L	0.266094	8.717288	3.5986567	0.0055518	0.1151	-2.028399
SNORA70	-0.357932	8.4424049	-3.595293	0.0055814	0.11527	-2.033518
HNRNPUL2	0.2871147	9.5660495	3.595103	0.0055831	0.11527	-2.033807
BCL2A1	-0.366896	7.4769294	-3.595	0.005584	0.11527	-2.033964
SNHG5	-0.250444	13.958186	-3.592152	0.0056092	0.11534	-2.038298
CTSB	-0.240611	7.5078776	-3.591815	0.0056122	0.11534	-2.038811
MED28	-0.263725	10.012689	-3.591474	0.0056153	0.11534	-2.03933
GPATCH8	0.2876545	7.2495516	3.5898622	0.0056296	0.11534	-2.041784
GOLGA2P10	-0.561918	8.4225071	-3.589824	0.0056299	0.11534	-2.041841
RXRB	-0.359158	9.3750978	-3.58905	0.0056369	0.11534	-2.04302
TMEM128	-0.257795	7.1978785	-3.588422	0.0056425	0.11534	-2.043977
POTEF	0.2359387	10.237397	3.5851028	0.0056722	0.11564	-2.049031
SMC2	0.2567614	7.9756672	3.5835061	0.0056866	0.11564	-2.051463

ACSL1	-0.516128	9.1963015	-3.582302	0.0056974	0.11564	-2.053297
YIPF1	-0.218658	8.7326659	-3.581778	0.0057022	0.11564	-2.054095
AVEN	-0.318059	8.1851224	-3.581776	0.0057022	0.11564	-2.054097
EXOC3	0.3310065	7.7505358	3.5814789	0.0057049	0.11564	-2.05455
TAF9	-0.423153	8.3432807	-3.580245	0.005716	0.11571	-2.05643
FBXW9	-0.287135	8.3442927	-3.577899	0.0057373	0.11598	-2.060004
SCARNA18	-0.370227	8.3893077	-3.573676	0.0057759	0.11612	-2.06644
FRG1	-0.50107	9.7070711	-3.573411	0.0057783	0.11612	-2.066843
PPM1E	0.2427379	8.5167066	3.5733906	0.0057785	0.11612	-2.066875
ZNF696	0.3109666	8.8168979	3.5720409	0.0057908	0.11612	-2.068932
CHCHD10	0.3808907	12.119999	3.5720397	0.0057909	0.11612	-2.068934
BPGM	-0.239194	7.4199364	-3.571888	0.0057922	0.11612	-2.069166
H2AFX	0.4278613	8.2106151	3.5701951	0.0058078	0.11622	-2.071746
DIAPH1	0.3584414	8.8631328	3.5696167	0.0058131	0.11622	-2.072628
KCNK12	-0.35586	11.130171	-3.568019	0.0058279	0.11636	-2.075064
KLHDC2	-0.520088	9.7877958	-3.56699	0.0058374	0.11639	-2.076634
ISCA2	-0.298083	8.296901	-3.56356	0.0058693	0.11666	-2.081864
UBD	-0.263183	7.4740353	-3.563167	0.0058729	0.11666	-2.082464
ZNF594	0.2908971	8.3636767	3.5626126	0.0058781	0.11666	-2.08331
CARM1	0.4008655	12.166651	3.5621032	0.0058828	0.11666	-2.084087
SLC27A5	-0.292585	8.6822803	-3.560827	0.0058948	0.11674	-2.086033
ARMCX6	-0.21109	8.1189169	-3.559211	0.0059099	0.11674	-2.088499
NAB2	0.3298135	7.6593693	3.5591054	0.0059109	0.11674	-2.08866
MYH10	0.3791858	9.9028504	3.5558597	0.0059414	0.11693	-2.093613
MIF4GD	-0.337447	9.076919	-3.552555	0.0059727	0.11693	-2.098657
GTF2H2	-0.360222	7.3550509	-3.552525	0.005973	0.11693	-2.098703
OTUD4	0.3356644	7.597692	3.552346	0.0059747	0.11693	-2.098976
TTLL11	-0.272262	7.0612953	-3.550537	0.0059919	0.11693	-2.101738
MIR300	0.2634387	7.2145199	3.5504736	0.0059925	0.11693	-2.101834
CHD9	0.3339817	9.2613532	3.5502372	0.0059947	0.11693	-2.102195
TMEM101	0.2678147	9.4076089	3.5489232	0.0060072	0.11693	-2.104201
ZNF2	-0.372646	7.6279312	-3.548896	0.0060075	0.11693	-2.104243
RRP36	-0.293052	10.482623	-3.547357	0.0060222	0.11693	-2.106593
TNRC6B	0.2495538	7.6568435	3.5473187	0.0060226	0.11693	-2.106651
ZNF248	-0.315837	7.8424791	-3.547047	0.0060252	0.11693	-2.107066
CSE1L	0.3003119	10.390228	3.5470453	0.0060252	0.11693	-2.107069
ASPSCR1	-0.434265	10.325541	-3.545017	0.0060446	0.11693	-2.110166
HIST1H2BK	-0.26468	9.4643228	-3.544368	0.0060509	0.11693	-2.111158
SIRT3	0.2100303	6.9290091	3.5438717	0.0060556	0.11693	-2.111916
U2AF1	-0.31258	9.0126408	-3.543733	0.006057	0.11693	-2.112128
CCDC106	-0.539453	10.376114	-3.54133	0.0060801	0.11708	-2.115799
MCL1	0.2550908	8.9559214	3.5412935	0.0060805	0.11708	-2.115854
DMAP1	-0.346874	8.9944514	-3.540144	0.0060916	0.11708	-2.11761
SNF8	-0.3418	9.7329123	-3.53962	0.0060967	0.11708	-2.118411
MKKS	-0.266222	9.0909283	-3.537927	0.0061131	0.11709	-2.120997

SNORA65	-0.234312	7.9902199	-3.537476	0.0061175	0.11709	-2.121686
SIPA1L3	0.3574909	7.7525474	3.5371013	0.0061211	0.11709	-2.122259
BLOC1S6	0.3228747	9.4226758	3.5336619	0.0061547	0.11758	-2.127516
CEP57L1	-0.263808	6.996593	-3.530546	0.0061853	0.11791	-2.132279
MGMT	-0.394587	8.7325738	-3.530242	0.0061883	0.11791	-2.132745
C1orf123	-0.262476	9.3352215	-3.528667	0.0062038	0.11792	-2.135152
RERE	0.3818269	8.956818	3.527123	0.006219	0.11792	-2.137513
CSNK1G3	0.2746926	8.1464252	3.5270484	0.0062198	0.11792	-2.137627
ASB16	-0.391136	7.6970937	-3.526492	0.0062253	0.11792	-2.138477
FAM104A	-0.376349	9.5738346	-3.525539	0.0062347	0.11792	-2.139935
CAPZA1	-0.255166	8.8015332	-3.52528	0.0062373	0.11792	-2.140332
MUM1	0.2462514	9.3541446	3.5244712	0.0062453	0.11792	-2.141568
NUDCD2	-0.522094	8.9272928	-3.522583	0.0062641	0.1181	-2.144456
LOC642947	-0.355185	12.576902	-3.521898	0.0062709	0.1181	-2.145504
PUM3	0.3524209	10.094732	3.5125552	0.0063649	0.11971	-2.159801
MRPL46	-0.269134	10.612364	-3.510374	0.0063871	0.11988	-2.16314
MARF1	0.3659828	9.6829257	3.5099789	0.0063911	0.11988	-2.163745
FAAP100	-0.427662	10.449695	-3.509273	0.0063983	0.11988	-2.164825
ISY1	0.2382866	8.7937734	3.5083127	0.0064081	0.1199	-2.166296
ATXN2	0.3897841	10.492278	3.5074769	0.0064166	0.11991	-2.167575
PDS5A	0.4648707	9.152389	3.504657	0.0064455	0.12021	-2.171894
GCNT2	-0.242229	7.8122469	-3.504333	0.0064488	0.12021	-2.17239
TAF5	0.2550957	8.4736852	3.5030626	0.0064619	0.1203	-2.174336
SEC16A	0.445942	9.3484544	3.4999759	0.0064938	0.12073	-2.179064
CCNK	0.4099031	10.080168	3.4975878	0.0065185	0.12075	-2.182723
RMI1	0.3455948	8.9528873	3.4965928	0.0065289	0.12075	-2.184247
NUFIP1	0.2436217	7.978154	3.4960189	0.0065348	0.12075	-2.185127
NT5C2	-0.371211	9.9666063	-3.494197	0.0065539	0.12075	-2.187919
TRIM28	0.6364947	9.0387107	3.4929072	0.0065674	0.12075	-2.189896
PPIH	0.2436036	10.627772	3.4928521	0.0065679	0.12075	-2.18998
ESYT1	0.3534531	10.201052	3.4924243	0.0065724	0.12075	-2.190636
CDK17	0.279157	7.2288356	3.4924203	0.0065725	0.12075	-2.190642
SUPT5H	0.4307625	9.2997175	3.492073	0.0065761	0.12075	-2.191174
WDSUB1	-0.286355	9.4690707	-3.491369	0.0065835	0.12075	-2.192253
CCNA2	0.3395967	10.639357	3.4889746	0.0066087	0.12075	-2.195924
WRB	-0.31601	9.0658033	-3.487799	0.0066211	0.12075	-2.197726
FXR1	0.3042786	9.3633933	3.4876597	0.0066225	0.12075	-2.19794
LRIG1	0.3264389	9.540259	3.4873933	0.0066254	0.12075	-2.198348
ANKRD10	-0.319671	8.1184933	-3.487307	0.0066263	0.12075	-2.19848
SIGLEC6	-0.227014	7.3101699	-3.487258	0.0066268	0.12075	-2.198555
SLC35E2B	0.344603	9.4639318	3.4840052	0.0066613	0.12122	-2.203544
PSPH	-0.273629	8.927827	-3.481417	0.0066888	0.12132	-2.207514
SDHAF3	-0.278829	9.8220401	-3.480996	0.0066933	0.12132	-2.208159
TUBB	0.3347543	12.316494	3.4806312	0.0066972	0.12132	-2.208719
MRPL44	-0.236211	9.3540043	-3.478715	0.0067178	0.12132	-2.211658

JUND	0.4462756	11.981445	3.4775806	0.0067299	0.12132	-2.213399
ELL3	-0.237301	9.8576431	-3.47693	0.0067369	0.12132	-2.214397
DENND6B	-0.341435	9.0420495	-3.476479	0.0067418	0.12132	-2.215088
HIKESHI	-0.308491	8.7775703	-3.476287	0.0067438	0.12132	-2.215383
ARHGAP1	0.4214077	9.0842673	3.4760802	0.0067461	0.12132	-2.215701
ARL5A	0.2252948	9.9092947	3.4747179	0.0067608	0.12132	-2.217791
MAP6D1	-0.273459	7.535662	-3.474644	0.0067615	0.12132	-2.217904
NEK6	-0.232811	9.4901003	-3.47397	0.0067688	0.12132	-2.218939
SLC30A6	-0.235653	7.0713884	-3.472255	0.0067874	0.12132	-2.221572
XRCC5	0.2596718	10.25438	3.4716609	0.0067938	0.12132	-2.222483
SCARNA8	-0.207799	7.5920563	-3.47098	0.0068012	0.12132	-2.223528
PTP4A2	0.5377955	12.564661	3.4700846	0.006811	0.12132	-2.224902
RSRP1	-0.410502	8.4446491	-3.46958	0.0068165	0.12132	-2.225677
EIF4G2	0.2328009	11.547359	3.4694712	0.0068176	0.12132	-2.225844
VPS37D	-0.388335	7.6930217	-3.467092	0.0068436	0.12132	-2.229497
PHIP	0.3246278	8.8745018	3.4669385	0.0068453	0.12132	-2.229732
TRIM11	0.3198786	8.2217461	3.4667394	0.0068475	0.12132	-2.230038
TRIB2	0.2149577	7.4981715	3.466431	0.0068508	0.12132	-2.230511
PSPC1	-0.238973	8.4049677	-3.465466	0.0068614	0.12132	-2.231993
RGS13	-0.373581	8.9025709	-3.465058	0.0068659	0.12132	-2.232619
DUSP12	0.2777528	10.846305	3.4626847	0.006892	0.12148	-2.236264
RPRD2	0.207525	7.782819	3.4618653	0.006901	0.12148	-2.237522
SF3A3	-0.329215	11.5027	-3.460938	0.0069112	0.12148	-2.238947
DMRTA2	0.2332912	6.8223286	3.460616	0.0069148	0.12148	-2.239441
CACNA1I	0.2945018	6.9669396	3.4602717	0.0069186	0.12148	-2.23997
TPD52L2	-0.251051	9.6585809	-3.459022	0.0069324	0.12148	-2.241888
KCNN3	0.3589509	8.3257956	3.4589291	0.0069335	0.12148	-2.242032
SUPT6H	0.3313495	7.5434117	3.4581851	0.0069417	0.12148	-2.243175
SAMD12	0.2261844	7.0294565	3.4561296	0.0069646	0.12167	-2.246332
SYT16	0.2769036	7.0291065	3.4549591	0.0069776	0.12167	-2.248131
CNPY2	-0.258811	10.187212	-3.450715	0.0070251	0.12167	-2.254653
EIF3FP2	-0.520371	9.6344636	-3.449921	0.007034	0.12167	-2.255873
DDX18	0.280275	11.149003	3.4494326	0.0070395	0.12167	-2.256624
PRKRIP1	-0.349899	8.5861808	-3.449249	0.0070416	0.12167	-2.256906
INTS5	0.2962329	8.2163868	3.4492201	0.0070419	0.12167	-2.25695
NDUFAF5	-0.307049	9.5041843	-3.448721	0.0070476	0.12167	-2.257717
ANKRD49	-0.276717	8.94093	-3.448719	0.0070476	0.12167	-2.25772
C21orf2	-0.226793	8.1064262	-3.44842	0.007051	0.12167	-2.258181
P3H4	-0.224196	7.1072961	-3.448358	0.0070516	0.12167	-2.258275
BSN	0.2791236	7.7279662	3.4482493	0.0070529	0.12167	-2.258442
CKAP2L	0.3274452	8.8210584	3.4453709	0.0070854	0.12188	-2.262867
NUDCD1	-0.273689	7.475711	-3.444577	0.0070944	0.12188	-2.264088
NOP16	-0.223666	10.516723	-3.444078	0.0071001	0.12188	-2.264855
DIMT1	-0.263841	11.514379	-3.442981	0.0071126	0.12188	-2.266541
CCDC6	0.2956974	10.69364	3.442176	0.0071217	0.12188	-2.26778

SNX8	0.2925014	9.1531092	3.4406196	0.0071395	0.12188	-2.270173
SGF29	-0.250055	7.4425909	-3.439148	0.0071563	0.12188	-2.272436
SCD	0.2194075	12.507265	3.4371745	0.007179	0.12188	-2.275472
KLB	0.2081943	7.1516725	3.4371083	0.0071797	0.12188	-2.275574
FAM53B	0.2797692	8.1644009	3.4370907	0.0071799	0.12188	-2.2756
SNRPN	-0.226252	8.4008269	-3.43709	0.00718	0.12188	-2.275602
CLPX	0.288987	9.0120254	3.4364778	0.007187	0.12188	-2.276543
TPCN1	-0.266078	7.1116107	-3.436299	0.007189	0.12188	-2.276818
MSRB2	-0.442971	9.7241157	-3.435997	0.0071925	0.12188	-2.277283
BHLHE40	0.2863884	8.2463246	3.4352435	0.0072012	0.12188	-2.278442
TMEM251	0.2551829	9.1377622	3.4325193	0.0072327	0.12188	-2.282633
OR7G2	0.2696681	7.0580127	3.4324501	0.0072335	0.12188	-2.28274
EHBP1	0.2762259	9.0287079	3.4320199	0.0072385	0.12188	-2.283402
DUSP2	0.5452683	9.3700488	3.4306994	0.0072538	0.12188	-2.285433
MTMR12	0.3429997	8.508673	3.4303818	0.0072575	0.12188	-2.285922
RSU1	-0.276333	8.1947619	-3.429671	0.0072658	0.12188	-2.287016
VWA3B	0.2752763	6.9708982	3.4290031	0.0072735	0.12188	-2.288044
TSPAN10	-0.268865	7.0677565	-3.428783	0.0072761	0.12188	-2.288382
SNHG15	-0.232558	10.863144	-3.427729	0.0072884	0.12188	-2.290005
LRBA	0.2338365	8.4582884	3.4274391	0.0072918	0.12188	-2.290451
SWAP70	0.2160634	11.725872	3.4268589	0.0072986	0.12188	-2.291344
NDST2	-0.346195	8.0894807	-3.426832	0.0072989	0.12188	-2.291385
CARS2	-0.475847	8.5774618	-3.426349	0.0073045	0.12188	-2.292129
RPF1	-0.354925	8.8814774	-3.426123	0.0073072	0.12188	-2.292477
SRPRA	0.2890346	9.0466599	3.4198233	0.0073813	0.12288	-2.302175
SNRPF	0.2365733	12.674278	3.4196065	0.0073839	0.12288	-2.302509
PPCS	-0.277319	9.3437683	-3.416778	0.0074174	0.12324	-2.306864
TSPAN31	-0.249551	8.5539579	-3.415927	0.0074276	0.12324	-2.308175
TRAPPC3	-0.467589	10.183936	-3.415682	0.0074305	0.12324	-2.308553
VAMP2	0.3846278	7.9845799	3.4133205	0.0074587	0.12337	-2.31219
ST13P7	0.2274008	7.9309392	3.4126097	0.0074672	0.12337	-2.313285
SNORA21	-0.205452	7.4566533	-3.412422	0.0074694	0.12337	-2.313574
JPT1	-0.212644	9.7525989	-3.411672	0.0074784	0.12337	-2.314729
C18orf32	-0.295188	7.5327969	-3.411457	0.007481	0.12337	-2.315061
SLC31A1	0.251954	8.750788	3.4088137	0.0075128	0.12365	-2.319133
TAX1BP1	0.2195111	10.372542	3.4086469	0.0075148	0.12365	-2.31939
KCNK5	0.2788626	6.9080837	3.4061372	0.0075451	0.12401	-2.323258
ATAD3A	0.4708432	9.9751638	3.4040468	0.0075704	0.12418	-2.326479
RNF40	0.3497209	8.4322867	3.4034949	0.0075771	0.12418	-2.32733
TSEN15	-0.358118	8.5516033	-3.402807	0.0075855	0.12418	-2.32839
HBD	-0.259992	7.7500618	-3.402472	0.0075896	0.12418	-2.328906
NPAS1	-0.24404	8.0948344	-3.401304	0.0076038	0.12428	-2.330706
ZNF12	0.2770203	7.463354	3.3971243	0.007655	0.12489	-2.337151
TMEM120A	-0.28835	8.7259094	-3.396752	0.0076596	0.12489	-2.337725
CDK10	-0.236944	8.1328097	-3.395116	0.0076797	0.12489	-2.340247

TIMELESS	0.3163775	10.21219	3.3950576	0.0076804	0.12489	-2.340338
SDHD	-0.509836	10.514007	-3.394323	0.0076895	0.12489	-2.34147
CBLN1	0.2759668	6.8825964	3.3940751	0.0076926	0.12489	-2.341853
TAF1D	-0.288678	7.4463445	-3.391081	0.0077296	0.12533	-2.34647
SNORA2C	-0.231067	7.2504061	-3.390476	0.0077371	0.12533	-2.347403
BCL2	0.2117	8.2172489	3.3895016	0.0077493	0.12539	-2.348907
FAM53C	-0.324286	10.234396	-3.388634	0.0077601	0.12542	-2.350245
ZNF511	-0.278995	10.638818	-3.387073	0.0077795	0.1256	-2.352653
HAX1	-0.254985	8.791597	-3.385401	0.0078005	0.1258	-2.355233
LRRC41	-0.295708	9.6481556	-3.384704	0.0078092	0.1258	-2.356308
GTF3C1	0.3246891	7.5657846	3.3823247	0.0078391	0.12584	-2.35998
ELOVL5	-0.256594	9.8235088	-3.381813	0.0078456	0.12584	-2.36077
DOK4	-0.249104	6.9923979	-3.381468	0.0078499	0.12584	-2.361302
CLTB	-0.205423	8.5909736	-3.380658	0.0078601	0.12584	-2.362552
SPTLC2	0.2178222	7.3325489	3.3803528	0.007864	0.12584	-2.363023
PLK4	0.4073626	9.0494686	3.379698	0.0078723	0.12584	-2.364034
C11orf80	-0.457072	7.4010746	-3.379696	0.0078723	0.12584	-2.364037
DCXR	-0.265485	10.082133	-3.378146	0.0078919	0.12602	-2.366428
SNORD15B	-0.32433	7.6374375	-3.374156	0.0079427	0.12667	-2.372589
E2F6	-0.279616	8.6721163	-3.373144	0.0079556	0.12667	-2.374152
SLC23A2	0.2217067	7.8460925	3.3728987	0.0079588	0.12667	-2.37453
CHSY1	0.2450195	9.5000469	3.3717032	0.0079741	0.12678	-2.376376
TTC19	0.2937363	9.7280526	3.3707701	0.0079861	0.12683	-2.377817
MED12	0.259606	7.7028039	3.3685975	0.008014	0.12702	-2.381172
MRPS9	-0.23086	10.381225	-3.367833	0.0080239	0.12702	-2.382352
CD48	-0.347909	11.38127	-3.36727	0.0080311	0.12702	-2.383222
SAMD13	-0.308243	7.1210201	-3.367156	0.0080326	0.12702	-2.383399
FAM162A	-0.781878	8.7946061	-3.364385	0.0080685	0.12736	-2.387678
BCDIN3D	-0.313676	9.030088	-3.36413	0.0080718	0.12736	-2.388072
PURG	0.2195247	7.3808999	3.3629046	0.0080877	0.12747	-2.389965
USP34	0.3721402	8.4918225	3.3622464	0.0080963	0.12747	-2.390982
FOXK1	0.2888385	9.2059491	3.3615426	0.0081055	0.12748	-2.39207
KAT2A	-0.361869	10.494522	-3.359687	0.0081297	0.12768	-2.394937
EIF4A3	0.2577233	11.945545	3.3592406	0.0081355	0.12768	-2.395627
NETO2	0.2752697	9.5567057	3.3573953	0.0081597	0.12783	-2.398478
ZFPM1	0.2843519	8.0611447	3.3568655	0.0081667	0.12783	-2.399297
MFSD13A	-0.209382	7.8233355	-3.35614	0.0081762	0.12783	-2.400418
BID	-0.219539	8.1811856	-3.355518	0.0081844	0.12783	-2.401379
NT5M	0.2555866	7.6499792	3.3551355	0.0081895	0.12783	-2.401971
SMAD2	0.2575352	7.3426321	3.3501742	0.0082551	0.12857	-2.40964
BPI	-0.216613	6.8760232	-3.349692	0.0082615	0.12857	-2.410384
WDR19	-0.358966	9.1061763	-3.349586	0.0082629	0.12857	-2.410548
RPL13P5	-0.237977	8.4378075	-3.34674	0.0083009	0.12887	-2.414949
SNHG17	0.4035613	11.032026	3.3466689	0.0083019	0.12887	-2.415059
EHBP1L1	0.2646871	8.1537899	3.3456073	0.0083161	0.12887	-2.416701

UQCC3	-0.25459	8.320833	-3.345501	0.0083175	0.12887	-2.416865
AKAP1	-0.261804	7.7853064	-3.343822	0.00834	0.12908	-2.419461
TRIAP1	-0.325395	9.7103068	-3.342537	0.0083573	0.12921	-2.421448
C5orf51	0.3207495	9.3391206	3.3415463	0.0083706	0.12923	-2.422981
TRAK1	0.2655921	8.5021381	3.3411086	0.0083765	0.12923	-2.423658
SEC61A2	-0.218666	7.2513749	-3.34	0.0083915	0.12925	-2.425373
RPL29	-0.400643	11.49853	-3.339334	0.0084005	0.12925	-2.426403
GMDS	-0.333157	9.923057	-3.33799	0.0084187	0.12925	-2.428482
TULP4	0.2700773	7.8781464	3.337741	0.0084221	0.12925	-2.428867
PSMD8	-0.411625	10.17817	-3.337373	0.0084271	0.12925	-2.429436
MTDH	0.2166445	10.686632	3.3369831	0.0084324	0.12925	-2.43004
TYMS	0.3384123	11.680661	3.3359384	0.0084466	0.12925	-2.431656
UBE3D	-0.305625	7.7747992	-3.334576	0.0084652	0.12925	-2.433764
GJC2	-0.235546	7.299024	-3.334293	0.008469	0.12925	-2.434203
CAMSAP2	0.2518427	8.1723223	3.3335955	0.0084786	0.12925	-2.435281
CLEC16A	0.2196105	10.159415	3.333448	0.0084806	0.12925	-2.43551
GPI	0.3118568	10.820787	3.3326599	0.0084914	0.12925	-2.436729
HACD4	-0.486999	9.3832072	-3.332573	0.0084925	0.12925	-2.436864
TSPAN17	-0.20106	8.7513893	-3.330626	0.0085192	0.12952	-2.439877
ZFP36L1	-0.439057	9.1021351	-3.328068	0.0085544	0.12992	-2.443836
ZNF791	0.2512765	7.8901762	3.326307	0.0085788	0.13015	-2.446561
INTS12	-0.2807	10.040792	-3.325661	0.0085877	0.13015	-2.447561
INO80	0.3176648	7.9839413	3.3245619	0.0086029	0.13018	-2.449263
LOC388955	-0.254318	7.1904872	-3.32423	0.0086076	0.13018	-2.449777
PSMD7	0.2248507	10.925664	3.3223134	0.0086342	0.13036	-2.452744
RPL21P16	-1.722047	8.3822455	-3.32209	0.0086373	0.13036	-2.453089
COTL1	0.4095561	9.0307012	3.3212307	0.0086493	0.13041	-2.45442
HNRNPC	-0.346565	10.35728	-3.320401	0.0086609	0.13041	-2.455704
FSCN1	0.2762865	8.8872845	3.3199412	0.0086673	0.13041	-2.456417
CD74	0.6218898	11.516245	3.3186184	0.0086858	0.13056	-2.458465
ACLY	0.2443147	11.17958	3.3177293	0.0086983	0.13061	-2.459842
NFKB2	0.497741	8.3581361	3.3163252	0.008718	0.13077	-2.462017
PPP1R13B	-0.290844	7.7900951	-3.315135	0.0087348	0.13089	-2.463861
KIF15	0.2244504	8.0981652	3.3140869	0.0087496	0.13097	-2.465484
UBQLN1	0.2196213	9.3360602	3.3129153	0.0087661	0.13097	-2.467298
TBCE	-0.371457	9.2324989	-3.312852	0.008767	0.13097	-2.467397
DCAF16	0.2686698	8.2396039	3.3071141	0.0088486	0.13205	-2.476286
NSUN2	0.2146316	11.603053	3.305832	0.0088669	0.13215	-2.478273
RAB6B	-0.296722	7.0802468	-3.3054	0.0088731	0.13215	-2.478943
STXBP1	0.2553194	7.7224365	3.3032307	0.0089042	0.13247	-2.482304
FUK	-0.266332	8.0709052	-3.300747	0.00894	0.13284	-2.486153
ZFP69	-0.29915	7.1126836	-3.299703	0.0089551	0.13284	-2.487772
ITGAV	0.2466751	7.8488195	3.2990973	0.0089639	0.13284	-2.48871
LIX1L	-0.250463	8.2574768	-3.299012	0.0089651	0.13284	-2.488842
CSK	0.4024124	11.269768	3.2978067	0.0089826	0.13284	-2.490711

ATP5D	0.3532564	10.681577	3.2963433	0.0090038	0.13284	-2.49298
HIST1H4H	-0.268108	7.2368374	-3.295193	0.0090206	0.13284	-2.494763
NSMF	-0.38419	9.8075098	-3.293938	0.0090389	0.13284	-2.496709
RABL6	0.2853795	8.2659084	3.2937722	0.0090413	0.13284	-2.496966
DENND5B	0.2998028	7.3488591	3.2931584	0.0090503	0.13284	-2.497918
ZNF232	-0.30756	8.9305413	-3.292168	0.0090648	0.13284	-2.499454
CRYGS	-0.249748	7.0598398	-3.292032	0.0090668	0.13284	-2.499664
PRRG2	-0.269819	7.5340656	-3.29194	0.0090681	0.13284	-2.499807
TYW3	0.2470131	8.7699676	3.2917874	0.0090704	0.13284	-2.500043
GSE1	0.2291849	7.9022086	3.2913834	0.0090763	0.13284	-2.50067
SNORA74B	-0.248068	7.757315	-3.290159	0.0090943	0.13284	-2.502569
POR	0.2277791	7.7920183	3.2895113	0.0091038	0.13284	-2.503573
NR2C2AP	-0.262922	8.632634	-3.289369	0.0091059	0.13284	-2.503794
APOBEC3C	0.2526366	7.5428618	3.2890523	0.0091105	0.13284	-2.504285
USP5	0.4558091	10.840384	3.2885507	0.0091179	0.13284	-2.505063
MTMR6	-0.506112	8.6042992	-3.288419	0.0091199	0.13284	-2.505267
SLC25A33	-0.290869	7.2502671	-3.282669	0.009205	0.13395	-2.514187
KDM2A	0.3395553	8.9440733	3.2816188	0.0092207	0.13404	-2.515816
MIR940	0.2451605	7.055822	3.2790552	0.009259	0.13434	-2.519793
TUBB2A	0.3216267	7.8727445	3.2790065	0.0092597	0.13434	-2.519869
CENPE	0.2454584	8.0781719	3.2762543	0.009301	0.1346	-2.524139
SLC23A1	-0.215426	7.006709	-3.27598	0.0093051	0.1346	-2.524565
IREB2	0.280886	8.0762871	3.2756925	0.0093095	0.1346	-2.525011
LAPTM5	0.2647842	10.108021	3.2753463	0.0093147	0.1346	-2.525548
EEF1B2	-0.267133	11.398071	-3.274518	0.0093272	0.1346	-2.526835
ADAM19	0.4893004	9.771802	3.2741202	0.0093332	0.1346	-2.527451
PKMYT1	0.3636229	7.6173476	3.2732316	0.0093466	0.13466	-2.52883
WDR6	0.3291222	9.8207945	3.2721137	0.0093635	0.13472	-2.530566
MRPL42	-0.336843	8.9017669	-3.271732	0.0093693	0.13472	-2.531157
EIF3B	0.3128318	10.97013	3.2706379	0.0093859	0.13483	-2.532856
KDELC1	-0.229547	7.3141008	-3.267685	0.0094309	0.13525	-2.537441
PIGK	-0.271967	8.5321179	-3.2675	0.0094337	0.13525	-2.537727
MGRN1	0.4105313	7.7085055	3.2657778	0.00946	0.13549	-2.540401
TMEM64	0.2315936	8.0340683	3.2648596	0.0094741	0.1355	-2.541827
NUP153	0.3324695	9.8634944	3.2640529	0.0094864	0.1355	-2.54308
ARHGEF35	-0.227903	6.9190123	-3.263916	0.0094885	0.1355	-2.543292
ACY3	-0.22255	6.9524623	-3.262759	0.0095063	0.13555	-2.545089
SELENOI	0.3349596	8.5430631	3.2618759	0.0095199	0.13555	-2.54646
E2F7	0.1971165	7.7220216	3.261698	0.0095227	0.13555	-2.546736
MYO1H	0.2087492	6.9561248	3.2612926	0.0095289	0.13555	-2.547366
ASGR1	-0.322736	7.0565775	-3.258391	0.0095738	0.13595	-2.551872
MRGPRD	0.2208236	7.0770518	3.2575051	0.0095875	0.13595	-2.553248
PARP10	-0.356942	8.6012904	-3.256598	0.0096016	0.13595	-2.554656
FNTB	-0.239942	8.2151894	-3.256045	0.0096102	0.13595	-2.555515
HDDC3	-0.234057	9.3202807	-3.255933	0.009612	0.13595	-2.55569

ERO1A	0.3000514	8.5019058	3.2557515	0.0096148	0.13595	-2.555972
SHARPIN	0.2751339	7.7292296	3.2551506	0.0096242	0.13595	-2.556905
AP4E1	0.2691051	8.4976596	3.2537779	0.0096456	0.13595	-2.559038
YIPF5	-0.287339	7.2682233	-3.25345	0.0096507	0.13595	-2.559547
RABEPK	-0.251699	11.941154	-3.252809	0.0096607	0.13595	-2.560542
PRRT2	0.2097102	7.300626	3.2526157	0.0096638	0.13595	-2.560843
GAK	-0.305625	10.656081	-3.252284	0.0096689	0.13595	-2.561359
TNS3	0.2894081	10.111607	3.2505916	0.0096955	0.13619	-2.563988
ZNF76	0.2260816	7.4205257	3.2474814	0.0097445	0.13632	-2.568821
FOXO1	0.2116612	8.3182863	3.2471482	0.0097497	0.13632	-2.569338
MXD4	-0.231456	8.9755444	-3.246409	0.0097614	0.13632	-2.570487
CDC25B	0.303402	8.248777	3.2459885	0.0097681	0.13632	-2.571141
INHBB	-0.30095	6.9838238	-3.245758	0.0097717	0.13632	-2.571499
DGCR8	0.3311957	7.9776992	3.2453837	0.0097776	0.13632	-2.57208
ARL6IP5	-0.438958	10.906851	-3.245365	0.0097779	0.13632	-2.57211
UBR5	0.2208652	9.6026556	3.2450512	0.0097829	0.13632	-2.572597
CCZ1B	-0.219947	8.7278173	-3.244159	0.0097971	0.13632	-2.573983
C17orf98	-0.340927	7.1853855	-3.244125	0.0097976	0.13632	-2.574037
RRN3	-0.351702	8.848535	-3.242492	0.0098236	0.13655	-2.576575
NCK1	0.2098467	9.9914853	3.2415142	0.0098391	0.13663	-2.578094
LRP10	0.3401758	9.1716312	3.2407204	0.0098518	0.13668	-2.579328
MCM2	0.4345754	9.6023509	3.2395346	0.0098708	0.13673	-2.581172
SNORD31	-0.435084	8.6992569	-3.238694	0.0098842	0.13673	-2.582479
ERC1	0.334608	7.8957919	3.2384702	0.0098878	0.13673	-2.582826
PSMD12	0.2663343	9.9805906	3.2379187	0.0098966	0.13673	-2.583683
KIAA0100	-0.244854	7.8467351	-3.237559	0.0099024	0.13673	-2.584243
RIPOR1	-0.286406	8.0013183	-3.23568	0.0099326	0.13679	-2.587164
TTI1	0.3273456	7.9923531	3.2347521	0.0099476	0.13679	-2.588607
CENPQ	-0.316868	7.3670977	-3.234236	0.0099559	0.13679	-2.589409
CARS	-0.23708	8.3070658	-3.233523	0.0099674	0.13679	-2.590517
GATB	-0.453985	9.8355336	-3.233487	0.009968	0.13679	-2.590574
AK1	-0.335473	7.4391456	-3.233424	0.009969	0.13679	-2.590671
THEM6	-0.439041	9.7588668	-3.233213	0.0099724	0.13679	-2.590999
NXT2	-0.398349	7.966763	-3.231606	0.0099985	0.13702	-2.593499
ZC3H4	0.3793308	9.7217449	3.2305048	0.0100163	0.13707	-2.595211
STARD3NL	-0.228085	8.7599068	-3.230247	0.0100205	0.13707	-2.595611
FUT7	0.236782	6.9167077	3.229571	0.0100315	0.13709	-2.596663
CXCR5	0.2744639	8.4452688	3.2284636	0.0100495	0.13721	-2.598385
MPP6	0.249943	9.1876508	3.2276999	0.010062	0.13721	-2.599573
FDPS	-0.391612	9.4447079	-3.227309	0.0100684	0.13721	-2.600181
EPM2AIP1	0.2505163	8.7921317	3.2265027	0.0100816	0.13726	-2.601435
C2orf49	-0.261033	8.2200841	-3.22427	0.0101181	0.13763	-2.604909
FABP6	-0.200349	6.9861616	-3.221531	0.0101632	0.13798	-2.609168
NUDT2	-0.253095	8.9175229	-3.221531	0.0101632	0.13798	-2.609169
ATP2A2	0.4597435	10.024433	3.2204522	0.010181	0.13802	-2.610847

CYP51A1	-0.476823	7.8101163	-3.220215	0.0101849	0.13802	-2.611215
PIGU	-0.421727	9.0258543	-3.218775	0.0102087	0.13815	-2.613456
C19orf53	-0.398459	10.520172	-3.218499	0.0102133	0.13815	-2.613887
SLC25A19	-0.546118	10.980381	-3.217358	0.0102322	0.13828	-2.615661
CTRB2	0.2674327	6.9682023	3.2166316	0.0102443	0.13831	-2.616792
SNORA52	-0.243644	7.2031211	-3.215855	0.0102572	0.13836	-2.618
CEP72	0.2569531	7.4554818	3.2133952	0.0102983	0.13857	-2.621828
MAPK6	0.3464477	10.26504	3.2130318	0.0103043	0.13857	-2.622393
NUDT7	-0.280211	8.8490837	-3.212993	0.010305	0.13857	-2.622453
MAP3K5	0.3153753	8.3616986	3.2126566	0.0103106	0.13857	-2.622977
E2F1	-0.265521	7.7196829	-3.210554	0.0103459	0.13884	-2.626249
LONRF1	0.2227039	8.3752571	3.2103121	0.0103499	0.13884	-2.626626
NUCKS1	0.3663859	10.645135	3.2091759	0.0103691	0.13885	-2.628395
ARID4B	0.2453961	7.7177532	3.2088993	0.0103737	0.13885	-2.628825
TNK2	0.2087721	8.0205611	3.2085725	0.0103792	0.13885	-2.629334
ACER3	0.2272328	7.8812086	3.2077328	0.0103934	0.13891	-2.630641
SNX2	0.2758641	10.440276	3.2035835	0.0104636	0.13967	-2.6371
ZNF85	-0.194494	6.9044022	-3.2032	0.0104702	0.13967	-2.637697
RBM28	0.2085194	8.4122851	3.2026752	0.0104791	0.13967	-2.638514
MND1	-0.269813	9.0535311	-3.202043	0.0104899	0.13969	-2.639498
CALCOCO2	-0.26929	7.1572116	-3.200397	0.0105179	0.13974	-2.642062
POM121L8P	-0.43493	7.9638825	-3.20032	0.0105193	0.13974	-2.642181
JADE2	0.3914803	9.285054	3.2001297	0.0105225	0.13974	-2.642478
DPP3	0.2537164	8.4357685	3.1990106	0.0105417	0.13985	-2.64422
IDI1	-0.310187	9.5272938	-3.198543	0.0105497	0.13985	-2.644948
TIMM8B	-0.382868	8.7462889	-3.197333	0.0105704	0.14	-2.646833
IRAK1BP1	-0.227742	7.6723565	-3.196459	0.0105854	0.14007	-2.648193
ZCCHC11	0.2715764	8.2425395	3.1922451	0.0106582	0.1409	-2.654757
CD83	0.3046564	11.55425	3.1889105	0.0107161	0.14154	-2.659951
TMEM245	0.2851091	8.9555948	3.1876126	0.0107387	0.14167	-2.661973
GMPR2	-0.234525	9.040311	-3.187243	0.0107452	0.14167	-2.662548
C15orf41	-0.252882	7.1081969	-3.186604	0.0107564	0.14168	-2.663544
FEN1	0.3210634	10.387406	3.1857581	0.0107712	0.14168	-2.664862
ABCB10	0.3303395	9.3012654	3.1855123	0.0107755	0.14168	-2.665245
NAPSB	0.331356	11.041498	3.182788	0.0108233	0.14207	-2.66949
SMUG1	-0.320065	9.2783818	-3.182694	0.010825	0.14207	-2.669637
INPPL1	-0.261875	9.1716079	-3.181795	0.0108408	0.14207	-2.671037
ADRA2B	0.2284595	7.0738128	3.181166	0.0108519	0.14207	-2.672017
C12orf10	-0.431814	10.444754	-3.181081	0.0108534	0.14207	-2.672149
MCM10	0.2514651	8.8135311	3.1804299	0.0108649	0.14209	-2.673164
DYRK3	-0.24773	7.653009	-3.17862	0.0108969	0.14238	-2.675985
ERGIC2	-0.414223	7.5767782	-3.176544	0.0109338	0.14259	-2.67922
RPS27L	0.2270052	12.446341	3.1764347	0.0109357	0.14259	-2.67939
CEP135	0.4148854	8.8896684	3.1760934	0.0109418	0.14259	-2.679922
ASAP3	-0.247355	8.8987614	-3.175115	0.0109592	0.1426	-2.681447

PIGQ	-0.447938	8.2647301	-3.174943	0.0109623	0.1426	-2.681715
CNOT4	0.2076504	7.7906361	3.1740646	0.010978	0.14267	-2.683084
SLC38A6	-0.372014	7.7310209	-3.1733	0.0109916	0.1427	-2.684276
PAXIP1	-0.321693	9.1955827	-3.172772	0.0110011	0.1427	-2.685099
TOMM20	0.2278347	11.791851	3.1723221	0.0110091	0.1427	-2.6858
CDK11B	0.3785959	8.2891189	3.1703673	0.0110442	0.14298	-2.688848
LINC02203	-0.214663	6.8647858	-3.169496	0.0110599	0.14298	-2.690206
TLE4	0.2011891	8.1428565	3.1694592	0.0110605	0.14298	-2.690263
SEC61A1	-0.313817	11.205228	-3.168449	0.0110787	0.14299	-2.691838
SNORD11	-0.288707	7.6088188	-3.168115	0.0110847	0.14299	-2.692358
CCDC85A	-0.303995	7.6908413	-3.167819	0.0110901	0.14299	-2.69282
MAMDC4	-0.21423	7.0597285	-3.166496	0.011114	0.14317	-2.694883
SAPCD2	0.5110384	9.0531892	3.1655466	0.0111312	0.14326	-2.696363
RPS6KB2	-0.30189	9.0512547	-3.163821	0.0111625	0.14348	-2.699054
SELENOF	-0.364574	10.971156	-3.163538	0.0111676	0.14348	-2.699495
MRPL22	-0.216443	11.012683	-3.16173	0.0112005	0.14366	-2.702314
CCDC189	-0.303874	7.8471479	-3.161684	0.0112014	0.14366	-2.702386
SLC27A3	-0.309444	7.655497	-3.158825	0.0112536	0.1441	-2.706844
SLC30A9	0.2523418	10.147161	3.1587302	0.0112554	0.1441	-2.706993
DEXI	-0.237117	8.1985575	-3.157721	0.0112739	0.14414	-2.708567
C14orf79	-0.211403	7.0415485	-3.157005	0.011287	0.14414	-2.709684
NR1H3	-0.369866	7.9527805	-3.156952	0.011288	0.14414	-2.709766
SLC25A13	-0.308334	8.8601911	-3.154087	0.0113408	0.14465	-2.714235
MAD2L1	-0.190616	9.5052551	-3.153702	0.0113479	0.14465	-2.714836
ABCE1	0.228769	10.573771	3.1519825	0.0113797	0.1448	-2.717517
RMDN3	0.1905041	9.7987577	3.1513309	0.0113918	0.1448	-2.718534
RAB5B	0.3548287	10.349271	3.1511145	0.0113958	0.1448	-2.718872
EVI2A	-0.282777	7.8308968	-3.150763	0.0114023	0.1448	-2.719419
SNORD69	-0.246381	7.8943586	-3.150384	0.0114094	0.1448	-2.720012
DUS2	-0.283359	9.5713637	-3.149707	0.011422	0.14483	-2.721067
DEPTOR	-0.276442	7.9577656	-3.146333	0.0114849	0.1455	-2.726331
MAP3K20	0.2195435	7.7957502	3.1455781	0.011499	0.1455	-2.727509
DYNC1I2	0.1920453	9.7167928	3.1452059	0.011506	0.1455	-2.72809
HLA-DRB4	0.2605729	10.202	3.144744	0.0115147	0.1455	-2.728811
RPL23AP64	-0.440117	11.899544	-3.143005	0.0115474	0.14579	-2.731525
IRF1	-0.280326	10.726516	-3.141677	0.0115724	0.14594	-2.733597
IMPA1	-0.352675	9.5742473	-3.141324	0.011579	0.14594	-2.734147
SPRYD3	-0.471883	8.5567857	-3.139873	0.0116064	0.14603	-2.736413
LOC1001305	0.2073394	7.0079318	3.1398605	0.0116067	0.14603	-2.736431
NACAP1	-0.450129	8.9135449	-3.138478	0.0116328	0.14617	-2.738588
LLPH	-0.269277	9.3904306	-3.13764	0.0116487	0.14617	-2.739896
NUP54	-0.238153	9.2122083	-3.137313	0.011655	0.14617	-2.740407
ZBTB33	0.2696819	9.8595022	3.1368104	0.0116645	0.14617	-2.741192
SMCR5	-0.337534	7.8918068	-3.136632	0.0116679	0.14617	-2.741471
FAM49B	-0.30249	8.8803563	-3.135692	0.0116858	0.14627	-2.742936

RDH5	-0.265953	7.496899	-3.135013	0.0116987	0.14631	-2.743998
WBP2	0.5257011	11.200628	3.131919	0.0117579	0.14682	-2.748827
RRP1B	0.4195469	9.0389882	3.1317298	0.0117615	0.14682	-2.749122
BBS1	0.205892	7.5423844	3.1312891	0.01177	0.14682	-2.74981
MFSD10	-0.271178	10.236826	-3.12895	0.0118149	0.14725	-2.753461
PLPP5	0.1861394	6.9196237	3.1284437	0.0118247	0.14725	-2.754252
STARD7	0.2710053	9.8714267	3.1269171	0.0118542	0.1475	-2.756635
TSPYL2	0.2266792	7.5330429	3.1245881	0.0118993	0.14785	-2.760272
GAREM1	0.225007	7.1996973	3.1226041	0.0119379	0.14785	-2.76337
TMC4	-0.188453	6.9245581	-3.12252	0.0119395	0.14785	-2.763502
TMF1	0.1991631	7.5947311	3.1224907	0.0119401	0.14785	-2.763547
PUM1	0.3490052	10.304592	3.1218677	0.0119522	0.14785	-2.76452
SMDT1	-0.383636	8.3400715	-3.121639	0.0119567	0.14785	-2.764877
CIR1	-0.316699	7.5695502	-3.121504	0.0119593	0.14785	-2.765087
COPRS	-0.226842	10.474289	-3.121268	0.0119639	0.14785	-2.765456
LARP1	0.3702666	9.5398096	3.1190795	0.0120067	0.14826	-2.768874
MIR611	-0.220063	7.055351	-3.118146	0.012025	0.14832	-2.770332
MCUR1	0.2950423	9.6714192	3.1177893	0.012032	0.14832	-2.770889
FOXM1	0.2794008	8.5163875	3.116871	0.01205	0.14841	-2.772323
RASSF6	0.2170426	8.1397632	3.1161981	0.0120633	0.14845	-2.773374
POU2F1	0.2143005	7.8942436	3.1149065	0.0120887	0.1486	-2.775391
PPP1R18	0.5110778	9.7664747	3.114553	0.0120957	0.1486	-2.775943
TP53INP2	0.1962601	7.5500052	3.1117923	0.0121503	0.14893	-2.780256
UFSP1	-0.224335	7.0182368	-3.111473	0.0121566	0.14893	-2.780754
ARHGDIA	0.3691672	10.381406	3.1105853	0.0121743	0.14893	-2.782141
CAAP1	-0.503893	8.5577433	-3.110077	0.0121844	0.14893	-2.782935
ABCF1	0.2038789	10.470904	3.1087143	0.0122115	0.14893	-2.785064
OSGEP	-0.401803	8.7932732	-3.108558	0.0122146	0.14893	-2.785308
CLEC4A	-0.264036	7.7128101	-3.108162	0.0122225	0.14893	-2.785926
SPTAN1	0.4795912	8.5747397	3.1066534	0.0122526	0.14893	-2.788283
SOX4	0.2139712	7.8792792	3.1064791	0.0122561	0.14893	-2.788556
USP7	0.2853068	8.156684	3.1062454	0.0122608	0.14893	-2.788921
PRPF40A	0.3680926	7.9460578	3.1056908	0.0122719	0.14893	-2.789787
CCDC126	-0.201822	7.4704444	-3.105449	0.0122768	0.14893	-2.790165
EIF3M	-0.350441	11.475664	-3.104416	0.0122975	0.14893	-2.791779
MYL2	-0.206941	7.1895001	-3.103881	0.0123082	0.14893	-2.792615
PCYT2	-0.215598	8.1736457	-3.103631	0.0123133	0.14893	-2.793006
ASCC2	-0.435643	10.828443	-3.102922	0.0123275	0.14893	-2.794113
LINC00957	-0.464885	10.28326	-3.102274	0.0123406	0.14893	-2.795127
COL7A1	-0.216555	6.9679608	-3.101783	0.0123505	0.14893	-2.795894
HDDC2	-0.318074	12.319662	-3.101772	0.0123507	0.14893	-2.79591
PAQR3	-0.300887	9.0652152	-3.100938	0.0123675	0.14893	-2.797214
FAM126B	0.3377861	7.8706523	3.1008782	0.0123687	0.14893	-2.797307
SYAP1	-0.212094	8.4388712	-3.100426	0.0123779	0.14893	-2.798014
TOP2A	0.3298857	10.89545	3.1001978	0.0123825	0.14893	-2.79837

MIR22HG	-0.28424	7.2589877	-3.099487	0.0123968	0.14893	-2.79948
PFDN4	-0.474645	7.7547544	-3.098772	0.0124113	0.14893	-2.800599
CAT	-0.27866	9.0755492	-3.098371	0.0124195	0.14893	-2.801224
F8A3	0.2438711	6.9943122	3.0970759	0.0124458	0.14893	-2.803249
MSN	0.3857157	11.197132	3.096839	0.0124506	0.14893	-2.803619
POTEKP	0.3371563	9.8793153	3.0968337	0.0124507	0.14893	-2.803627
LOC155060	-0.400208	8.0304756	-3.096776	0.0124518	0.14893	-2.803717
CD84	0.3303947	7.6789395	3.0963301	0.0124609	0.14893	-2.804414
KLHDC3	-0.271276	10.862212	-3.095768	0.0124724	0.14893	-2.805293
CBWD3	0.2320946	8.4225101	3.0947592	0.0124929	0.14893	-2.806869
CCDC183	-0.195106	6.9887442	-3.094716	0.0124938	0.14893	-2.806936
TRIM24	0.1965965	7.7514559	3.0946926	0.0124943	0.14893	-2.806973
TUBB4B	0.5270875	11.082297	3.0939702	0.012509	0.14893	-2.808102
YEATS4	-0.317583	9.734931	-3.093499	0.0125187	0.14893	-2.808838
LSM1	-0.273023	10.67189	-3.092951	0.0125299	0.14893	-2.809695
TRMT10C	-0.408142	8.6757862	-3.09285	0.012532	0.14893	-2.809853
LEP	-0.264282	8.3174401	-3.092849	0.012532	0.14893	-2.809855
MSTO1	-0.466275	8.260157	-3.09242	0.0125408	0.14893	-2.810526
SMCHD1	0.1994943	7.3063913	3.0918835	0.0125518	0.14894	-2.811364
HES6	-0.403024	7.7929237	-3.088179	0.012628	0.14965	-2.817155
STK35	0.2143116	7.8982947	3.0872985	0.0126461	0.14965	-2.818531
ESYT2	0.2643693	10.003631	3.0870475	0.0126513	0.14965	-2.818923
DPY19L1	0.2747097	8.5590225	3.0868578	0.0126552	0.14965	-2.81922
COL4A3BP	0.3307629	7.8686491	3.0864749	0.0126632	0.14965	-2.819818
RC3H2	0.2387306	8.3268629	3.0843615	0.012707	0.15005	-2.823122
POLE2	-0.255181	9.5163872	-3.082898	0.0127374	0.15028	-2.82541
AGPS	0.1939562	8.6289057	3.0816325	0.0127638	0.15038	-2.827389
ATP6V1G1	-0.371522	10.7656	-3.081504	0.0127664	0.15038	-2.82759
PCDHGB6	0.2966422	7.6644619	3.0808656	0.0127798	0.15038	-2.828588
SNORA66	-0.225773	7.2514237	-3.080544	0.0127865	0.15038	-2.82909
C17orf100	-0.211228	7.025817	-3.076442	0.0128725	0.15087	-2.835505
NISCH	0.3393157	8.6626918	3.0758139	0.0128857	0.15087	-2.836487
FAM83F	0.2005811	7.4318631	3.0756364	0.0128895	0.15087	-2.836764
TMBIM6	0.4085591	11.047955	3.0736589	0.0129312	0.15087	-2.839856
CGRRF1	-0.313259	8.507224	-3.073358	0.0129376	0.15087	-2.840326
SEC61G	0.2125444	12.976578	3.073068	0.0129437	0.15087	-2.840781
ZNF275	0.4570501	9.2150703	3.0730376	0.0129444	0.15087	-2.840828
NDUFA6	-0.270598	9.5478333	-3.072946	0.0129463	0.15087	-2.840971
REV3L	0.2538514	7.4721291	3.0721025	0.0129642	0.15087	-2.84229
GEMIN2	-0.210284	9.3123587	-3.072066	0.0129649	0.15087	-2.842347
ASPM	0.3381342	9.6522035	3.0710902	0.0129856	0.15087	-2.843873
NOL12	-0.274675	9.8637221	-3.070926	0.0129891	0.15087	-2.84413
NFKB1	0.2184034	11.686799	3.0703841	0.0130006	0.15087	-2.844978
PKM	0.6576904	9.860869	3.0703813	0.0130007	0.15087	-2.844982
TPD52	0.1877716	8.5805636	3.0696362	0.0130166	0.15087	-2.846148

ABHD15	-0.203662	7.4507996	-3.068597	0.0130387	0.15087	-2.847773
DNAJC12	-0.262681	10.185823	-3.068431	0.0130422	0.15087	-2.848033
RNF38	0.2460766	7.969948	3.068242	0.0130463	0.15087	-2.848328
C14orf93	-0.258303	8.2798307	-3.068156	0.0130481	0.15087	-2.848463
CHRAC1	0.2003645	8.1747006	3.0678798	0.013054	0.15087	-2.848895
UBAC2	-0.498702	8.5674505	-3.066482	0.0130839	0.15087	-2.851081
MTHFD2	-0.289639	11.246968	-3.066092	0.0130922	0.15087	-2.851691
TSC2	0.2269196	7.1866959	3.0658684	0.013097	0.15087	-2.852041
PRPF18	-0.316839	7.5122758	-3.065765	0.0130992	0.15087	-2.852202
MITD1	-0.216192	9.7627223	-3.064898	0.0131178	0.15087	-2.853558
SNTB2	0.4005074	8.3306697	3.0648253	0.0131194	0.15087	-2.853672
SGK1	0.2325923	10.757624	3.0642291	0.0131322	0.15087	-2.854605
HIST2H2AA3	-0.281318	7.8643376	-3.064179	0.0131333	0.15087	-2.854683
GNAI2	0.3295117	9.836126	3.063707	0.0131434	0.15087	-2.855421
SLC5A6	0.3368333	9.605727	3.0633689	0.0131507	0.15087	-2.85595
RAPGEF6	0.3855354	8.819717	3.063359	0.0131509	0.15087	-2.855966
P4HB	0.3872754	11.201228	3.062986	0.0131589	0.15087	-2.856549
PCBP2	0.204096	9.8247755	3.0596717	0.0132304	0.15157	-2.861734
CFAP97	0.2591215	7.9212771	3.0588271	0.0132487	0.15166	-2.863055
TSPAN33	-0.373747	9.9915761	-3.058194	0.0132625	0.1517	-2.864046
SCFD1	0.2074983	9.9856632	3.0546344	0.0133399	0.15243	-2.869615
FAM30A	0.2520112	7.9244826	3.054292	0.0133474	0.15243	-2.87015
GEMIN4	-0.198932	11.009047	-3.053408	0.0133667	0.15246	-2.871533
TMEM11	-0.295328	7.595258	-3.053226	0.0133707	0.15246	-2.871818
DNAJC2	-0.262868	7.2023227	-3.051984	0.0133979	0.15259	-2.873762
IL15RA	-0.207573	7.2321119	-3.051697	0.0134042	0.15259	-2.874211
IL2RB	0.3226994	7.4013419	3.0512637	0.0134137	0.15259	-2.874889
LYPLA1	-0.250465	8.9719471	-3.050437	0.0134319	0.15267	-2.876183
ZBED4	0.3980681	9.0400508	3.0499907	0.0134417	0.15267	-2.876881
SDR42E1	-0.206479	7.1427424	-3.048729	0.0134695	0.15287	-2.878855
AMFR	0.3038975	9.3237533	3.0473092	0.0135008	0.1531	-2.881077
BPHL	-0.20963	9.2283058	-3.045519	0.0135404	0.15343	-2.883878
CACNA1S	0.3127679	7.1989731	3.0448701	0.0135548	0.15348	-2.884894
MGLL	0.2090953	7.5238829	3.0443316	0.0135668	0.15349	-2.885737
CERS5	-0.207282	7.9843861	-3.039564	0.0136731	0.15442	-2.893199
APOBEC3H	-0.193901	6.9712658	-3.039093	0.0136837	0.15442	-2.893935
CTRL	-0.347635	7.4687991	-3.038717	0.0136921	0.15442	-2.894524
LGALSL	-0.315415	7.6979154	-3.03785	0.0137115	0.15442	-2.895881
USP1	0.2560004	8.7548788	3.0375983	0.0137172	0.15442	-2.896275
SRD5A1	0.2243065	7.8746824	3.0374471	0.0137206	0.15442	-2.896512
JOSD1	-0.232106	9.2416861	-3.037218	0.0137257	0.15442	-2.89687
DBNDD2	-0.246368	8.0463963	-3.036132	0.0137502	0.15442	-2.89857
TNFRSF10A	0.2002359	7.8011193	3.0347977	0.0137803	0.15442	-2.900659
TLE6	-0.21468	7.0876787	-3.034098	0.0137961	0.15442	-2.901755
CENPX	-0.306207	11.392472	-3.033509	0.0138094	0.15442	-2.902675

DNAJC17	-0.488954	8.2584277	-3.032811	0.0138252	0.15442	-2.903768
STAP1	-0.306688	8.9915772	-3.030632	0.0138746	0.15442	-2.907179
ZNF681	-0.193936	7.1983751	-3.030142	0.0138857	0.15442	-2.907946
GSK3B	0.333678	9.0615369	3.0299727	0.0138896	0.15442	-2.908212
WASHC4	-0.298747	7.1173847	-3.029792	0.0138937	0.15442	-2.908494
ACACB	-0.244592	7.7681455	-3.029269	0.0139056	0.15442	-2.909314
MFF	-0.223666	8.4043816	-3.029254	0.013906	0.15442	-2.909336
SSBP2	-0.203854	9.9220347	-3.027708	0.0139412	0.15442	-2.911758
DHX36	0.2192901	8.8592869	3.0276682	0.0139421	0.15442	-2.91182
LYSMD3	0.260349	7.1147027	3.0274839	0.0139464	0.15442	-2.912108
NDUFS7	-0.449802	11.489416	-3.027382	0.0139487	0.15442	-2.912267
UCHL5	0.2436469	9.7998536	3.0265169	0.0139685	0.15442	-2.913622
AP2A1	0.2656848	7.4498863	3.0264788	0.0139693	0.15442	-2.913682
SNORD14A	-0.243831	8.110859	-3.026389	0.0139714	0.15442	-2.913823
ZNF521	-0.226738	6.9963823	-3.026315	0.0139731	0.15442	-2.913938
STRBP	0.2252621	9.6331697	3.0259717	0.013981	0.15442	-2.914476
IFI27L2	-0.299094	7.8052683	-3.025439	0.0139932	0.15442	-2.915309
TICRR	0.2325732	7.7734354	3.0253304	0.0139957	0.15442	-2.91548
KIF22	0.2829164	9.9126339	3.0252745	0.0139969	0.15442	-2.915567
ARHGAP19	0.1908588	9.003671	3.0249567	0.0140042	0.15442	-2.916065
NAGPA	0.1818845	7.6951424	3.0249505	0.0140044	0.15442	-2.916075
ORC1	0.1833385	7.9421242	3.0248083	0.0140076	0.15442	-2.916297
TAF7	-0.301772	9.7852453	-3.024778	0.0140083	0.15442	-2.916345
SNORD35B	-0.310925	7.8604285	-3.02395	0.0140273	0.15451	-2.91764
HCFC1R1	-0.247027	8.5457446	-3.021075	0.0140936	0.15493	-2.922143
SEC22A	-0.264017	9.0421015	-3.020932	0.0140969	0.15493	-2.922366
ZSWIM7	-0.292715	9.1226921	-3.020904	0.0140975	0.15493	-2.922411
ATP13A1	-0.334526	8.4385147	-3.019178	0.0141375	0.15526	-2.925112
CLK2	-0.264111	8.3734358	-3.017849	0.0141683	0.15533	-2.927194
ALKBH6	-0.248781	8.3485341	-3.017305	0.0141809	0.15533	-2.928046
LAPTM4A	-0.188575	8.3274082	-3.017169	0.0141841	0.15533	-2.928258
HSD17B7P2	-0.338307	8.4092694	-3.016743	0.014194	0.15533	-2.928926
RPL26	-0.344775	13.916981	-3.016619	0.0141969	0.15533	-2.929121
TMSB4XP8	-0.270229	11.422699	-3.014666	0.0142424	0.15571	-2.932179
SNAI2	-0.186481	6.9072365	-3.013199	0.0142767	0.15582	-2.934476
SCAF8	0.2346962	8.4681205	3.0128927	0.0142839	0.15582	-2.934956
RBM4B	-0.20012	8.8006672	-3.012844	0.014285	0.15582	-2.935032
TNRC6A	0.2164179	7.4076333	3.0096636	0.0143597	0.15652	-2.940013
EMP2	0.235211	6.9810609	3.0073557	0.0144141	0.157	-2.943628
CRIPAK	0.3313836	7.5232454	3.0062388	0.0144406	0.15717	-2.945377
NEMF	0.3530895	8.1725414	3.0054457	0.0144594	0.15725	-2.946619
RPL10A	-0.389364	13.724909	-3.004825	0.0144741	0.1573	-2.947591
HCN2	-0.259466	7.0875582	-3.004039	0.0144928	0.15732	-2.948822
BAZ1A	0.2535606	9.0805935	3.0038369	0.0144976	0.15732	-2.949139
SLIT3	0.393164	7.1036013	3.002056	0.01454	0.15766	-2.951929

NOL6	0.1857087	8.93254	3.0012378	0.0145595	0.15775	-2.95321
B4GALT4	-0.25419	7.6770788	-2.999032	0.0146123	0.15802	-2.956666
USP10	0.2385428	9.355561	2.9988803	0.0146159	0.15802	-2.956903
TAF4B	-0.236731	7.750079	-2.998788	0.0146181	0.15802	-2.957048
OGFR	0.4682779	8.5216107	2.9983908	0.0146276	0.15802	-2.95767
TBC1D10A	0.1886698	7.5839949	2.9969577	0.0146621	0.15828	-2.959915
MPHOSPH1(	0.1997822	8.2506704	2.996473	0.0146737	0.15828	-2.960675
ACTR2	0.395678	11.567491	2.9960575	0.0146837	0.15828	-2.961325
SGSM2	-0.220404	10.666019	-2.994815	0.0147137	0.15848	-2.963272
AK2	-0.244864	10.390562	-2.993567	0.0147439	0.15869	-2.965227
AATF	0.2536208	9.377395	2.9916533	0.0147902	0.15907	-2.968225
SHOC2	0.261753	9.2241758	2.9901377	0.0148271	0.15935	-2.9706
NOL9	0.2908683	7.4003847	2.9887311	0.0148613	0.15949	-2.972804
PSMF1	-0.253707	10.654754	-2.988599	0.0148645	0.15949	-2.973011
TMEM156	-0.238679	8.3218479	-2.988282	0.0148723	0.15949	-2.973508
TPPP	0.1980865	6.9232165	2.9871103	0.0149009	0.15957	-2.975343
HADH	-0.262512	11.806877	-2.98668	0.0149114	0.15957	-2.976018
TRIM56	0.2355798	7.7672098	2.9866239	0.0149128	0.15957	-2.976105
MIR155HG	-0.231509	11.121466	-2.984099	0.0149747	0.16001	-2.980061
CD69	-0.25645	8.4433417	-2.984066	0.0149756	0.16001	-2.980114
GAGE5	0.1852036	6.9337623	2.9829684	0.0150025	0.16018	-2.981833
PPM1M	-0.229131	7.7199479	-2.981699	0.0150338	0.16034	-2.983822
CEBPB	-0.239882	9.612032	-2.981465	0.0150396	0.16034	-2.984188
FBL	-0.32577	11.965686	-2.980848	0.0150548	0.16038	-2.985155
LONP1	0.3911518	10.353626	2.9799015	0.0150783	0.1604	-2.986639
MFHAS1	0.2523356	7.2263947	2.9798821	0.0150787	0.1604	-2.986669
CLDN15	-0.213029	8.0944445	-2.979188	0.0150959	0.16047	-2.987756
AMY1C	0.4864632	11.562377	2.978493	0.0151132	0.16054	-2.988846
CYBA	0.2240485	11.67052	2.9751053	0.0151975	0.16131	-2.994155
RPL9	-0.279425	12.624353	-2.974684	0.015208	0.16131	-2.994815
ZBTB4	0.1993815	7.6170386	2.9739195	0.0152271	0.16132	-2.996013
ZNHIT1	-0.231513	10.56612	-2.972843	0.015254	0.16132	-2.9977
SMARCC1	0.3791726	11.406387	2.9726574	0.0152587	0.16132	-2.997991
STAG3	-0.206662	8.2521628	-2.972396	0.0152652	0.16132	-2.998401
MRPL36	-0.289655	12.097159	-2.970604	0.0153102	0.16132	-3.001209
HMGA1	0.2873985	8.3899787	2.9703612	0.0153163	0.16132	-3.00159
ZBED1	0.3910846	10.095859	2.9702628	0.0153188	0.16132	-3.001744
SEPHS2	-0.427123	9.1566911	-2.96982	0.0153299	0.16132	-3.002439
CDV3	0.2382219	10.716994	2.9695754	0.0153361	0.16132	-3.002822
KPNA6	0.3533443	9.5773272	2.9694839	0.0153384	0.16132	-3.002965
FERMT3	0.3784757	9.4446538	2.968622	0.0153601	0.16132	-3.004316
OSGEPL1	-0.183681	7.5999985	-2.968528	0.0153625	0.16132	-3.004464
SCARNA21	-0.219703	6.9797089	-2.968292	0.0153685	0.16132	-3.004834
LAMP1	0.2446334	10.266585	2.9680462	0.0153747	0.16132	-3.005218
C10orf76	0.2569834	8.522208	2.968046	0.0153747	0.16132	-3.005219

ZNF608	-0.27692	7.4010867	-2.967323	0.0153929	0.16136	-3.006352
DNMT1	0.225552	12.907239	2.9665677	0.015412	0.16136	-3.007536
KIAA2013	0.3827335	9.7395186	2.9663823	0.0154167	0.16136	-3.007826
HSPBAP1	-0.378028	8.0936046	-2.966147	0.0154227	0.16136	-3.008196
POP4	-0.201223	8.7019109	-2.96407	0.0154754	0.16179	-3.011451
RPL7L1	0.2438016	11.139701	2.9627065	0.0155101	0.1619	-3.013588
DNAJA3	-0.281195	11.473377	-2.962522	0.0155148	0.1619	-3.013877
METAP2	0.2827654	11.631973	2.9623601	0.0155189	0.1619	-3.014131
FUNDC1	-0.282652	8.8966185	-2.961296	0.0155461	0.16207	-3.015799
POLD1	0.4174868	8.9483812	2.9604168	0.0155686	0.16219	-3.017177
GADD45GIP	-0.253832	7.5504401	-2.959761	0.0155853	0.16225	-3.018205
FAM96A	-0.241679	11.241785	-2.95923	0.015599	0.16227	-3.019038
BLM	0.2175815	8.2403749	2.9534919	0.0157467	0.16369	-3.028032
RBMXP3	-0.316152	8.4341023	-2.952576	0.0157704	0.16372	-3.029467
RALY	0.3342928	9.4363834	2.9522419	0.0157791	0.16372	-3.029992
MORF4L1	-0.377065	11.348975	-2.952099	0.0157828	0.16372	-3.030215
RASA1	0.3142206	8.9378674	2.9512379	0.0158051	0.16383	-3.031566
HIST1H3E	-0.212363	7.1434758	-2.950555	0.0158229	0.1639	-3.032636
DDX28	0.2068851	8.861137	2.9501292	0.015834	0.1639	-3.033304
NXF1	0.2057006	9.4630805	2.9495438	0.0158492	0.16394	-3.034221
ATXN7L3B	0.2753713	8.9088112	2.9486495	0.0158725	0.16398	-3.035623
TUBE1	-0.310874	7.3836026	-2.948549	0.0158752	0.16398	-3.035781
DLK2	0.2413706	7.050196	2.9469703	0.0159164	0.16429	-3.038256
TARBP2	-0.190751	8.3718478	-2.946396	0.0159314	0.16432	-3.039156
NUBP1	-0.233866	8.8625648	-2.945844	0.0159459	0.16436	-3.040022
USP9Y	-0.212995	7.0846379	-2.944877	0.0159713	0.1645	-3.041538
NLN	0.2369841	7.862425	2.9433793	0.0160106	0.16479	-3.043886
UBAP2	0.4233408	8.4341024	2.9421391	0.0160433	0.16482	-3.04583
URM1	0.4226907	10.880949	2.941422	0.0160622	0.16482	-3.046955
TMEM14B	-0.517305	11.251415	-2.941079	0.0160713	0.16482	-3.047493
ELP3	-0.208475	9.1190263	-2.940717	0.0160809	0.16482	-3.048061
MMD	0.2986536	10.79529	2.9402629	0.0160929	0.16482	-3.048772
ZDHHC23	-0.221213	8.3197707	-2.939541	0.016112	0.16482	-3.049904
SCARNA11	-0.240821	7.3584214	-2.939004	0.0161262	0.16482	-3.050745
SNORA14B	-0.232322	7.2282624	-2.938867	0.0161298	0.16482	-3.05096
DIAPH2	-0.193362	7.867073	-2.938133	0.0161493	0.16482	-3.052111
C1orf43	-0.226489	9.9535086	-2.937743	0.0161597	0.16482	-3.052723
SLC25A32	-0.193925	7.2526379	-2.937742	0.0161597	0.16482	-3.052725
NLRP8	-0.330389	9.9145146	-2.937731	0.01616	0.16482	-3.052741
NOC3L	-0.509084	10.215234	-2.93756	0.0161646	0.16482	-3.053011
NR2F6	0.3309946	9.1541319	2.9372978	0.0161715	0.16482	-3.053421
MTX3	0.2882706	8.4110349	2.9358364	0.0162104	0.1651	-3.055713
RBM38	0.3089965	8.6502169	2.9337346	0.0162666	0.16555	-3.059008
MTIF3	-0.19915	8.6757922	-2.93268	0.0162948	0.16555	-3.060662
LRRC34	-0.278994	7.1672107	-2.932225	0.016307	0.16555	-3.061376

RAD51	-0.177578	7.7795571	-2.932047	0.0163118	0.16555	-3.061655
RAD54B	0.1907532	8.2272346	2.9318106	0.0163181	0.16555	-3.062025
MNAT1	-0.505117	8.4134625	-2.931296	0.0163319	0.16555	-3.062832
YIPF3	-0.35223	8.488492	-2.931226	0.0163338	0.16555	-3.062942
SLC19A2	0.2297931	7.7264483	2.928117	0.0164175	0.16621	-3.067817
H6PD	0.2175403	7.3431243	2.9274422	0.0164358	0.16621	-3.068875
DGAT2	0.2047379	7.3822428	2.926905	0.0164503	0.16621	-3.069718
CYB5R3	0.2436738	10.574977	2.9268668	0.0164513	0.16621	-3.069777
KANSL2	-0.259316	10.350518	-2.926205	0.0164693	0.16621	-3.070815
C8orf76	-0.256912	10.146058	-2.925907	0.0164773	0.16621	-3.071283
CCNH	-0.277516	8.9986358	-2.925845	0.016479	0.16621	-3.071379
SLC25A28	-0.309608	10.01974	-2.924409	0.016518	0.16649	-3.073631
SNORD100	-0.313649	8.1330395	-2.923658	0.0165384	0.16651	-3.074809
HLA-DMB	-0.262498	11.789183	-2.923495	0.0165428	0.16651	-3.075064
CYFIP2	0.2400324	10.812183	2.9229673	0.0165572	0.16654	-3.075893
NKG7	0.2732071	7.2017961	2.9185296	0.0166785	0.16765	-3.082852
EVI5	-0.302672	8.5925386	-2.9165	0.0167343	0.16809	-3.086035
UBA1	0.5172315	9.6686728	2.9159416	0.0167497	0.16813	-3.08691
SRBD1	0.1914839	8.5822359	2.9144333	0.0167913	0.16836	-3.089276
CHEK2	-0.178679	8.6867493	-2.914293	0.0167952	0.16836	-3.089496
CCNG1	-0.221057	9.1932078	-2.911875	0.0168622	0.16891	-3.093288
FUBP3	0.2601683	10.305275	2.911427	0.0168746	0.16892	-3.093991
SNORD24	-0.222867	6.8813392	-2.910191	0.016909	0.16905	-3.095929
UGT2B17	-0.223287	7.2032053	-2.910113	0.0169112	0.16905	-3.096051
RGS10	-0.256859	9.6291127	-2.90893	0.0169441	0.16913	-3.097907
KLHDC1	0.2153956	6.8607774	2.908707	0.0169503	0.16913	-3.098257
FAM231C	-0.173792	7.1515664	-2.908589	0.0169536	0.16913	-3.098442
SH3BP1	0.4337777	8.0409655	2.906626	0.0170085	0.16956	-3.10152
UFD1	-0.219463	7.5788182	-2.905617	0.0170368	0.1697	-3.103103
SLC41A3	-0.422563	8.7957425	-2.905295	0.0170458	0.1697	-3.103607
C2orf88	-0.238565	7.6720234	-2.904557	0.0170665	0.16978	-3.104765
SCARB1	0.5499867	9.5657597	2.90419	0.0170768	0.16978	-3.105341
PARPBP	-0.308172	8.4163559	-2.902803	0.0171159	0.17005	-3.107517
CDK9	-0.225272	8.7927178	-2.902248	0.0171315	0.17009	-3.108387
SLC35A4	0.2801046	8.3171679	2.9011665	0.0171621	0.17028	-3.110083
EFHD2	0.2756186	11.509407	2.8997623	0.0172018	0.17056	-3.112286
HTATIP2	-0.322465	9.1878198	-2.899007	0.0172232	0.17061	-3.11347
MRPS18A	-0.380486	8.9632833	-2.898757	0.0172303	0.17061	-3.113862
PSMD6	0.2219249	11.648451	2.8981463	0.0172476	0.17066	-3.11482
SBNO2	0.3031589	7.215021	2.8974092	0.0172686	0.17074	-3.115976
IL11RA	-0.193686	7.2633224	-2.89704	0.0172791	0.17074	-3.116556
RBBP8	0.2017781	8.8783016	2.8944818	0.017352	0.1713	-3.120568
EIF1AD	-0.36052	6.9628386	-2.893913	0.0173683	0.1713	-3.12146
POLE	0.3868391	8.4930338	2.8935241	0.0173794	0.1713	-3.12207
CCL4L2	0.3576181	10.970312	2.8934374	0.0173819	0.1713	-3.122206

NFX1	-0.197282	8.2174587	-2.892992	0.0173946	0.17131	-3.122906
NUP93	0.2993867	10.710182	2.892003	0.017423	0.17147	-3.124456
PSMG3	-0.242065	8.4778089	-2.890909	0.0174544	0.17157	-3.126171
STK36	-0.317995	9.4438965	-2.890711	0.0174601	0.17157	-3.126482
BSG	0.6033225	10.097642	2.8904281	0.0174682	0.17157	-3.126926
SAMD1	0.2951806	7.7594284	2.8893261	0.0175	0.17157	-3.128655
TAF2	0.3148682	9.2363054	2.8892367	0.0175025	0.17157	-3.128795
ACAT2	-0.187224	9.4064146	-2.889184	0.0175041	0.17157	-3.128877
ZNF652	-0.242465	10.412814	-2.888423	0.017526	0.17157	-3.130071
FASN	0.2340075	12.894573	2.8883873	0.017527	0.17157	-3.130127
PIK3C3	-0.271129	7.930654	-2.887693	0.0175471	0.17164	-3.131217
WAS	0.2551971	11.45202	2.8873325	0.0175575	0.17164	-3.131782
DGCR6	-0.253494	8.8181455	-2.88605	0.0175947	0.17188	-3.133794
GRIP2	0.2448195	7.1021684	2.8856497	0.0176063	0.17188	-3.134422
CFDP1	0.230987	8.8566397	2.8851711	0.0176201	0.1719	-3.135172
SPINT2	-0.198829	9.4686147	-2.883794	0.0176602	0.17212	-3.137333
SIGMAR1	0.3130353	8.9676795	2.8835862	0.0176662	0.17212	-3.137658
ARHGEF1	0.2235459	7.9033111	2.8825892	0.0176953	0.17229	-3.139222
CLYBL	-0.186447	7.6095242	-2.881996	0.0177126	0.17234	-3.140153
PRMT6	0.1961405	9.3355843	2.8815744	0.0177249	0.17235	-3.140814
STK39	0.2057412	10.390514	2.8807616	0.0177486	0.17246	-3.142089
IDNK	-0.179531	7.8902703	-2.879957	0.0177721	0.17258	-3.143351
HADHA	-0.317872	9.0316972	-2.878324	0.01782	0.17287	-3.145912
TTC4	-0.257947	10.775004	-2.878122	0.017826	0.17287	-3.14623
AKT1	0.2324268	9.552627	2.8757798	0.0178949	0.1733	-3.149904
EIF4H	0.2770839	10.656221	2.8757417	0.017896	0.1733	-3.149963
LIG1	0.3557058	8.8777289	2.8754025	0.017906	0.1733	-3.150495
LYSMD2	-0.219012	10.220263	-2.874871	0.0179217	0.17334	-3.15133
HIST1H2AC	-0.232823	7.1985388	-2.873845	0.017952	0.17336	-3.152939
WEE1	0.2745466	9.771221	2.8737536	0.0179547	0.17336	-3.153082
METTL9	-0.195493	7.376019	-2.87359	0.0179596	0.17336	-3.153339
HIST2H4B	-0.34001	7.5096202	-2.872862	0.0179811	0.17343	-3.154481
POLR3C	-0.262495	10.090364	-2.872525	0.0179911	0.17343	-3.155009
RIC8A	0.2124597	9.9055539	2.8720217	0.0180061	0.17346	-3.155799
STAMBP	-0.183634	9.6005865	-2.870611	0.018048	0.17362	-3.158012
RABGAP1L	-0.277582	8.7449612	-2.87051	0.018051	0.17362	-3.15817
LOC153577	0.2125298	6.9507364	2.8701012	0.0180631	0.17362	-3.158811
TMED3	-0.273542	11.662376	-2.86987	0.01807	0.17362	-3.159173
POM121L4P	-0.223759	7.0624259	-2.869409	0.0180838	0.17364	-3.159898
ATG4C	0.262985	9.1179908	2.868975	0.0180967	0.17365	-3.160578
VDAC3	-0.245863	11.474655	-2.867624	0.018137	0.17392	-3.162698
HIST3H2A	-0.268005	8.300632	-2.865799	0.0181917	0.17398	-3.165559
SYNE2	0.2230357	7.4711927	2.8657366	0.0181935	0.17398	-3.165658
MVB12A	-0.31911	9.390503	-2.864822	0.018221	0.17398	-3.167093
MFSD6	0.1952919	8.5698813	2.864731	0.0182237	0.17398	-3.167236

ATP6AP1	-0.334802	10.731635	-2.864575	0.0182284	0.17398	-3.167481
IMMP2L	-0.214945	8.3874862	-2.864414	0.0182332	0.17398	-3.167732
HMBS	-0.225703	10.057383	-2.864369	0.0182346	0.17398	-3.167803
ARHGAP44	-0.23078	8.7118351	-2.864249	0.0182382	0.17398	-3.167992
PPP1R16A	-0.349821	8.580837	-2.863753	0.0182531	0.17401	-3.16877
OSTC	-0.225659	11.291846	-2.862947	0.0182774	0.17412	-3.170035
RER1	-0.19612	8.7748873	-2.860538	0.0183501	0.1747	-3.173814
ZNF804A	0.1849992	7.3924453	2.8599574	0.0183677	0.1747	-3.174724
JMJD7-PLA2	-0.246168	8.320314	-2.859744	0.0183742	0.1747	-3.175058
TGM3	0.194162	7.0724235	2.8593719	0.0183854	0.1747	-3.175642
CUX1	0.2500374	7.8410612	2.858827	0.018402	0.17474	-3.176497
FADD	-0.29802	9.4807628	-2.858241	0.0184197	0.17475	-3.177416
HYLS1	-0.206638	8.1369774	-2.857994	0.0184272	0.17475	-3.177804
FOXJ2	0.2114148	9.2804079	2.8557119	0.0184967	0.17519	-3.181384
DIS3L2	0.1785655	7.4221386	2.8555118	0.0185028	0.17519	-3.181698
BIRC6	0.2279346	8.1643717	2.8552375	0.0185112	0.17519	-3.182128
PPAT	0.2905606	10.301802	2.8547839	0.018525	0.17519	-3.182839
COQ3	-0.308355	9.6751463	-2.854301	0.0185398	0.17519	-3.183598
EPB41L4A	0.2510634	7.4731926	2.8541084	0.0185457	0.17519	-3.183899
KYAT1	-0.335332	8.4442239	-2.852849	0.0185842	0.17544	-3.185875
TNFRSF14	-0.337894	10.739974	-2.852263	0.0186022	0.17545	-3.186793
RPF2	0.2482881	11.102562	2.8520331	0.0186093	0.17545	-3.187155
SNAP91	-0.171379	6.7415286	-2.850662	0.0186514	0.17574	-3.189306
APTX	-0.219145	10.545601	-2.849395	0.0186904	0.1759	-3.191293
ZNF770	0.2389715	8.7070025	2.8493319	0.0186923	0.1759	-3.191392
RPL39	-0.255697	14.427216	-2.848469	0.018719	0.17603	-3.192746
USB1	0.4174879	8.9659887	2.8457657	0.0188026	0.17671	-3.196986
FASTK	-0.197884	8.4507229	-2.845029	0.0188255	0.17681	-3.198142
PDK1	-0.242162	7.0408187	-2.843791	0.0188639	0.17701	-3.200083
STK32C	0.2229279	7.0749592	2.8435444	0.0188716	0.17701	-3.200471
NAF1	0.3106537	8.2522192	2.8430019	0.0188885	0.17706	-3.201322
SNORA9	-0.235901	8.1372521	-2.842576	0.0189018	0.17707	-3.20199
ILKAP	-0.23561	8.6954563	-2.841269	0.0189426	0.17723	-3.20404
TAF1	0.1983458	7.1569905	2.8408878	0.0189545	0.17723	-3.204638
ATG5	-0.354851	7.9890526	-2.840498	0.0189667	0.17723	-3.20525
RSC1A1	0.2011208	8.0196841	2.840325	0.0189721	0.17723	-3.205521
RHBDL3	0.3042445	7.0314379	2.840067	0.0189802	0.17723	-3.205926
GPALPP1	-0.269426	7.2633797	-2.839045	0.0190122	0.17731	-3.207529
SPTBN1	0.179409	7.6589316	2.8387583	0.0190212	0.17731	-3.207979
ACIN1	0.3379962	9.3615637	2.8386248	0.0190254	0.17731	-3.208188
FXR2	0.2761647	8.1296755	2.8374789	0.0190614	0.17754	-3.209986
ARAP2	0.2075885	7.331681	2.8367825	0.0190833	0.17754	-3.211078
COBLL1	0.3356832	10.749652	2.8366898	0.0190862	0.17754	-3.211223
RNF103	0.1988087	8.8778767	2.8338669	0.0191753	0.17816	-3.215652
EBLN2	-0.242399	8.0219755	-2.833804	0.0191773	0.17816	-3.215751

PHLPP1	0.3192961	7.5007168	2.8330659	0.0192006	0.17827	-3.216908
CCNB1IP1	-0.206405	9.4508418	-2.831057	0.0192644	0.17874	-3.22006
KLHL22	-0.307538	8.3479963	-2.830011	0.0192977	0.17894	-3.221699
CAB39	0.3768695	11.177139	2.8290678	0.0193277	0.17897	-3.22318
MKL1	0.3765458	7.8193391	2.8289165	0.0193326	0.17897	-3.223417
COG2	-0.349376	9.1518247	-2.828028	0.0193609	0.17897	-3.224811
EBF1	0.3052605	9.2573165	2.8278283	0.0193673	0.17897	-3.225124
TMEM160	-0.170743	9.8974096	-2.827333	0.0193831	0.17897	-3.225902
CPEB2	0.2635455	7.2189473	2.8272935	0.0193844	0.17897	-3.225963
SLC38A1	0.342372	9.0058521	2.8272253	0.0193866	0.17897	-3.22607
CNOT6L	0.1938548	7.1022888	2.8259866	0.0194262	0.17906	-3.228013
GAGE2B	-0.203434	7.2334531	-2.825923	0.0194283	0.17906	-3.228113
JUN	0.2086478	7.3875515	2.8257464	0.019434	0.17906	-3.22839
TAMM41	-0.230999	9.9222914	-2.825157	0.0194528	0.17913	-3.229314
OXSM	-0.220713	7.6087884	-2.82446	0.0194752	0.17922	-3.230407
CHI3L1	0.2117694	6.9534695	2.824064	0.019488	0.17922	-3.231029
NRSN2	-0.260427	7.5520836	-2.822915	0.019525	0.17945	-3.232831
PHACTR1	0.2807768	9.2258552	2.8223974	0.0195417	0.17949	-3.233643
CBX6	0.2509318	10.74807	2.8214607	0.0195719	0.17963	-3.235112
PGRMC2	-0.340342	9.8303828	-2.821167	0.0195814	0.17963	-3.235573
COA5	-0.317138	9.1111432	-2.820007	0.0196189	0.17982	-3.237393
IFRD1	-0.268366	8.0630705	-2.819749	0.0196272	0.17982	-3.237797
PSMC6	-0.227609	9.2235274	-2.818286	0.0196747	0.18008	-3.240092
TEX33	0.1734123	7.0454198	2.8173992	0.0197035	0.18008	-3.241483
PPP1R10	0.3111459	8.5323676	2.8168848	0.0197203	0.18008	-3.24229
ARFGEF1	0.2366887	8.2068889	2.8166316	0.0197285	0.18008	-3.242687
DSTN	-0.17976	9.4372427	-2.816515	0.0197323	0.18008	-3.242869
PHLDA1	0.2016483	7.1354402	2.8163846	0.0197366	0.18008	-3.243075
CEP290	-0.245221	7.1680796	-2.816126	0.019745	0.18008	-3.243481
EIF1	0.2628617	12.464806	2.8158393	0.0197543	0.18008	-3.24393
BAP1	0.2464613	7.94108	2.8151229	0.0197777	0.18014	-3.245054
SSBP3	0.3241902	7.3255046	2.8147503	0.0197899	0.18014	-3.245638
IL4I1	0.3212399	7.468982	2.8145218	0.0197973	0.18014	-3.245996
HPS3	0.2010387	8.073528	2.8133385	0.019836	0.18033	-3.247852
SHKBP1	0.2821278	7.7800207	2.8129619	0.0198484	0.18033	-3.248443
APBA3	0.2641737	8.8112632	2.8127613	0.019855	0.18033	-3.248758
CRTC2	0.2395734	7.9623746	2.811637	0.0198918	0.18055	-3.250521
AKAP12	0.1959	6.9427098	2.8103391	0.0199345	0.18081	-3.252557
TBC1D9	-0.219261	7.2326435	-2.81002	0.019945	0.18081	-3.253057
MRPS27	0.271694	10.999829	2.8089254	0.0199811	0.18102	-3.254775
TMEM59	-0.213173	10.96551	-2.807024	0.0200439	0.18127	-3.257758
AGA	-0.222991	8.1951622	-2.806783	0.0200519	0.18127	-3.258135
PSENEN	-0.224146	7.7240045	-2.806613	0.0200575	0.18127	-3.258401
SIL1	-0.189336	7.9653592	-2.806279	0.0200686	0.18127	-3.258926
LOC1001281	-0.205673	7.1018433	-2.80623	0.0200702	0.18127	-3.259002

HNRNPCL2	-0.185886	7.8988686	-2.804907	0.0201141	0.18147	-3.261078
SHROOM3	0.1992183	7.2810831	2.8044911	0.0201279	0.18147	-3.261729
EML4	0.2776377	9.6984211	2.8044335	0.0201298	0.18147	-3.26182
SCARNA16	-0.201595	7.8301736	-2.803765	0.0201521	0.18148	-3.262868
ALDH1B1	-0.232596	8.2408675	-2.803635	0.0201564	0.18148	-3.263072
AQP11	-0.166853	7.0697726	-2.802963	0.0201788	0.1815	-3.264126
MRPL10	-0.200063	8.0069816	-2.802845	0.0201827	0.1815	-3.264312
TRIB3	-0.192373	8.6118522	-2.801915	0.0202137	0.1816	-3.265769
SMG1	0.2013639	8.2397665	2.8017506	0.0202192	0.1816	-3.266028
C15orf54	0.2156638	6.9767545	2.8008242	0.0202501	0.18177	-3.267481
MDFIC	0.2513377	7.6871799	2.7997102	0.0202874	0.18199	-3.269228
GTPBP6	-0.32948	10.810163	-2.798378	0.0203321	0.18225	-3.271317
LOC1001318	0.2484284	7.1265603	2.7980877	0.0203419	0.18225	-3.271773
BCLAF1	0.180195	9.2304911	2.7974395	0.0203637	0.18234	-3.272789
FAM222B	0.3084459	8.4102291	2.7968192	0.0203845	0.18237	-3.273762
C12orf60	-0.180858	7.6230053	-2.796595	0.0203921	0.18237	-3.274113
FKTN	-0.37648	12.254869	-2.795449	0.0204307	0.18258	-3.275912
TDRD1	-0.193788	7.5997695	-2.794938	0.020448	0.18258	-3.276713
CACNA1E	0.1856494	6.8021006	2.7947866	0.0204531	0.18258	-3.27695
LINC00158	-0.218111	9.4522131	-2.792371	0.0205348	0.18319	-3.280739
TTC8	-0.237851	7.4169575	-2.792031	0.0205464	0.18319	-3.281272
FARSA	0.2422974	8.7931253	2.791413	0.0205673	0.18319	-3.282241
YWHAE	0.4038756	9.1791331	2.7912835	0.0205717	0.18319	-3.282444
SCAF11	0.2422836	8.5147928	2.7902809	0.0206058	0.18338	-3.284016
CBS	-0.199116	10.221195	-2.789837	0.020621	0.1834	-3.284713
VPS50	-0.244175	7.3568239	-2.789199	0.0206427	0.18344	-3.285713
VPS36	-0.359908	8.7157874	-2.788965	0.0206507	0.18344	-3.286079
ZNF815P	0.1817171	7.0216413	2.7879266	0.0206861	0.18363	-3.287708
SNAP29	0.1972982	8.0561259	2.7875988	0.0206973	0.18363	-3.288222
LARS2	0.261871	8.9633199	2.7860974	0.0207487	0.18398	-3.290577
LEMD2	-0.184937	8.087791	-2.784608	0.0207998	0.18432	-3.292912
MTRR	-0.203669	9.1883435	-2.783584	0.0208351	0.18452	-3.294518
AP1M1	-0.252687	10.403658	-2.78255	0.0208707	0.18472	-3.29614
APEX2	0.3855053	9.6941573	2.7815338	0.0209057	0.18492	-3.297733
CMIP	0.1929429	8.3446835	2.7807488	0.0209329	0.18505	-3.298964
TRAPPC6A	-0.267847	8.7599084	-2.779316	0.0209825	0.18537	-3.30121
VNN2	-0.273304	9.1382698	-2.77702	0.0210622	0.18579	-3.304811
ZNF148	0.5385214	9.0046522	2.7769407	0.021065	0.18579	-3.304936
GTF3C5	0.3224591	8.6517911	2.7768483	0.0210682	0.18579	-3.305081
DDIT4	0.2593904	10.191494	2.7753087	0.0211219	0.18616	-3.307495
ZNF766	0.1812206	7.6739054	2.7746281	0.0211456	0.18625	-3.308562
UTP18	-0.189329	9.2160279	-2.773923	0.0211703	0.18636	-3.309668
CD320	0.2451682	9.3881989	2.7733673	0.0211897	0.18638	-3.310539
PAIP2B	0.2484402	7.02223	2.7731324	0.021198	0.18638	-3.310907
AURKAPS1	-0.269781	7.0980762	-2.771368	0.0212599	0.18681	-3.313674

GEMIN8	-0.197026	7.6225159	-2.770984	0.0212733	0.18681	-3.314275
EEF1A1P9	-0.242164	13.514047	-2.770003	0.0213078	0.187	-3.315813
PTPRE	0.1669954	7.0462053	2.7694983	0.0213256	0.18701	-3.316606
STT3B	0.1801449	8.9522883	2.7687387	0.0213524	0.18701	-3.317797
ZDHHC12	0.3083535	8.1372163	2.7684423	0.0213629	0.18701	-3.318261
TMEM183B	-0.188622	11.665169	-2.768267	0.0213691	0.18701	-3.318536
PWP2	-0.254683	7.3954735	-2.768077	0.0213758	0.18701	-3.318834
SH2D1A	0.2665642	7.1699946	2.7672134	0.0214063	0.18701	-3.320188
CA8	-0.171029	6.674407	-2.766892	0.0214177	0.18701	-3.320692
SNORA41	-0.214419	8.2855827	-2.766655	0.0214261	0.18701	-3.321063
QTRT2	0.2082424	8.5606046	2.7663837	0.0214357	0.18701	-3.321489
HSD17B12	0.1741309	10.582293	2.7663654	0.0214363	0.18701	-3.321518
TXNRD2	-0.185596	8.5126822	-2.765757	0.0214579	0.18701	-3.322472
UBE2D2	-0.167423	8.1905527	-2.765627	0.0214625	0.18701	-3.322675
IGF2BP1	0.2561719	7.7658257	2.7629443	0.0215579	0.18768	-3.326881
ZNF91	0.2025636	7.6607736	2.7627461	0.0215649	0.18768	-3.327192
ZBTB3	-0.192673	7.8325472	-2.761389	0.0216134	0.18799	-3.329319
TMEM91	-0.347772	7.6258332	-2.758974	0.0216998	0.18863	-3.333106
LYL1	-0.350936	9.3249658	-2.757659	0.021747	0.18893	-3.335168
NEUROG1	0.1975786	6.8981972	2.7565604	0.0217866	0.18916	-3.33689
CBFB	0.1757984	8.3024023	2.7558321	0.0218128	0.18927	-3.338031
EAPP	-0.270798	7.7351377	-2.75466	0.0218551	0.18945	-3.339869
SIX5	-0.234774	7.1995856	-2.754556	0.0218589	0.18945	-3.340032
LEAP2	-0.196894	7.1617312	-2.753102	0.0219115	0.18979	-3.342311
ARHGAP45	-0.215124	8.6537314	-2.75206	0.0219492	0.19001	-3.343944
MZF1	-0.214349	7.7151354	-2.750991	0.0219881	0.1901	-3.345621
SPRYD4	-0.192515	8.1723059	-2.750983	0.0219884	0.1901	-3.345633
TMEM167A	-0.274536	8.8593037	-2.750689	0.0219991	0.1901	-3.346094
CLEC2D	-0.313602	9.5406831	-2.748671	0.0220726	0.19062	-3.349257
DDI1	0.175669	6.9493541	2.7479023	0.0221006	0.19075	-3.350462
RFX5	0.165643	9.1717635	2.7475219	0.0221145	0.19076	-3.351058
CCDC177	0.2241339	6.9385597	2.746978	0.0221344	0.19076	-3.351911
CCL17	-0.192058	7.9565212	-2.746611	0.0221479	0.19076	-3.352486
AUNIP	-0.282628	8.9541842	-2.746446	0.0221539	0.19076	-3.352744
GON7	-0.24325	10.033735	-2.745798	0.0221776	0.19085	-3.35376
GATAD2B	0.4437305	7.9106378	2.7449422	0.0222091	0.19085	-3.355101
SLC25A4	0.2373269	10.73376	2.7449359	0.0222093	0.19085	-3.355111
CBLN3	-0.183354	8.3983219	-2.744716	0.0222174	0.19085	-3.355456
DDX1	0.2392254	11.820273	2.7442046	0.0222362	0.19087	-3.356258
WDR74	-0.274	7.8176107	-2.743726	0.0222538	0.19087	-3.357008
TTC13	-0.235945	8.4093214	-2.743604	0.0222582	0.19087	-3.357199
SNORD50B	-0.232019	6.9119205	-2.741477	0.0223367	0.19129	-3.360532
SQLE	0.1805133	10.507158	2.7410722	0.0223516	0.19129	-3.361167
CTR9	-0.213763	7.3892559	-2.741053	0.0223523	0.19129	-3.361198
GPNMB	-0.220603	7.7030243	-2.740848	0.0223599	0.19129	-3.361518

IER5	0.286182	8.9439909	2.740326	0.0223792	0.1913	-3.362337
RPL21	-0.511943	13.795728	-2.740097	0.0223877	0.1913	-3.362696
RAP1B	-0.206606	7.6048237	-2.739707	0.0224022	0.19132	-3.363307
BTN2A1	-0.269407	8.4599228	-2.738804	0.0224356	0.19143	-3.364722
KIF3B	0.2128091	8.4264215	2.7386355	0.0224419	0.19143	-3.364986
BCL2L1	0.3364272	9.1941167	2.7378113	0.0224725	0.19151	-3.366278
SNTA1	-0.24754	8.0791796	-2.737586	0.0224809	0.19151	-3.366632
ATXN7L3	0.2929003	8.485294	2.7373191	0.0224908	0.19151	-3.367049
RPL15	-0.23177	12.914823	-2.735955	0.0225416	0.19183	-3.369186
SPTBN2	0.1854832	6.923175	2.7353026	0.0225659	0.19189	-3.370209
EPOP	0.3550495	9.0555822	2.7350632	0.0225748	0.19189	-3.370585
WFDC5	0.1639357	6.8768147	2.7346417	0.0225906	0.19191	-3.371245
C17orf62	0.2444786	8.6750706	2.7335711	0.0226306	0.19202	-3.372923
MIR7-3HG	-0.32084	7.9418042	-2.733313	0.0226403	0.19202	-3.373327
LRRC8D	0.189566	8.3043468	2.7328645	0.0226571	0.19202	-3.37403
NIPSNAP3A	-0.243458	7.6500824	-2.732778	0.0226603	0.19202	-3.374166
WAC	0.1903304	8.9999478	2.7325587	0.0226685	0.19202	-3.37451
MED1	0.1707223	8.4232051	2.7314802	0.022709	0.19217	-3.3762
CREB3L2	0.2517231	8.1088372	2.7313709	0.0227131	0.19217	-3.376371
TXNDC9	-0.454584	8.5276347	-2.73084	0.0227331	0.19223	-3.377203
TAOK2	0.1708739	7.0452016	2.7287024	0.0228136	0.19257	-3.380552
HLA-DPA1	0.2093373	12.653932	2.7284464	0.0228232	0.19257	-3.380954
C15orf57	-0.184154	8.9648167	-2.728216	0.0228319	0.19257	-3.381314
IGFL3	-0.210281	7.2588006	-2.728026	0.0228391	0.19257	-3.381612
WDR61	-0.179127	11.055708	-2.728012	0.0228396	0.19257	-3.381634
PDIA3P1	-0.227775	8.8597604	-2.727551	0.022857	0.19261	-3.382356
BRF1	0.229018	7.3337704	2.7268217	0.0228846	0.19263	-3.383499
ADAR	0.2149761	9.1719343	2.7267838	0.0228861	0.19263	-3.383559
SEC63	0.1753747	7.6342899	2.7264463	0.0228989	0.19263	-3.384088
RPS17P16	-0.235375	12.108422	-2.725197	0.0229462	0.19275	-3.386044
TMEM205	-0.372078	10.76196	-2.725077	0.0229508	0.19275	-3.386233
URB1	0.3069963	7.3448175	2.7250222	0.0229528	0.19275	-3.386319
LPXN	-0.226221	12.244542	-2.722533	0.0230476	0.19343	-3.39022
SMTN	0.215093	7.3480304	2.7220837	0.0230647	0.19346	-3.390923
TMEM150A	-0.260498	7.5603368	-2.721084	0.0231029	0.19351	-3.392489
DESI2	0.1639415	10.336043	2.7207769	0.0231146	0.19351	-3.392971
DIAPH3	0.177465	7.4687703	2.7202033	0.0231365	0.19351	-3.393869
C14orf1	0.2008644	6.9730914	2.7198631	0.0231496	0.19351	-3.394402
AOC4P	-0.276839	10.073841	-2.719819	0.0231512	0.19351	-3.394471
C16orf86	0.1749893	6.9416624	2.7196798	0.0231566	0.19351	-3.394689
RFX1	0.1932835	7.790308	2.7195157	0.0231629	0.19351	-3.394946
POLA1	0.1659605	8.1076132	2.7188539	0.0231882	0.19361	-3.395983
CCZ1	-0.172508	8.5439825	-2.715441	0.0233195	0.19436	-3.40133
WIZ	0.186559	6.9609202	2.7154053	0.0233209	0.19436	-3.401386
CFAP206	-0.192086	6.949568	-2.715112	0.0233322	0.19436	-3.401845

PIN4	-0.197105	7.1870132	-2.71472	0.0233473	0.19436	-3.402459
ZFP36	0.1827842	9.1403913	2.7146692	0.0233493	0.19436	-3.402539
ABLIM1	0.1642419	8.031254	2.7141503	0.0233694	0.19436	-3.403352
NARS2	-0.220004	9.0396616	-2.714091	0.0233717	0.19436	-3.403445
RDH11	-0.202163	9.6190787	-2.713473	0.0233956	0.19445	-3.404412
PHF20	0.1999824	7.7701997	2.7126979	0.0234256	0.19455	-3.405627
ZNF8	0.1799845	7.0732078	2.7124716	0.0234344	0.19455	-3.405982
PRKAR2A	0.3300216	7.8416801	2.7109586	0.0234931	0.19483	-3.408352
CCDC97	0.2414086	8.6854051	2.7106495	0.0235051	0.19483	-3.408836
ETS1	0.2600836	10.82184	2.7105699	0.0235082	0.19483	-3.408961
TIPIN	-0.241126	8.6424283	-2.709928	0.0235332	0.19491	-3.409967
RNF216P1	0.1887491	7.6581948	2.7096203	0.0235452	0.19491	-3.410448
SMARCC2	0.3706319	7.8299424	2.7093044	0.0235575	0.19491	-3.410943
SNHG11	-0.237589	7.9315775	-2.708963	0.0235708	0.19491	-3.411478
BCAR3	0.2209878	8.5815768	2.707792	0.0236165	0.19518	-3.413312
SRCAP	0.1758883	7.1303228	2.7071616	0.0236411	0.19527	-3.414299
PFAS	0.2180926	10.767339	2.7050973	0.023722	0.1957	-3.417532
SELENOT	-0.265518	8.2421691	-2.704859	0.0237314	0.1957	-3.417906
PEX2	-0.252659	9.3630479	-2.704638	0.0237401	0.1957	-3.418252
LRCH4	-0.289125	8.0942216	-2.704451	0.0237474	0.1957	-3.418545
NQO2	-0.203978	8.8082548	-2.703589	0.0237813	0.19587	-3.419894
FAM168B	0.2020403	8.7263988	2.7028005	0.0238124	0.19592	-3.42113
RABGAP1	0.4396809	9.1692565	2.702538	0.0238227	0.19592	-3.421541
CNOT3	0.3580314	7.8020588	2.7021658	0.0238374	0.19592	-3.422124
NSUN6	-0.189448	7.7327379	-2.70208	0.0238408	0.19592	-3.422258
ICA1	-0.181014	7.9155426	-2.701346	0.0238697	0.19605	-3.423407
GLOD4	-0.351954	10.043884	-2.70045	0.0239051	0.19617	-3.42481
TRIM55	-0.256475	8.4964118	-2.700231	0.0239138	0.19617	-3.425154
BTN2A2	-0.209468	7.6018574	-2.699389	0.0239471	0.19617	-3.426472
USPL1	-0.308886	8.4788045	-2.69935	0.0239487	0.19617	-3.426533
ARHGAP33	-0.284291	8.2728534	-2.699263	0.0239521	0.19617	-3.426669
KANK3	-0.168935	7.1900536	-2.697808	0.0240099	0.19646	-3.428948
ANGPT1	0.1815657	6.9947528	2.6976898	0.0240146	0.19646	-3.429133
ATF5	-0.241238	8.9990743	-2.697218	0.0240333	0.19648	-3.429873
SLK	0.2810179	7.9927765	2.69697	0.0240432	0.19648	-3.430261
HIST1H2BG	-0.172416	6.9144757	-2.696278	0.0240708	0.1965	-3.431344
LNPK	0.2417562	7.6029386	2.6961628	0.0240753	0.1965	-3.431525
MT1E	0.1720131	7.0795184	2.6958851	0.0240864	0.1965	-3.431959
ZNF579	0.1753963	7.4957548	2.6954745	0.0241028	0.19653	-3.432602
SFSWAP	0.2379743	8.5892677	2.6940251	0.0241607	0.19689	-3.434872
MYL1	-0.20109	6.9547958	-2.69208	0.0242386	0.19719	-3.437918
POLR2D	0.2058451	9.9471518	2.6920397	0.0242402	0.19719	-3.437981
RAB11FIP2	0.2295512	8.612817	2.6919779	0.0242426	0.19719	-3.438077
EBNA1BP2	0.2103649	12.108752	2.6917347	0.0242524	0.19719	-3.438458
SYDE1	-0.181892	6.7363746	-2.688317	0.02439	0.1981	-3.443809

YBEY	-0.17818	9.1855753	-2.688291	0.024391	0.1981	-3.44385
ARID3B	0.1668591	7.3418143	2.6876328	0.0244176	0.19811	-3.44488
HLA-E	0.3755636	10.278167	2.6875928	0.0244192	0.19811	-3.444943
HSPA13	-0.1898	7.3170084	-2.686944	0.0244455	0.19821	-3.445959
TK1	0.3983679	8.8027028	2.6864658	0.0244648	0.19826	-3.446708
TMEM100	-0.16569	7.3842035	-2.683027	0.0246045	0.19928	-3.452092
TUG1	0.3956982	10.892414	2.6824925	0.0246262	0.19935	-3.452928
MTRF1	-0.233593	7.5849974	-2.68198	0.0246471	0.19935	-3.45373
RPL32	-0.179701	9.7913082	-2.681802	0.0246544	0.19935	-3.454009
ERVK13-1	-0.176921	6.9622385	-2.681117	0.0246824	0.19947	-3.455081
TM7SF3	0.3368679	8.4295134	2.6803975	0.0247118	0.1996	-3.456207
FAM199X	-0.275124	7.4179049	-2.679978	0.0247289	0.19962	-3.456864
PRPF3	0.2239026	9.8479261	2.6781424	0.0248042	0.19998	-3.459737
TMA16	-0.239448	7.2033721	-2.678056	0.0248077	0.19998	-3.459871
KMT5A	0.2249878	8.8109894	2.6777551	0.0248201	0.19998	-3.460343
RNF19B	0.6736964	8.7428863	2.6775645	0.0248279	0.19998	-3.460641
DUSP14	-0.250679	9.2931338	-2.675562	0.0249104	0.20053	-3.463775
PP12613	0.2332906	7.0381162	2.6747446	0.0249441	0.20069	-3.465055
CRHR2	0.2680833	7.1215772	2.6743414	0.0249607	0.20072	-3.465686
AAMP	0.3457721	8.8501845	2.6735364	0.024994	0.2008	-3.466946
CCDC24	-0.183027	8.3950378	-2.673067	0.0250135	0.2008	-3.467681
ARL6	-0.18961	7.0919997	-2.672852	0.0250224	0.2008	-3.468018
FANCI	-0.357343	8.8710728	-2.672472	0.0250381	0.2008	-3.468612
HIST1H4C	0.4773925	13.916071	2.672054	0.0250554	0.2008	-3.469266
SCAI	-0.210434	6.9957013	-2.671903	0.0250617	0.2008	-3.469502
OXSR1	0.208875	10.312983	2.6717531	0.0250679	0.2008	-3.469737
PACS2	0.2299839	7.5020456	2.6709137	0.0251028	0.20091	-3.47105
RETREG2	0.2015055	7.6169571	2.6706285	0.0251146	0.20091	-3.471497
RFX7	0.2059261	8.5165331	2.6704524	0.0251219	0.20091	-3.471772
CLC	0.1713683	7.0141846	2.670101	0.0251366	0.20091	-3.472322
SLC7A8	0.2003604	6.9092303	2.6691618	0.0251757	0.20111	-3.473792
MDN1	0.2743469	7.4775645	2.6688115	0.0251903	0.20111	-3.47434
METTL22	-0.20475	8.7746886	-2.668529	0.0252021	0.20111	-3.474783
PSMG4	0.2683895	10.13659	2.6678766	0.0252293	0.20121	-3.475803
CHPF	0.2197288	7.7634275	2.6672044	0.0252574	0.20133	-3.476855
IRF8	0.2631859	11.347744	2.6660515	0.0253056	0.20147	-3.478659
TPI1P2	-0.364775	10.797623	-2.665833	0.0253148	0.20147	-3.479001
RFFL	0.3071421	9.3257085	2.665797	0.0253163	0.20147	-3.479057
EIF4EBP2	0.1997084	8.7752099	2.6643626	0.0253765	0.20184	-3.481302
BAG2	-0.358031	8.204742	-2.663316	0.0254205	0.20208	-3.482938
ZC3H18	0.2328028	7.8369027	2.6628349	0.0254408	0.20213	-3.483692
C16orf91	-0.196171	8.4873689	-2.662439	0.0254575	0.20215	-3.484312
MAP3K8	-0.203979	8.7986204	-2.661501	0.025497	0.20235	-3.485779
SRSF3	-0.1925	8.7172865	-2.66074	0.0255292	0.2025	-3.48697
RSPRY1	0.1878721	9.241715	2.6581345	0.0256395	0.20321	-3.491045

SNORA59B	0.2200771	7.0442914	2.657968	0.0256466	0.20321	-3.491306
VHL	0.2660076	9.0544816	2.6574344	0.0256693	0.20328	-3.492141
BLVRB	-0.479611	7.9278883	-2.656975	0.0256888	0.20332	-3.492859
NUP210	0.3828599	9.2905535	2.6561408	0.0257243	0.20349	-3.494164
C1orf52	-0.217813	9.2157387	-2.655549	0.0257495	0.20358	-3.495089
RPUSD2	-0.252284	10.293039	-2.653761	0.0258258	0.20408	-3.497886
C19orf66	-0.257353	7.8989198	-2.653399	0.0258413	0.20409	-3.498453
LOC441087	0.3116549	11.006157	2.6530322	0.025857	0.2041	-3.499027
PRRT3	0.2089893	7.8370623	2.6519178	0.0259048	0.20418	-3.50077
PLPP6	0.1778473	7.6284274	2.6515728	0.0259196	0.20418	-3.501309
ATP5O	0.2644867	13.195378	2.6511755	0.0259367	0.20418	-3.501931
HEATR5A	0.2210906	7.6573495	2.6506713	0.0259583	0.20418	-3.502719
PLEKHM2	0.279879	10.488312	2.6500685	0.0259842	0.20418	-3.503662
PCSK4	-0.198809	6.9379324	-2.649945	0.0259896	0.20418	-3.503855
ZC3HAV1	0.1779512	8.3036274	2.6498583	0.0259933	0.20418	-3.503991
SKA1	0.2046451	8.1353144	2.6497933	0.0259961	0.20418	-3.504092
SEC23IP	0.1650725	8.5806894	2.6496294	0.0260031	0.20418	-3.504349
ATAD2B	0.2543605	7.436842	2.6493948	0.0260132	0.20418	-3.504716
CSTB	0.1775143	11.327088	2.6488244	0.0260378	0.20418	-3.505608
TMEM141	-0.345593	9.5543116	-2.648724	0.0260422	0.20418	-3.505765
LY96	-0.439902	9.7679544	-2.647959	0.0260752	0.20418	-3.506961
STX8	-0.229113	9.8569864	-2.647927	0.0260766	0.20418	-3.507012
TRAPPC2L	-0.25542	9.7852224	-2.64758	0.0260915	0.20418	-3.507554
RNF34	-0.192615	8.8080184	-2.647268	0.026105	0.20418	-3.508042
BRD3	0.4173534	8.5945368	2.6472044	0.0261078	0.20418	-3.508141
ZNF653	-0.271503	8.1367266	-2.646537	0.0261366	0.20418	-3.509186
INPP5E	0.2222412	8.0411842	2.6464754	0.0261393	0.20418	-3.509281
TPRKB	-0.22297	8.364699	-2.646302	0.0261468	0.20418	-3.509552
MANEAL	-0.26243	7.4216933	-2.645169	0.0261959	0.20429	-3.511324
ODF2	0.1724248	8.1433604	2.6445508	0.0262227	0.20429	-3.512291
MAPK13	-0.189258	7.2153108	-2.644485	0.0262256	0.20429	-3.512393
TLR10	0.1798819	9.1922008	2.6443955	0.0262295	0.20429	-3.512534
DAGLB	-0.325531	8.7776163	-2.644374	0.0262304	0.20429	-3.512567
ASTL	-0.178264	6.9247519	-2.643868	0.0262524	0.20435	-3.513359
TMEM183A	-0.224141	9.701454	-2.64338	0.0262736	0.2044	-3.514122
LRMP	0.2265933	11.817477	2.6425584	0.0263094	0.20455	-3.515406
DICER1-AS1	-0.244102	7.2773948	-2.642314	0.02632	0.20455	-3.515788
F8A1	0.1742568	7.7244538	2.6418253	0.0263413	0.2046	-3.516553
PARN	-0.222403	8.9975674	-2.640105	0.0264165	0.20485	-3.519242
MIR181A2H	-0.266068	7.179245	-2.639676	0.0264353	0.20485	-3.519913
RALGPS1	-0.223301	7.4764387	-2.639579	0.0264395	0.20485	-3.520065
GRAMD1A	-0.381886	10.233691	-2.639409	0.026447	0.20485	-3.520331
CETN2	-0.177014	10.846444	-2.639192	0.0264565	0.20485	-3.52067
AHCTF1	0.2228502	8.8841291	2.6391739	0.0264573	0.20485	-3.520698
DIABLO	-0.159563	9.5140262	-2.638798	0.0264738	0.20487	-3.521287

FBXO8	-0.196237	8.6321391	-2.637896	0.0265133	0.20503	-3.522696
TMEM140	-0.189074	7.0574794	-2.637328	0.0265382	0.20503	-3.523583
TNIP1	0.3123925	10.32068	2.6371983	0.026544	0.20503	-3.523787
SNORA5B	0.2731931	7.0226096	2.6369284	0.0265558	0.20503	-3.524209
EIF2AK2	0.2941826	8.5293008	2.6367351	0.0265643	0.20503	-3.524511
NCF1C	0.2307985	9.8459267	2.6359364	0.0265995	0.20519	-3.52576
OSM	-0.218028	7.0292746	-2.634961	0.0266425	0.20531	-3.527285
UNC80	0.1662275	7.1229221	2.6349418	0.0266433	0.20531	-3.527314
GPATCH4	0.1866808	8.591391	2.6335723	0.0267038	0.20567	-3.529455
CIB1	-0.330701	12.082627	-2.632643	0.0267449	0.20588	-3.530907
TERF2IP	0.2255203	10.040848	2.632164	0.0267662	0.20593	-3.531656
MANBAL	-0.278884	9.289054	-2.630489	0.0268405	0.20612	-3.534275
HDGFRP2	0.2726349	8.0528481	2.6299923	0.0268626	0.20612	-3.535051
CHEK1	0.2309697	9.1928247	2.6298409	0.0268694	0.20612	-3.535287
ZMAT2	0.2555808	9.3303251	2.629508	0.0268842	0.20612	-3.535808
PRKRA	-0.342821	10.151822	-2.629152	0.0269	0.20612	-3.536364
LAMTOR2	-0.202683	10.826581	-2.628732	0.0269188	0.20612	-3.537021
HID1	0.2053649	7.0195484	2.6285158	0.0269284	0.20612	-3.537358
COX14	-0.329266	9.0473925	-2.62842	0.0269326	0.20612	-3.537507
FLI1	-0.449883	8.1993977	-2.627732	0.0269634	0.20612	-3.538584
SDHAP2	-0.267444	9.5366122	-2.627495	0.0269739	0.20612	-3.538953
GSDMB	-0.225153	7.7492139	-2.627274	0.0269838	0.20612	-3.539299
STX3	-0.2014	8.1890735	-2.627196	0.0269873	0.20612	-3.539421
DPP9	0.3533415	8.5778745	2.6271588	0.026989	0.20612	-3.539479
AGAP6	-0.214344	8.6074933	-2.626906	0.0270003	0.20612	-3.539874
AUTS2	0.2268121	8.5870546	2.626866	0.0270021	0.20612	-3.539937
MCUB	-0.307741	11.552336	-2.626371	0.0270242	0.20618	-3.540711
MS4A1	-0.253413	8.8881687	-2.625645	0.0270567	0.20626	-3.541845
DLGAP5	0.2887158	9.5886033	2.6254964	0.0270634	0.20626	-3.542077
TCF25	-0.247668	10.803688	-2.625036	0.027084	0.20631	-3.542796
PSAP	-0.31674	11.189972	-2.623587	0.0271491	0.20653	-3.54506
FAM149B1	-0.191322	8.2303375	-2.622741	0.0271872	0.20653	-3.546383
LMNB2	0.2958177	10.987073	2.6223915	0.0272029	0.20653	-3.546929
ANP32C	-0.282696	7.9307193	-2.622295	0.0272073	0.20653	-3.547079
SMARCAL1	-0.168091	8.4775455	-2.622288	0.0272076	0.20653	-3.54709
ID2	-0.179881	8.3595441	-2.622035	0.027219	0.20653	-3.547486
RBFA	-0.17423	8.4499684	-2.621929	0.0272238	0.20653	-3.547652
MIGA1	-0.221943	7.8169902	-2.62146	0.0272449	0.20653	-3.548385
TECR	0.3068984	10.762808	2.6214245	0.0272465	0.20653	-3.54844
PDHA1	0.1840063	10.879396	2.6212501	0.0272544	0.20653	-3.548712
RHOBTB2	0.2349712	7.4779471	2.6202293	0.0273005	0.20677	-3.550307
LINC00113	0.2752592	6.9454733	2.6198309	0.0273185	0.2068	-3.55093
ACBD3	0.242	9.3949121	2.6189572	0.0273581	0.20699	-3.552295
ADAT1	0.2083233	8.3494758	2.618444	0.0273814	0.20706	-3.553097
ZBTB22	-0.172357	8.5973653	-2.616518	0.0274688	0.20762	-3.556105

WASHC5	0.1940295	9.7270443	2.6149499	0.0275403	0.20778	-3.558555
LMAN2	0.2015286	7.575156	2.6149133	0.0275419	0.20778	-3.558612
ANKRD52	0.1714412	7.0600423	2.6148704	0.0275439	0.20778	-3.55868
BAZ1B	0.1871255	7.7106705	2.6147959	0.0275473	0.20778	-3.558796
ACTR1A	-0.251878	9.5243375	-2.614486	0.0275614	0.20778	-3.55928
DEF6	-0.202749	7.8691334	-2.6141	0.0275791	0.2078	-3.559884
ZBTB2	-0.258953	7.2818071	-2.613763	0.0275945	0.20781	-3.560409
GSC	0.2630563	6.9577324	2.6129151	0.0276333	0.208	-3.561734
TMEM106C	-0.374715	10.60753	-2.612605	0.0276475	0.208	-3.562218
LINC01881	-0.201113	6.9401507	-2.612166	0.0276676	0.20804	-3.562904
OR13A1	-0.272735	7.67131	-2.611753	0.0276865	0.20808	-3.563549
CLTC	-0.249121	7.9626354	-2.610381	0.0277495	0.20833	-3.565692
PA2G4	0.4446816	11.229231	2.6103429	0.0277512	0.20833	-3.565752
FAM136A	-0.319766	10.91949	-2.610089	0.0277629	0.20833	-3.566149
AURKB	0.2748597	9.9697914	2.6086848	0.0278276	0.20871	-3.568341
TAAR3P	0.2233292	6.8991059	2.6080416	0.0278572	0.20877	-3.569346
SRA1	-0.167729	8.013792	-2.607757	0.0278703	0.20877	-3.569789
IL18	-0.434695	12.093859	-2.60757	0.027879	0.20877	-3.570083
USP16	-0.186671	9.5615435	-2.605472	0.027976	0.20939	-3.573358
SNORA80E	-0.226209	7.4926368	-2.604309	0.02803	0.20958	-3.575174
CCDC94	-0.185807	8.4444935	-2.604298	0.0280305	0.20958	-3.575191
HTR4	-0.159779	6.9174092	-2.603361	0.0280741	0.2098	-3.576655
ASTE1	-0.272725	8.1267644	-2.602951	0.0280931	0.20984	-3.577295
SUOX	-0.188814	7.0822672	-2.602035	0.0281358	0.20997	-3.578725
UIMC1	-0.261445	10.727826	-2.601961	0.0281392	0.20997	-3.57884
ESPL1	0.3199408	8.3415677	2.6008075	0.028193	0.21018	-3.580642
RPLP0	0.2432319	13.448394	2.6007258	0.0281969	0.21018	-3.580769
NOB1	0.2244679	8.4814127	2.6000324	0.0282293	0.21031	-3.581852
HINFP	-0.189966	8.0775596	-2.599523	0.0282531	0.21038	-3.582647
PGBD3	-0.217652	7.1091544	-2.598862	0.0282841	0.2105	-3.58368
AURKAIP1	-0.306238	12.722754	-2.598571	0.0282977	0.2105	-3.584134
USP42	0.2391109	8.4238126	2.5981712	0.0283164	0.2105	-3.584758
CHD8	0.6059965	10.187003	2.597951	0.0283268	0.2105	-3.585102
POU2F2	0.3103086	7.4922896	2.596461	0.0283968	0.21067	-3.587428
ORC3	-0.167147	8.9515895	-2.59627	0.0284057	0.21067	-3.587725
SMARCAD1	0.2022388	8.2639717	2.5960269	0.0284172	0.21067	-3.588105
BCOR	0.2245147	7.9050002	2.5957469	0.0284304	0.21067	-3.588542
TTLL4	0.1640295	7.8825799	2.5952494	0.0284538	0.21067	-3.589319
PPP2R5A	0.2474037	8.4762021	2.5945834	0.0284852	0.21067	-3.590358
TCTN1	-0.294409	10.693384	-2.594303	0.0284985	0.21067	-3.590797
CASP14	0.2124994	7.1218177	2.5942735	0.0284999	0.21067	-3.590842
RBMX2	-0.167386	8.128259	-2.593375	0.0285423	0.21067	-3.592244
SSX3	0.1695039	7.123523	2.5932085	0.0285502	0.21067	-3.592504
MSX1	-0.206903	7.1312503	-2.593174	0.0285518	0.21067	-3.592558
SBNO1	0.1808801	7.5287216	2.5930808	0.0285562	0.21067	-3.592704

RPL41	-0.284342	11.690605	-2.592745	0.0285721	0.21067	-3.593228
FOXRED2	0.2995949	8.321265	2.5927374	0.0285725	0.21067	-3.59324
PDK3	0.2346535	8.8771791	2.5926375	0.0285772	0.21067	-3.593396
P4HTM	-0.178486	7.9022553	-2.592246	0.0285957	0.21067	-3.594006
ZNF586	-0.194784	8.5347877	-2.591986	0.0286081	0.21067	-3.594412
RPL23A	-0.269736	10.421082	-2.591954	0.0286096	0.21067	-3.594463
NIT2	-0.231394	9.5033678	-2.590734	0.0286675	0.21099	-3.596367
RDM1	0.1892084	7.2812207	2.5904541	0.0286808	0.21099	-3.596803
RDH14	0.2835718	9.7571589	2.5894835	0.0287269	0.21122	-3.598318
ZMYND19	-0.190073	9.90428	-2.588407	0.0287782	0.21142	-3.599998
TSPYL5	-0.165682	6.7087481	-2.588287	0.0287839	0.21142	-3.600185
1-Sep	0.2387756	7.6265364	2.5867108	0.0288592	0.21169	-3.602645
UBE2Q1	-0.208186	9.1631606	-2.58646	0.0288712	0.21169	-3.603037
MESP1	-0.246852	7.0188481	-2.586332	0.0288773	0.21169	-3.603237
SCAF4	0.3213269	8.750708	2.586203	0.0288834	0.21169	-3.603437
RMI2	0.1843822	8.5462657	2.5860009	0.0288931	0.21169	-3.603753
SLC25A20	-0.191225	8.0257406	-2.58464	0.0289583	0.21207	-3.605877
MIS12	-0.302486	10.149286	-2.583137	0.0290305	0.21249	-3.608221
DNM2	0.2148308	7.714207	2.5825888	0.0290569	0.21257	-3.609076
BLCAP	0.2530527	8.6467326	2.5807378	0.0291461	0.21312	-3.611964
LOC644936	0.4423486	11.208465	2.5795699	0.0292026	0.21338	-3.613786
BCAS4	-0.22526	10.392244	-2.578806	0.0292396	0.21338	-3.614978
TKT	0.2319792	12.439887	2.5787504	0.0292422	0.21338	-3.615064
RPL5	-0.179592	13.304572	-2.578603	0.0292494	0.21338	-3.615294
TMEM216	-0.201502	7.7824478	-2.578472	0.0292557	0.21338	-3.615499
UTP11	0.2288495	10.013184	2.5781997	0.0292689	0.21338	-3.615923
STX2	-0.169701	8.1474605	-2.57734	0.0293106	0.21357	-3.617264
MINOS1	-0.159902	7.4827682	-2.575893	0.029381	0.21398	-3.619521
HIP1R	0.2162219	7.9195999	2.5748035	0.0294341	0.2142	-3.621221
ZSCAN16	-0.221423	7.2731053	-2.574682	0.02944	0.2142	-3.621409
DNLZ	-0.312681	9.8307609	-2.572916	0.0295262	0.21464	-3.624164
SLC35E1	0.1744067	9.2228626	2.5720647	0.0295679	0.21464	-3.625492
TIMMDC1	-0.245511	7.6153234	-2.571893	0.0295763	0.21464	-3.625759
TRAPPC1	-0.197339	9.9141121	-2.5717	0.0295858	0.21464	-3.626061
MRPS34	0.3028656	8.6261563	2.5714904	0.0295961	0.21464	-3.626387
ENO1	0.1768259	14.135945	2.5709508	0.0296226	0.21464	-3.627229
KCNQ5	0.2341223	6.9810758	2.5709184	0.0296241	0.21464	-3.627279
RHPN1-AS1	-0.174325	6.9155702	-2.570567	0.0296414	0.21464	-3.627827
SCOC	-0.171557	8.2747538	-2.570354	0.0296519	0.21464	-3.62816
GLIPR1	-0.191504	7.7370357	-2.570165	0.0296612	0.21464	-3.628455
PLA2G16	-0.230375	6.8687608	-2.570131	0.0296628	0.21464	-3.628508
DDX39B	0.1660841	8.7403264	2.5691457	0.0297113	0.21483	-3.630044
GPT2	-0.167997	9.8608599	-2.569011	0.0297179	0.21483	-3.630254
AKNA	0.4043382	8.7966178	2.5669365	0.0298202	0.21503	-3.633488
IFI35	0.1607541	7.8808171	2.5668853	0.0298227	0.21503	-3.633568

VEZF1	-0.180234	8.8826075	-2.566735	0.0298302	0.21503	-3.633802
UNQ6494	-0.163704	7.9455384	-2.566492	0.0298422	0.21503	-3.634181
NEMP1	0.1635201	8.7945703	2.5660541	0.0298638	0.21503	-3.634864
CDAN1	-0.532546	11.803188	-2.566048	0.0298641	0.21503	-3.634874
MARK2	0.3728927	7.3734142	2.5660386	0.0298646	0.21503	-3.634888
ZNF22	-0.196415	10.822701	-2.565891	0.0298719	0.21503	-3.635119
PRPF31	0.2572011	10.203549	2.5657385	0.0298795	0.21503	-3.635356
LOC1001308	-0.171827	6.8736478	-2.564614	0.0299352	0.21524	-3.637109
MIR101-1	-0.18677	6.8497528	-2.564307	0.0299504	0.21524	-3.637588
BLNK	-0.235062	7.1101996	-2.564039	0.0299637	0.21524	-3.638006
TAGAP	-0.199379	7.3901688	-2.563731	0.029979	0.21524	-3.638486
MOB4	0.2410548	8.825845	2.5636869	0.0299812	0.21524	-3.638554
TGM6	-0.181335	6.9909037	-2.561023	0.0301138	0.21595	-3.642706
WDR83	-0.242538	8.1491359	-2.560776	0.0301261	0.21595	-3.643092
SETD1A	0.3317788	8.8697587	2.5607239	0.0301287	0.21595	-3.643173
DERL2	-0.199864	8.9523787	-2.560504	0.0301397	0.21595	-3.643515
MIR637	-0.17371	6.9240139	-2.559879	0.0301709	0.21607	-3.644489
NUDT15	-0.265698	8.3143245	-2.559355	0.0301971	0.21609	-3.645306
POLR2K	-0.340783	7.4679057	-2.558408	0.0302445	0.21609	-3.646782
ZNF684	-0.188305	7.4539636	-2.558129	0.0302585	0.21609	-3.647217
RNASEH1	0.2713311	10.549735	2.5576791	0.0302811	0.21609	-3.647918
EGOT	0.2005205	7.1380719	2.5574751	0.0302913	0.21609	-3.648236
MCFD2	-0.213293	8.1706064	-2.557257	0.0303022	0.21609	-3.648575
SLC15A4	0.2142909	9.5081763	2.557033	0.0303135	0.21609	-3.648925
C11orf68	0.1615076	7.4204428	2.5569904	0.0303157	0.21609	-3.648991
DNM1L	0.1929353	9.0455591	2.5564438	0.0303431	0.21609	-3.649843
SEM1	0.2089516	10.468916	2.5563888	0.0303459	0.21609	-3.649929
ARHGDIB	-0.239067	13.930427	-2.55615	0.0303579	0.21609	-3.650301
OLAH	-0.197421	6.9764578	-2.554822	0.0304247	0.21609	-3.65237
SRC	0.1720188	7.03594	2.5546786	0.030432	0.21609	-3.652594
PIK3CD	0.3352884	9.807299	2.5544182	0.0304451	0.21609	-3.653
SNHG6	0.2276654	12.910842	2.5543531	0.0304484	0.21609	-3.653101
TBC1D2	-0.167356	7.0263032	-2.554313	0.0304504	0.21609	-3.653163
CDH24	0.1840729	7.0687801	2.5542222	0.030455	0.21609	-3.653305
ASB1	-0.300245	8.6103074	-2.554197	0.0304563	0.21609	-3.653344
TMEM129	0.2211439	7.2688969	2.5539745	0.0304675	0.21609	-3.653691
AARS	-0.291161	12.227413	-2.553925	0.03047	0.21609	-3.653768
RNF122	0.221969	7.0858108	2.5531632	0.0305085	0.21617	-3.654955
TMEM176A	0.2049516	6.9512859	2.5530074	0.0305164	0.21617	-3.655198
CCDC88C	0.3670674	8.2217914	2.552569	0.0305385	0.21617	-3.655881
BCAP31	0.2010081	10.187421	2.5525387	0.0305401	0.21617	-3.655928
FUT11	0.1909478	7.5837726	2.5505871	0.030639	0.21676	-3.658969
LOC642131	0.2645332	7.4078445	2.5491226	0.0307134	0.21708	-3.66125
EEF1G	0.2489685	14.00765	2.5491089	0.0307141	0.21708	-3.661271
CCDC107	-0.181077	7.4363999	-2.548597	0.0307402	0.21714	-3.662069

URB2	0.198369	8.4740091	2.5483668	0.0307519	0.21714	-3.662427
FGFR3	0.1564415	6.9812602	2.5476151	0.0307902	0.2172	-3.663598
EMC6	-0.187376	9.60173	-2.547604	0.0307908	0.2172	-3.663616
TGFBR2	0.1898828	8.7304394	2.547058	0.0308186	0.21729	-3.664466
DMWD	0.2453073	7.9241328	2.5460114	0.0308721	0.21755	-3.666096
NME2	-0.176986	8.4110614	-2.54576	0.030885	0.21755	-3.666488
VCP	-0.279676	10.409414	-2.545385	0.0309042	0.21758	-3.667072
ACYP2	-0.174307	7.8241177	-2.544643	0.0309422	0.21774	-3.668227
FAM25E	0.1830601	6.8472999	2.54366	0.0309926	0.21799	-3.669758
TDP2	-0.24013	7.2635534	-2.542927	0.0310303	0.21815	-3.6709
WDR48	0.2702298	9.3641461	2.5418934	0.0310835	0.21842	-3.672509
TBL1XR1	0.1692439	8.2223752	2.5394041	0.0312119	0.21912	-3.676386
PRC1	0.2395051	10.668066	2.539392	0.0312125	0.21912	-3.676404
TMEM107	-0.156978	7.3459213	-2.537845	0.0312926	0.2195	-3.678813
MED14	0.1648818	7.6854908	2.537575	0.0313066	0.2195	-3.679234
UBE4B	0.192247	9.7437167	2.5372597	0.031323	0.2195	-3.679724
VPS4B	0.2217638	9.640169	2.5370517	0.0313338	0.2195	-3.680048
MRGBP	-0.242942	10.298113	-2.536887	0.0313424	0.2195	-3.680305
DBP	-0.174923	7.8288081	-2.535828	0.0313974	0.21978	-3.681953
HLTF	0.2799526	9.4668586	2.5345057	0.0314662	0.21991	-3.684012
VPS51	-0.21788	10.73694	-2.534425	0.0314704	0.21991	-3.684137
HRES1	0.1825618	6.9931182	2.5343195	0.0314759	0.21991	-3.684302
AMMECR1	0.1759991	8.0078604	2.5343183	0.031476	0.21991	-3.684303
ARPC5	-0.365464	11.503568	-2.532859	0.0315522	0.22034	-3.686575
ODC1	0.1818735	13.059082	2.5305442	0.0316734	0.22102	-3.690178
JUNB	0.2951984	7.8263987	2.530413	0.0316803	0.22102	-3.690382
CERK	-0.15252	8.1366535	-2.529418	0.0317326	0.22128	-3.691931
LOC100130(	0.1537301	7.0144332	2.5286461	0.0317732	0.22141	-3.693132
SLC38A9	-0.277128	7.7286548	-2.528496	0.0317811	0.22141	-3.693365
SAPCD1	-0.244471	7.3318991	-2.528074	0.0318033	0.22145	-3.694022
GEMIN5	0.1613902	8.5638884	2.5277355	0.0318211	0.22147	-3.694549
CDK1	-0.31303	9.6711798	-2.526684	0.0318766	0.22175	-3.696185
ADH6	-0.16064	6.8958748	-2.526388	0.0318923	0.22176	-3.696646
FAM212A	-0.300933	8.1522098	-2.525819	0.0319224	0.22186	-3.697532
TBC1D22A	0.2206986	8.1822716	2.5244133	0.0319968	0.22227	-3.699718
VARS	0.332927	10.532854	2.5237881	0.0320299	0.2224	-3.700691
SRPRB	-0.356192	10.429412	-2.52215	0.032117	0.22266	-3.703239
CMPK1	0.2297466	9.9773854	2.5219703	0.0321265	0.22266	-3.703519
ADI1	-0.270973	7.8111943	-2.521873	0.0321317	0.22266	-3.70367
FOXR1	0.240439	6.9659545	2.5213744	0.0321583	0.22266	-3.704446
RNH1	0.3041853	8.708337	2.520327	0.0322141	0.22266	-3.706075
BET1	-0.238666	8.29043	-2.520288	0.0322162	0.22266	-3.706136
TSPY3	0.220725	7.0754098	2.5202428	0.0322186	0.22266	-3.706206
ZNF827	0.25283	8.7090696	2.5202263	0.0322195	0.22266	-3.706232
TBC1D10B	0.2301354	7.7798443	2.5201389	0.0322241	0.22266	-3.706368

SMNDC1	-0.272498	9.8142371	-2.519733	0.0322458	0.22266	-3.706998
TAPT1	-0.21993	7.893698	-2.519727	0.0322461	0.22266	-3.707008
GNAS	0.2297257	12.776653	2.5196372	0.0322509	0.22266	-3.707148
LINC00346	0.2008065	6.8528576	2.5185206	0.0323107	0.22297	-3.708885
HDGF	0.2222306	10.012202	2.5171932	0.0323818	0.22335	-3.710949
TTPAL	0.1943565	8.6863383	2.5167831	0.0324038	0.2234	-3.711587
IFT57	-0.478199	9.0354682	-2.515747	0.0324595	0.22356	-3.713198
B9D1	-0.160833	7.4331676	-2.515588	0.032468	0.22356	-3.713446
PAK1IP1	-0.192002	8.9136014	-2.515294	0.0324838	0.22356	-3.713902
ANKRD27	-0.248524	8.5749473	-2.514892	0.0325054	0.22356	-3.714527
REL	0.1811768	7.6377635	2.5146922	0.0325162	0.22356	-3.714839
METTL25	-0.214269	8.3959028	-2.514625	0.0325199	0.22356	-3.714943
CDKN3	0.1805646	10.146877	2.5140476	0.032551	0.22367	-3.715841
FAM109A	0.211953	7.0720305	2.5132549	0.0325937	0.22386	-3.717074
MFAP4	-0.181179	7.2075229	-2.512577	0.0326304	0.224	-3.718128
SLC7A7	-0.179859	7.6024374	-2.512317	0.0326444	0.224	-3.718532
CARD9	-0.244432	7.1696097	-2.511805	0.0326722	0.22405	-3.719329
MPHOSPH9	0.1679548	8.0855287	2.5116214	0.0326821	0.22405	-3.719613
PCLAF	0.1914702	10.848973	2.5110213	0.0327146	0.22416	-3.720546
ELMO1	0.1925801	7.9510817	2.5102203	0.032758	0.22428	-3.721792
FAM35A	-0.213799	8.5884506	-2.509931	0.0327737	0.22428	-3.722241
POLR1A	0.1971645	7.6763483	2.5098638	0.0327774	0.22428	-3.722346
ILF3-AS1	-0.173465	7.9736132	-2.50939	0.0328031	0.22435	-3.723082
RAD51AP1	-0.17956	10.046545	-2.506381	0.032967	0.22526	-3.72776
GABPA	0.2689358	8.1779363	2.5062402	0.0329747	0.22526	-3.727979
SH2B2	0.454193	8.2303706	2.5058652	0.0329952	0.22526	-3.728562
SH3KBP1	0.3043073	11.147934	2.5054773	0.0330164	0.22526	-3.729164
GRK6	0.2219534	7.9494238	2.5052458	0.0330291	0.22526	-3.729524
AP1G1	0.1754715	8.384141	2.5048686	0.0330497	0.22526	-3.73011
HAUS6	-0.191804	6.9955746	-2.504844	0.0330511	0.22526	-3.730149
NDRG3	0.1770702	9.0844962	2.5045178	0.0330689	0.22526	-3.730656
SNX13	0.1549849	8.076857	2.5041189	0.0330908	0.22526	-3.731276
ADIPOR2	0.1707524	9.9798336	2.5040784	0.033093	0.22526	-3.731339
SNORD14B	-0.256658	7.3638784	-2.503829	0.0331067	0.22526	-3.731726
UBTD1	0.2600888	7.1222594	2.5034982	0.0331248	0.22528	-3.73224
PLA2G4C	-0.203605	7.3169336	-2.503056	0.0331491	0.2253	-3.732928
HSBP1	-0.298071	11.073429	-2.502898	0.0331578	0.2253	-3.733172
RNU5A-1	-0.251619	7.0303159	-2.502589	0.0331747	0.22531	-3.733653
PPP1R21	-0.243224	8.7499698	-2.502129	0.0332001	0.22537	-3.734368
COPS2	-0.265035	7.5109399	-2.499749	0.0333312	0.22602	-3.738066
PACS1	0.3317909	7.7855844	2.4996886	0.0333345	0.22602	-3.73816
AIRE	-0.42894	11.532977	-2.499551	0.0333421	0.22602	-3.738373
TPX2	0.2251623	9.5229489	2.4991018	0.0333669	0.22609	-3.739072
ZNF271P	0.1665045	8.1660429	2.4966933	0.0335003	0.22686	-3.742813
FKBP3	-0.249726	8.6098864	-2.49647	0.0335127	0.22686	-3.74316

HSPA1B	0.2882641	10.662678	2.4958675	0.0335462	0.22698	-3.744096
TRPC4	-0.187855	6.9583628	-2.495526	0.0335652	0.22701	-3.744626
STK4	0.2202809	11.689716	2.4949239	0.0335987	0.22713	-3.745562
FAM58A	-0.15923	8.9751897	-2.494313	0.0336327	0.22725	-3.74651
DCTN1-AS1	-0.174664	7.0667875	-2.493974	0.0336516	0.22728	-3.747037
TPP2	-0.179346	7.7637764	-2.493325	0.0336878	0.22742	-3.748046
RYBP	0.2288516	8.3735229	2.4930429	0.0337035	0.22742	-3.748484
MFSD12	0.1624065	7.541587	2.4918698	0.0337691	0.22774	-3.750305
TXNL1	-0.378666	8.6146785	-2.491624	0.0337828	0.22774	-3.750687
ATG4A	-0.282169	8.5257027	-2.491044	0.0338153	0.22776	-3.751588
DAXX	0.1563182	7.923039	2.4910155	0.0338169	0.22776	-3.751632
MST1	-0.219347	7.2545711	-2.489014	0.0339292	0.22841	-3.754739
CLIP1	0.1705276	7.9367381	2.4881962	0.0339752	0.22862	-3.75601
XPO6	0.3024576	9.2696834	2.4878715	0.0339934	0.22863	-3.756514
FBXO11	0.162132	8.3263248	2.4871754	0.0340327	0.22872	-3.757595
MEF2C	0.4519591	8.2293059	2.48689	0.0340488	0.22872	-3.758038
DHRS11	0.1662744	8.7457535	2.4868191	0.0340528	0.22872	-3.758148
CLASP1	0.2373749	8.5018217	2.4864146	0.0340756	0.22876	-3.758776
RINL	0.3704429	8.3564353	2.4861198	0.0340922	0.22877	-3.759234
HHLA3	0.1477081	7.0860596	2.4850374	0.0341534	0.22908	-3.760914
LENG8	-0.17456	7.0515488	-2.484515	0.034183	0.22917	-3.761725
PSAT1	-0.179583	11.223674	-2.484146	0.0342039	0.2292	-3.762298
PLEKHF1	-0.210228	7.6384753	-2.483276	0.0342532	0.22943	-3.763648
TJP2	0.1722856	7.7760893	2.4825919	0.034292	0.22958	-3.76471
LINC00200	0.1538084	7.3184197	2.4823193	0.0343075	0.22958	-3.765133
JAK2	0.1780271	7.234478	2.4816039	0.0343482	0.22962	-3.766244
USP24	0.2319699	9.1355011	2.4815869	0.0343491	0.22962	-3.76627
PLBD1	0.2277365	6.9531719	2.4814014	0.0343597	0.22962	-3.766558
LOC401472	0.1713188	7.0820916	2.4804932	0.0344114	0.22986	-3.767967
GRM8	-0.184928	6.944861	-2.479588	0.034463	0.23003	-3.769372
OTUD3	0.2051715	7.2080861	2.4793435	0.034477	0.23003	-3.769752
TNKS	0.2194101	7.0225195	2.4792157	0.0344843	0.23003	-3.76995
SNORA79	-0.370833	7.7738089	-2.478076	0.0345495	0.23005	-3.771719
MFSD4A	0.1831648	6.8876384	2.4777924	0.0345657	0.23005	-3.772158
FLNB	0.2625027	9.7118708	2.4777775	0.0345666	0.23005	-3.772182
SVBP	0.1520208	9.6299023	2.4777571	0.0345677	0.23005	-3.772213
UGT1A6	0.1817339	7.0685017	2.4777085	0.0345705	0.23005	-3.772289
HIST1H3J	-0.244564	7.3305488	-2.477494	0.0345828	0.23005	-3.772622
ACADM	0.2354846	11.009392	2.4767366	0.0346262	0.23019	-3.773797
SNORA38	0.2204903	7.0660788	2.4764209	0.0346443	0.23019	-3.774287
DPP6	-0.19483	6.8921966	-2.476321	0.03465	0.23019	-3.774441
ST13P4	-0.208225	8.8881541	-2.475282	0.0347097	0.23048	-3.776054
C2orf16	-0.223548	6.9272974	-2.474789	0.0347381	0.23055	-3.776819
ISG20	-0.229985	11.513958	-2.473387	0.0348188	0.23055	-3.778994
CREM	-0.222917	7.0250723	-2.473246	0.034827	0.23055	-3.779213

NRK	-0.185466	7.2998552	-2.472746	0.0348558	0.23055	-3.779988
CC2D1B	-0.162457	7.1415608	-2.472733	0.0348566	0.23055	-3.780008
NME6	0.1606347	8.0257335	2.4723125	0.0348808	0.23055	-3.78066
BRPF3	0.1478843	8.76403	2.4715124	0.0349271	0.23055	-3.781901
MCCC2	0.19343	8.066843	2.4714813	0.0349289	0.23055	-3.78195
HACL1	-0.260045	10.430907	-2.471481	0.0349289	0.23055	-3.78195
CES4A	-0.184504	7.4267225	-2.471424	0.0349322	0.23055	-3.782039
ANXA11	-0.154054	7.5856634	-2.471036	0.0349547	0.23055	-3.782641
PRKCZ	-0.154384	8.0365061	-2.470723	0.0349728	0.23055	-3.783126
SELL	0.1865296	7.738172	2.4705956	0.0349802	0.23055	-3.783323
CDC42	-0.213426	8.6153728	-2.470509	0.0349852	0.23055	-3.783458
LINC00426	-0.191567	7.5757722	-2.470307	0.0349969	0.23055	-3.783771
HLA-B	0.4886516	11.76643	2.4700022	0.0350146	0.23055	-3.784244
CXorf40B	-0.16356	7.9139731	-2.469893	0.0350209	0.23055	-3.784414
ATP5J	0.3647577	12.263839	2.4698772	0.0350218	0.23055	-3.784438
CCDC74B	-0.206253	7.9185776	-2.469046	0.0350701	0.23055	-3.785727
CXCL8	0.202679	7.2694652	2.4689921	0.0350732	0.23055	-3.78581
KATNBL1	-0.213771	7.3843587	-2.468931	0.0350767	0.23055	-3.785905
SLC23A3	-0.192957	7.1555421	-2.468689	0.0350908	0.23055	-3.786281
TMED10	0.2472027	9.4809839	2.4685882	0.0350966	0.23055	-3.786437
PARP8	-0.207603	9.0493554	-2.468522	0.0351005	0.23055	-3.786539
STAG3L1	-0.165706	7.7758978	-2.468095	0.0351253	0.23061	-3.787201
DLGAP1-AS1	-0.178516	7.0229612	-2.467255	0.0351742	0.2307	-3.788504
PES1	-0.356122	9.5466597	-2.467056	0.0351858	0.2307	-3.788813
ARCN1	0.3224928	10.245348	2.4670445	0.0351865	0.2307	-3.78883
LINC01018	-0.199407	9.9788333	-2.465133	0.0352981	0.23133	-3.791794
MPRIP	0.1572244	7.8437458	2.4643403	0.0353444	0.23149	-3.793023
SYTL1	-0.164222	7.2570514	-2.46417	0.0353544	0.23149	-3.793287
N4BP2L1	-0.168062	7.1530353	-2.461982	0.0354827	0.23208	-3.79668
SNW1	-0.195854	8.7961011	-2.461779	0.0354946	0.23208	-3.796994
TACC1	0.2879321	10.410204	2.4616539	0.035502	0.23208	-3.797188
CCDC102A	-0.21341	7.8590737	-2.461546	0.0355084	0.23208	-3.797356
GATAD2A	0.2307201	11.273021	2.4605701	0.0355658	0.23229	-3.798868
DNAJC3	0.1761817	7.3236081	2.4604631	0.0355721	0.23229	-3.799034
ZNF302	-0.259584	8.1802736	-2.459168	0.0356484	0.23269	-3.801041
RPL7P9	-0.273986	9.7951686	-2.457779	0.0357305	0.23312	-3.803193
MIR223	-0.189735	6.843703	-2.456273	0.0358198	0.2336	-3.805528
LOC729603	-0.363975	12.498541	-2.455618	0.0358586	0.2337	-3.806542
PDE5A	-0.185571	6.9922873	-2.455461	0.0358679	0.2337	-3.806785
KIZ	-0.226478	7.0814412	-2.455186	0.0358843	0.2337	-3.807211
EIF2A	0.1919357	11.031678	2.4546629	0.0359154	0.23378	-3.808022
SLCO4A1	0.1976842	7.7173204	2.4544556	0.0359277	0.23378	-3.808343
SERP1	-0.243205	9.7463876	-2.453794	0.0359671	0.23393	-3.809368
PODXL	0.2295241	8.2460622	2.453318	0.0359955	0.23401	-3.810106
RAB30	-0.161561	7.9209908	-2.452252	0.0360591	0.23426	-3.811758

SPATA5L1	0.2305493	9.2013525	2.4521267	0.0360665	0.23426	-3.811951
PRCC	0.1610121	8.0183775	2.451113	0.0361271	0.23447	-3.813522
PGAM1	0.2742109	11.259037	2.4510576	0.0361304	0.23447	-3.813607
FTH1P3	-0.344869	8.9131505	-2.450768	0.0361478	0.23448	-3.814056
GALNT14	-0.215691	7.6013211	-2.450235	0.0361797	0.2345	-3.814882
KRTAP10-11	0.2254882	7.6089682	2.4500333	0.0361918	0.2345	-3.815194
SCLY	0.1683915	7.4154572	2.4496797	0.036213	0.2345	-3.815742
PDE4C	-0.27987	12.175931	-2.449639	0.0362154	0.2345	-3.815805
FAM91A1	0.1603336	7.9217361	2.4491354	0.0362456	0.23458	-3.816585
LOC553137	-0.160874	6.9679497	-2.448481	0.0362849	0.23458	-3.817598
CNFN	-0.20981	7.0146891	-2.448254	0.0362985	0.23458	-3.81795
SLC1A3	-0.223739	7.0378684	-2.448163	0.036304	0.23458	-3.818091
SNORA51	-0.158744	6.869981	-2.448103	0.0363076	0.23458	-3.818184
LINC00160	-0.174331	6.9121541	-2.446916	0.0363791	0.23463	-3.820022
LRRC71	-0.185145	6.9215738	-2.446853	0.0363828	0.23463	-3.820119
MTPAP	0.2009965	7.9758979	2.4465759	0.0363995	0.23463	-3.820549
FARS2	-0.208633	9.0801028	-2.446555	0.0364008	0.23463	-3.820581
CPNE5	0.2253797	7.468814	2.4464422	0.0364076	0.23463	-3.820756
DEFB132	-0.207497	6.8184795	-2.446366	0.0364122	0.23463	-3.820873
ANXA2P1	-0.161262	7.2907934	-2.445267	0.0364785	0.23495	-3.822575
7-Mar	0.3364288	10.275347	2.4448529	0.0365035	0.23499	-3.823217
KMT2A	0.2228062	7.3901698	2.4444778	0.0365262	0.23499	-3.823798
TET2	-0.160508	6.7834799	-2.444366	0.036533	0.23499	-3.823971
AP3S2	-0.186468	7.7272113	-2.443797	0.0365674	0.23511	-3.824852
PPAN-P2RY1	-0.19831	7.2474284	-2.443392	0.0365919	0.23516	-3.825479
MIR342	0.2045191	7.0863277	2.4429659	0.0366178	0.23523	-3.826138
COQ8B	0.2025634	7.7850852	2.4426797	0.0366351	0.23524	-3.826581
NFKBIE	-0.178434	10.363785	-2.441946	0.0366796	0.23527	-3.827717
ZC2HC1C	-0.183618	7.0243756	-2.441921	0.0366811	0.23527	-3.827756
PPP1R27	0.1789046	6.8919016	2.4416589	0.0366971	0.23527	-3.828162
ICOSLG	0.2564834	7.9361729	2.4412116	0.0367243	0.23527	-3.828854
SKI	0.2124837	7.2928663	2.4407125	0.0367546	0.23527	-3.829627
FAM50A	-0.229439	11.61392	-2.440529	0.0367658	0.23527	-3.82991
ELOVL1	0.1972256	8.302491	2.4404764	0.036769	0.23527	-3.829992
BCL9	0.167196	8.1317669	2.4404616	0.0367699	0.23527	-3.830015
RNPEP	-0.176377	8.9970114	-2.43999	0.0367986	0.23535	-3.830745
VDAC2	-0.207625	7.5771596	-2.439525	0.0368269	0.23537	-3.831464
SLC4A2	0.193972	7.5735072	2.4394109	0.0368339	0.23537	-3.831641
COMMD3	-0.191188	11.487341	-2.438988	0.0368597	0.23543	-3.832297
SLC4A5	-0.162982	7.676404	-2.437344	0.0369601	0.23597	-3.83484
CTCF	0.2759511	8.7855419	2.4363074	0.0370236	0.23621	-3.836444
WBP1	-0.184749	7.9831966	-2.436202	0.0370301	0.23621	-3.836608
CLHC1	-0.239716	7.9296056	-2.433566	0.0371921	0.23714	-3.840687
POLR3G	0.1733635	8.5047201	2.432992	0.0372274	0.23719	-3.841574
DUOXA1	-0.147871	6.8101427	-2.432757	0.0372419	0.23719	-3.841938

DTNA	-0.146665	7.0014156	-2.432642	0.037249	0.23719	-3.842115
EHD4	0.3679171	8.9026301	2.4321872	0.037277	0.23727	-3.842819
CLN6	0.2397025	7.5761186	2.4315085	0.0373189	0.23743	-3.843869
PRPF38B	0.1930272	7.85206	2.43031	0.0373931	0.2378	-3.845723
LOC400707	0.202448	6.9833179	2.4294877	0.037444	0.23802	-3.846995
NAA60	0.198588	7.9649867	2.429189	0.0374625	0.23803	-3.847457
SLC2A3	0.1754298	8.9006604	2.4287626	0.037489	0.2381	-3.848117
IBSP	-0.187629	6.9882257	-2.428474	0.0375068	0.23811	-3.848562
ANXA8L1	-0.191287	6.9325362	-2.427251	0.0375829	0.23837	-3.850454
ITGAL	0.171964	7.4975068	2.4268045	0.0376107	0.23837	-3.851145
SMIM13	0.2419498	7.8778636	2.4268033	0.0376107	0.23837	-3.851147
GCN1	0.2211678	10.925283	2.4265966	0.0376236	0.23837	-3.851466
EPS15L1	0.2255348	7.570823	2.4264198	0.0376346	0.23837	-3.85174
VRK1	-0.358063	9.4473659	-2.42614	0.0376521	0.23837	-3.852173
ALG14	-0.150172	7.9030798	-2.425982	0.0376619	0.23837	-3.852417
WAPL	0.2359047	8.042925	2.4255878	0.0376865	0.23842	-3.853026
TPM4	0.3004358	8.1388502	2.4248453	0.0377328	0.23843	-3.854174
ANKRD17	0.1893529	8.4101978	2.4246909	0.0377425	0.23843	-3.854413
TXNRD1	0.1688712	9.1523987	2.4246724	0.0377436	0.23843	-3.854442
PNPLA2	0.2882283	7.7607075	2.424424	0.0377592	0.23843	-3.854826
HP1BP3	0.1949386	7.683681	2.4242451	0.0377703	0.23843	-3.855102
SPNS1	-0.318341	9.0359588	-2.42333	0.0378276	0.23868	-3.856518
NFKBIZ	-0.181019	8.3254012	-2.422805	0.0378605	0.23868	-3.857329
SLC25A22	-0.341204	9.2387614	-2.422584	0.0378743	0.23868	-3.85767
SPATA7	-0.154252	7.3438597	-2.422568	0.0378754	0.23868	-3.857696
GFM2	-0.170428	7.671243	-2.422193	0.0378988	0.23873	-3.858274
SNORD89	-0.167572	8.0924645	-2.421898	0.0379173	0.23874	-3.858731
AASDH	-0.333079	8.2273334	-2.421547	0.0379394	0.23878	-3.859274
LYN	0.4471942	11.125768	2.4212613	0.0379573	0.23879	-3.859715
XAB2	0.3251178	9.129254	2.4205075	0.0380047	0.23881	-3.86088
KBTBD3	-0.172172	7.4585472	-2.42032	0.0380165	0.23881	-3.86117
NSMCE4A	-0.254139	11.264685	-2.420178	0.0380255	0.23881	-3.86139
DDI2	0.1935454	7.1072157	2.4201582	0.0380267	0.23881	-3.86142
DENND1B	0.1658864	8.2253439	2.418295	0.0381441	0.23943	-3.8643
RFLNA	0.1926223	7.078531	2.4180873	0.0381573	0.23943	-3.864621
ECHS1	-0.203544	10.616908	-2.417826	0.0381738	0.23943	-3.865025
SP4	0.1666395	8.1084098	2.4158425	0.0382993	0.23992	-3.86809
UGT8	0.2245771	7.9537024	2.4158098	0.0383014	0.23992	-3.86814
SARS	-0.181068	9.9329002	-2.415797	0.0383022	0.23992	-3.86816
PCMTD1	-0.188557	8.590285	-2.414181	0.0384048	0.24046	-3.870657
SETD9	-0.14918	8.0375314	-2.413278	0.0384622	0.24071	-3.872052
UMPS	-0.217985	7.4057568	-2.41305	0.0384767	0.24071	-3.872405
LOC729324	-0.177577	10.303821	-2.41226	0.0385271	0.24092	-3.873625
PAICS	0.1901036	10.877789	2.4104048	0.0386455	0.24154	-3.87649
IKBKG	-0.182116	9.0061217	-2.409303	0.038716	0.24154	-3.878192

PHLPP2	0.2301575	7.812572	2.4092355	0.0387203	0.24154	-3.878296
ZNF496	-0.163594	6.9715747	-2.408919	0.0387406	0.24154	-3.878785
SIRT4	-0.234494	7.2537374	-2.408724	0.0387531	0.24154	-3.879085
N6AMT1	-0.167266	7.1294751	-2.408633	0.038759	0.24154	-3.879226
DLGAP4	0.1569936	7.1942009	2.4084885	0.0387682	0.24154	-3.87945
ZNF658	-0.23071	6.9922381	-2.408431	0.0387719	0.24154	-3.879539
RPS6KA4	0.1897181	8.4197061	2.4083859	0.0387748	0.24154	-3.879608
SLC25A44	-0.324525	9.3385267	-2.4073	0.0388445	0.24185	-3.881284
AAAS	-0.183946	7.5926322	-2.407009	0.0388633	0.24185	-3.881734
MECP2	0.1925605	7.1359777	2.4068366	0.0388744	0.24185	-3.882001
GORASP2	-0.286024	9.8964403	-2.406574	0.0388913	0.24185	-3.882406
C17orf47	0.1920856	7.1096095	2.4054612	0.0389629	0.24219	-3.884124
PVRIG	0.1548659	9.7144902	2.4050585	0.0389889	0.24222	-3.884746
TEX30	-0.212751	8.8038478	-2.404876	0.0390007	0.24222	-3.885028
LEPROTL1	-0.217034	8.6588112	-2.404334	0.0390357	0.24228	-3.885865
RRAGA	0.1655829	10.350522	2.4042223	0.0390429	0.24228	-3.886037
SDHAF2	-0.264341	10.504288	-2.403214	0.0391081	0.24249	-3.887594
ZBTB18	0.1852946	6.8872894	2.4029803	0.0391232	0.24249	-3.887954
MAP4K1	0.3716072	10.530478	2.4025205	0.039153	0.24249	-3.888664
SH2B3	0.3688493	9.632426	2.4023793	0.0391621	0.24249	-3.888882
DHX30	0.2892048	9.0752362	2.4023761	0.0391623	0.24249	-3.888887
IFIH1	-0.180104	9.1208093	-2.402149	0.0391771	0.24249	-3.889238
EYA1	-0.21063	6.8924015	-2.401063	0.0392475	0.24274	-3.890914
ACTA2	-0.265839	8.9195985	-2.401007	0.0392511	0.24274	-3.891
BAHCC1	0.1872358	6.9820739	2.4004305	0.0392886	0.24287	-3.89189
SSR3	-0.187589	7.2182418	-2.397756	0.0394628	0.24378	-3.896017
CCDC47	0.2195694	8.798727	2.3975655	0.0394753	0.24378	-3.896311
ELOC	0.1955927	11.387363	2.397231	0.0394971	0.24378	-3.896827
GNAS-AS1	-0.156913	7.0556504	-2.396981	0.0395135	0.24378	-3.897213
RPS26P47	0.277254	12.741858	2.3967765	0.0395269	0.24378	-3.897529
FECH	-0.185031	7.642194	-2.396643	0.0395356	0.24378	-3.897735
HNRNPA2B1	-0.244314	9.9977441	-2.396069	0.0395732	0.24391	-3.898621
ANAPC4	-0.260269	9.6196496	-2.39573	0.0395954	0.24394	-3.899144
MYADM	0.1704466	7.6948288	2.3952674	0.0396257	0.24396	-3.899857
CD2AP	0.2682964	8.2277257	2.3946962	0.0396631	0.24396	-3.900738
C17orf49	0.2611123	10.044711	2.3946821	0.0396641	0.24396	-3.90076
PPIA	-0.205377	8.423153	-2.394663	0.0396653	0.24396	-3.900789
ZNF143	0.1631796	8.4369456	2.3943878	0.0396834	0.24397	-3.901214
IGHMBP2	-0.157304	7.0300463	-2.393368	0.0397504	0.24423	-3.902788
SUSD3	-0.17796	9.8795867	-2.393229	0.0397595	0.24423	-3.903001
ARL16	-0.183802	9.7407891	-2.392209	0.0398267	0.24431	-3.904575
PNPLA7	-0.165479	7.5162008	-2.392107	0.0398334	0.24431	-3.904732
OS9	0.2518441	7.581224	2.3919885	0.0398412	0.24431	-3.904915
PYCR3	0.2098599	7.2811804	2.3917684	0.0398557	0.24431	-3.905254
TOMM22	-0.204599	11.428776	-2.391711	0.0398595	0.24431	-3.905343

SNORD73A	-0.21065	7.327994	-2.391506	0.039873	0.24431	-3.905659
MIR185	-0.220398	7.0004017	-2.39063	0.0399309	0.24449	-3.907011
SPAG1	-0.154812	6.9678832	-2.390541	0.0399367	0.24449	-3.907147
ZNF746	0.2231121	8.988935	2.3894301	0.0400102	0.24466	-3.90886
RNF144B	-0.194068	10.37479	-2.389234	0.0400232	0.24466	-3.909163
HSP90AB1	0.3757738	12.326843	2.3891574	0.0400282	0.24466	-3.909281
SNAPC5	-0.255998	7.5270363	-2.389129	0.0400301	0.24466	-3.909325
ARL4D	-0.164864	7.0781342	-2.388198	0.0400918	0.24485	-3.91076
MIR488	-0.176796	7.4574837	-2.388155	0.0400947	0.24485	-3.910827
LRRC57	-0.189187	7.8751907	-2.387367	0.0401469	0.24493	-3.912041
ZBTB48	-0.231958	9.5281929	-2.387128	0.0401628	0.24493	-3.91241
PMAIP1	-0.266062	8.5854216	-2.387077	0.0401662	0.24493	-3.912488
AMDHD2	0.1847216	7.5646229	2.3867204	0.0401899	0.24493	-3.913038
SCRN1	0.2565578	8.3168507	2.386092	0.0402317	0.24493	-3.914007
SYN1	-0.179006	7.0326817	-2.386029	0.0402359	0.24493	-3.914104
GTF2H5	0.1746879	11.095225	2.3859161	0.0402434	0.24493	-3.914278
CXADRP3	0.1901646	7.0003848	2.3857594	0.0402539	0.24493	-3.91452
USP22	0.2480898	7.9952906	2.3856651	0.0402601	0.24493	-3.914665
SDHAF4	-0.216203	8.441497	-2.384901	0.0403111	0.24514	-3.915844
ANAPC10	-0.221028	9.7123586	-2.384415	0.0403435	0.24524	-3.916592
LSM7	0.2459705	11.64593	2.3831088	0.0404307	0.24559	-3.918606
RNF213	-0.171219	7.3759095	-2.383048	0.0404348	0.24559	-3.918699
TSHZ1	0.195474	8.0182185	2.3824357	0.0404758	0.24573	-3.919643
MED23	-0.147388	7.7431618	-2.380827	0.0405836	0.24619	-3.922123
EDC3	0.2033104	7.7582119	2.3808124	0.0405846	0.24619	-3.922145
HCG4	0.1570896	8.718087	2.380339	0.0406164	0.24621	-3.922874
ZC3H3	0.2348664	8.8402565	2.3802386	0.0406231	0.24621	-3.923029
ANKFY1	-0.156806	8.0055704	-2.380001	0.0406391	0.24621	-3.923395
NUTM2A-AS	-0.173407	7.0477728	-2.379305	0.0406859	0.24639	-3.924467
TRPC4AP	0.2376318	8.9734131	2.3787007	0.0407266	0.24654	-3.925398
NKAIN2	-0.156181	6.8267144	-2.377901	0.0407805	0.24668	-3.92663
TRIM27	-0.141504	8.1093989	-2.377845	0.0407843	0.24668	-3.926717
CNTN4	-0.158236	6.8043293	-2.377341	0.0408182	0.24679	-3.927492
SNORD83B	-0.211795	8.3058723	-2.376533	0.0408728	0.24692	-3.928737
TM9SF4	0.2252363	9.4101059	2.3765175	0.0408739	0.24692	-3.928762
CTDP1	0.1613476	7.5578193	2.3757531	0.0409256	0.24705	-3.929939
IWS1	0.1765483	9.2062432	2.3757067	0.0409287	0.24705	-3.930011
STUM	0.2702162	6.9658859	2.374202	0.0410307	0.24756	-3.932328
ITGA4	0.178544	8.1868843	2.372489	0.0411471	0.24816	-3.934966
TMEM175	-0.261678	8.0898992	-2.370904	0.0412551	0.24859	-3.937406
THOC1	-0.263019	9.3102543	-2.370776	0.0412638	0.24859	-3.937603
ACSL3	0.1658437	8.2709177	2.3706971	0.0412692	0.24859	-3.937725
CSRP1	0.3017632	9.8446055	2.3704275	0.0412876	0.24859	-3.93814
HARBI1	-0.160858	6.9526103	-2.369634	0.0413418	0.24882	-3.939362
HMGN4	-0.163349	10.845956	-2.368322	0.0414316	0.24897	-3.941382

SMIM12	-0.268661	8.1826302	-2.368301	0.0414331	0.24897	-3.941414
NCOR2	0.4201569	9.5830481	2.3680967	0.0414471	0.24897	-3.941729
DSN1	0.1815943	7.9584824	2.3680261	0.0414519	0.24897	-3.941837
VIM	0.2176341	10.46245	2.3680253	0.0414519	0.24897	-3.941838
SLC50A1	-0.208711	9.3683769	-2.366302	0.0415703	0.24948	-3.944492
EMC8	-0.149962	9.0302835	-2.366293	0.0415709	0.24948	-3.944505
KMT2C	0.151303	7.2077762	2.3660376	0.0415884	0.24948	-3.944898
ARRDC1-AS1	-0.267609	8.0404429	-2.365513	0.0416245	0.24959	-3.945706
IGF2-AS	0.223917	7.0490779	2.3651039	0.0416527	0.24961	-3.946335
C21orf91	-0.166974	7.7427636	-2.364971	0.0416618	0.24961	-3.946539
LINC02209	0.2224811	7.0675022	2.3639392	0.0417329	0.24994	-3.948127
AAMDC	-0.146034	7.7694022	-2.36296	0.0418006	0.25024	-3.949634
ZNF217	0.2193141	8.9328695	2.3624377	0.0418367	0.25024	-3.950437
EGLN1	0.1785462	7.7116955	2.3622385	0.0418505	0.25024	-3.950744
FRG1HP	-0.157649	7.3525378	-2.3622	0.0418531	0.25024	-3.950803
DVL3	0.2329797	8.0515582	2.361771	0.0418828	0.25031	-3.951463
ZBTB42	-0.218768	7.3811377	-2.361302	0.0419153	0.25031	-3.952185
PRG2	0.1809246	7.2167582	2.3612212	0.0419209	0.25031	-3.952309
CLUH	0.3509431	9.0829171	2.3610568	0.0419323	0.25031	-3.952562
UBE2G2	0.165326	8.8930493	2.3607768	0.0419517	0.25032	-3.952993
LEXM	-0.211679	7.1150373	-2.360256	0.0419878	0.2504	-3.953794
TERF2	0.2176266	8.9518775	2.3600129	0.0420047	0.2504	-3.954168
TMPRSS3	0.1737659	6.9305531	2.3597215	0.042025	0.2504	-3.954616
THOP1	0.3491324	9.924473	2.3589457	0.0420789	0.2504	-3.955809
PPP4C	-0.158086	10.389266	-2.358845	0.0420859	0.2504	-3.955964
CDC42EP2	-0.16826	7.4519711	-2.358522	0.0421084	0.2504	-3.956461
RPE	0.2104498	9.5467853	2.3584028	0.0421167	0.2504	-3.956644
R3HDM2	0.1955028	7.2955445	2.3583727	0.0421188	0.2504	-3.956691
RRP12	0.2962105	8.980694	2.3583612	0.0421196	0.2504	-3.956708
ICE1	-0.223861	7.8923827	-2.357615	0.0421716	0.25061	-3.957856
TLN2	0.1846169	7.3975942	2.35685	0.0422249	0.2508	-3.959032
SAV1	-0.193953	7.4717443	-2.356651	0.0422388	0.2508	-3.959339
KLRA1P	-0.203584	7.3131062	-2.355994	0.0422847	0.25089	-3.960348
LOC441666	-0.179258	6.9412283	-2.355956	0.0422874	0.25089	-3.960408
ANKRD33	-0.202146	7.3997069	-2.354956	0.0423573	0.25114	-3.961944
SOBP	-0.150736	7.9137864	-2.354696	0.0423755	0.25114	-3.962344
SIPA1L1	0.214561	7.2466309	2.3540989	0.0424174	0.25114	-3.963263
RINT1	-0.163416	8.1434798	-2.354083	0.0424185	0.25114	-3.963287
TSN	-0.341507	7.1280023	-2.353682	0.0424467	0.25114	-3.963904
MAPK1IP1L	0.1563844	7.9989263	2.3536579	0.0424483	0.25114	-3.963941
BNIPL	-0.169237	6.9826579	-2.353632	0.0424501	0.25114	-3.963981
DECR1	-0.331222	10.661524	-2.352477	0.0425313	0.25136	-3.965756
UQCRBP1	-0.162328	12.888635	-2.352377	0.0425383	0.25136	-3.965909
ACOT9	-0.200796	8.6712579	-2.352375	0.0425385	0.25136	-3.965914
CHST2	-0.17776	7.405516	-2.352119	0.0425564	0.25136	-3.966306

SLC25A26	-0.161069	7.8758368	-2.351085	0.0426292	0.25169	-3.967896
C1orf53	-0.206013	8.6512003	-2.348686	0.0427986	0.25259	-3.971583
SRRM2-AS1	-0.151599	6.7741738	-2.348001	0.0428471	0.25273	-3.972635
BPESC1	0.1409627	6.8958329	2.3478436	0.0428582	0.25273	-3.972877
PRICKLE2	0.1623744	7.1187141	2.3473697	0.0428918	0.25283	-3.973606
ADORA2A	0.3066758	8.7823984	2.3469634	0.0429206	0.2529	-3.97423
AP1S2	-0.217333	9.2716819	-2.346612	0.0429456	0.25294	-3.97477
NABP1	0.2142142	9.8347589	2.34531	0.0430381	0.25327	-3.97677
EMC9	-0.339731	8.5086116	-2.345107	0.0430525	0.25327	-3.977082
PPP1R16B	0.2789414	9.51187	2.3451042	0.0430527	0.25327	-3.977086
ST3GAL6	-0.290784	7.331338	-2.344411	0.0431021	0.25335	-3.978152
EYA3	0.1767252	8.3271794	2.3444088	0.0431022	0.25335	-3.978155
PROX2	0.1566783	6.9634557	2.3437067	0.0431522	0.2535	-3.979233
MAP3K3	0.1583032	7.4046481	2.3433661	0.0431765	0.2535	-3.979756
YEATS2	0.2329018	9.5880063	2.3432164	0.0431872	0.2535	-3.979986
THOC2	0.2406897	8.3190102	2.3430623	0.0431982	0.2535	-3.980223
FAM81B	-0.150284	6.839523	-2.342611	0.0432304	0.2535	-3.980916
VCPIP1	0.2216108	8.2967624	2.3426041	0.0432309	0.2535	-3.980927
TMEM79	-0.208972	8.029812	-2.341486	0.0433109	0.25377	-3.982644
DNAJC27	-0.178282	8.0778893	-2.341465	0.0433124	0.25377	-3.982676
PRDX1	0.154864	13.583393	2.3405329	0.0433792	0.25399	-3.984108
TXNDC11	0.1871718	8.2489203	2.3404501	0.0433851	0.25399	-3.984235
PIGW	0.1815221	8.3733198	2.3398218	0.0434302	0.25416	-3.9852
GIGYF2	0.1596314	7.5938108	2.3392624	0.0434703	0.25429	-3.986058
FOLR2	-0.173043	7.2317908	-2.33862	0.0435165	0.25446	-3.987045
ACSF3	-0.156726	6.8886984	-2.337501	0.043597	0.25483	-3.988763
ATF1	-0.219303	7.4500133	-2.337131	0.0436237	0.25488	-3.98933
DPM1	0.1674513	10.849592	2.3360004	0.0437053	0.25525	-3.991066
NCAPD3	0.1785607	8.457027	2.3352922	0.0437564	0.25539	-3.992153
WDFY4	0.2540211	8.6171862	2.3351904	0.0437638	0.25539	-3.99231
DPY19L4	-0.241974	7.8760498	-2.334886	0.0437858	0.25542	-3.992777
PACSIN1	-0.26614	7.2709461	-2.333763	0.0438671	0.25579	-3.994501
LIME1	-0.310688	9.2336775	-2.333095	0.0439156	0.25589	-3.995526
LENG1	0.1567894	7.2167156	2.3330447	0.0439192	0.25589	-3.995603
AHCYL1	0.3170913	10.258163	2.3325422	0.0439557	0.25591	-3.996374
TM9SF2	-0.245965	10.040003	-2.332474	0.0439606	0.25591	-3.996479
HIST1H2BF	-0.234292	7.0359506	-2.332275	0.0439751	0.25591	-3.996784
SPPL2A	0.1531821	9.1952372	2.331338	0.0440432	0.25612	-3.998222
ITGB1	0.1639092	8.8844358	2.3312833	0.0440472	0.25612	-3.998305
BRAT1	-0.197712	10.552193	-2.330669	0.0440919	0.25628	-3.999249
NDUFA11	0.2444298	12.008675	2.3300822	0.0441347	0.25643	-4.000148
GRAMD3	-0.142756	6.872214	-2.32937	0.0441866	0.25663	-4.001241
EID2	0.1513714	8.5356101	2.328466	0.0442527	0.25691	-4.002628
PCF11	0.2337783	8.4797092	2.3270195	0.0443585	0.25713	-4.004846
MLH1	0.1675238	10.045457	2.3269817	0.0443613	0.25713	-4.004904

C11orf84	0.2310152	7.3896496	2.3268074	0.0443741	0.25713	-4.005171
ZNF493	-0.193905	7.1862487	-2.326805	0.0443743	0.25713	-4.005176
PHACTR4	0.2364343	10.02885	2.326553	0.0443927	0.25713	-4.005562
KRTAP10-3	0.1540489	7.1671117	2.3263464	0.0444079	0.25713	-4.005879
RAD1	-0.154742	8.5278398	-2.325977	0.044435	0.25713	-4.006445
NEDD9	-0.181499	7.7132748	-2.325971	0.0444354	0.25713	-4.006454
RTCA	0.1732466	9.2591494	2.3252559	0.0444879	0.25713	-4.007551
C12orf57	-0.214226	9.4801261	-2.325064	0.044502	0.25713	-4.007845
SNAP23	-0.190456	8.5954232	-2.325019	0.0445053	0.25713	-4.007914
MIIP	0.3449913	8.366806	2.3246545	0.0445322	0.25713	-4.008473
COPS7A	0.1993442	10.936721	2.3246042	0.0445358	0.25713	-4.00855
ZC3H12A	0.1882162	7.6180127	2.3243847	0.044552	0.25713	-4.008887
DDX21	0.1894873	11.934585	2.3243153	0.0445571	0.25713	-4.008993
MED25	0.3802523	8.4816288	2.3241139	0.0445719	0.25713	-4.009302
LYPLA2	0.2629255	8.2926352	2.3225363	0.0446882	0.25769	-4.011721
SLAMF1	0.1634953	9.9901851	2.3222949	0.044706	0.2577	-4.012091
UBFD1	-0.234682	7.9108869	-2.321358	0.0447753	0.25799	-4.013527
GTF2A1	-0.212213	7.0182162	-2.320872	0.0448112	0.2581	-4.014271
PRR19	0.2312194	7.0093956	2.3204121	0.0448453	0.25811	-4.014977
PRMT7	0.1863525	7.6009659	2.3200687	0.0448707	0.25811	-4.015503
TMPRSS13	0.192697	7.0129391	2.3199275	0.0448812	0.25811	-4.01572
KHDRBS3	0.1804547	8.2155497	2.3198783	0.0448848	0.25811	-4.015795
MCMBP	-0.219862	7.9149211	-2.319041	0.0449469	0.25837	-4.017078
MELK	0.2016387	9.7786839	2.3177308	0.0450443	0.25867	-4.019086
AP3S1	0.1875882	9.855958	2.3176302	0.0450518	0.25867	-4.01924
DYRK1A	0.1946495	8.8852539	2.3176214	0.0450524	0.25867	-4.019254
AGFG2	0.2412227	7.2127793	2.3168241	0.0451118	0.25887	-4.020475
SHISA2	-0.174133	6.8759625	-2.316676	0.0451228	0.25887	-4.020702
SLU7	0.2093185	7.8989005	2.3162209	0.0451567	0.25896	-4.0214
CDK2	0.1621274	8.9302155	2.3158664	0.0451832	0.25901	-4.021943
SNORD18A	-0.210632	7.0425262	-2.315023	0.0452462	0.25927	-4.023235
LRP5L	-0.268483	7.7198711	-2.314674	0.0452723	0.25932	-4.02377
LMF2	0.1904318	7.8309433	2.3139414	0.045327	0.25952	-4.024892
ZNF407	0.1397503	7.411286	2.3137387	0.0453422	0.25952	-4.025202
RNF114	-0.162536	10.160083	-2.312876	0.0454069	0.25955	-4.026524
CXADR	0.1745001	7.7830323	2.3128351	0.0454099	0.25955	-4.026586
MRPL17	-0.32366	10.798071	-2.312741	0.045417	0.25955	-4.02673
GPN2	-0.146658	10.192317	-2.312575	0.0454294	0.25955	-4.026984
TMEM53	-0.182948	7.2421647	-2.312116	0.0454639	0.25955	-4.027688
ZNF831	0.1887231	7.2663495	2.3120229	0.0454709	0.25955	-4.02783
C3orf58	0.2034412	7.8933523	2.3120008	0.0454725	0.25955	-4.027864
GGTLC2	-0.172871	6.8391936	-2.311564	0.0455053	0.25955	-4.028533
STK3	-0.205474	7.8412155	-2.311527	0.0455081	0.25955	-4.028589
ATN1	0.2045187	7.3177205	2.3101969	0.0456082	0.26002	-4.030627
C14orf80	-0.223209	9.1585994	-2.30942	0.0456667	0.26006	-4.031815

GLCCI1	0.2181658	7.471007	2.3093228	0.045674	0.26006	-4.031965
SLCO1C1	0.1527668	6.9311408	2.3093211	0.0456741	0.26006	-4.031967
TRIM73	-0.158475	7.1609762	-2.308949	0.0457022	0.26006	-4.032538
BRPF1	0.2248845	9.2057206	2.3086436	0.0457253	0.26006	-4.033005
PTOV1	0.3130349	10.242032	2.3084587	0.0457392	0.26006	-4.033288
ZNF140	-0.193846	7.0649174	-2.308455	0.0457395	0.26006	-4.033294
POU2AF1	0.2779769	10.586142	2.3079241	0.0457796	0.26016	-4.034106
BLOC1S4	-0.298824	9.2485616	-2.307749	0.0457928	0.26016	-4.034374
G6PC3	0.2346519	8.5680815	2.3067228	0.0458705	0.2605	-4.035945
C8orf37	-0.198135	9.1428616	-2.305798	0.0459406	0.26073	-4.037361
BRD9	-0.200084	10.221542	-2.305678	0.0459497	0.26073	-4.037544
CNBP	-0.171569	9.3919668	-2.305083	0.0459949	0.26073	-4.038456
TBK1	0.209969	9.3323526	2.3045884	0.0460324	0.26073	-4.039212
LRRC37B	-0.272703	8.6328474	-2.304548	0.0460355	0.26073	-4.039274
ATPAF2	-0.179796	8.0960654	-2.304541	0.046036	0.26073	-4.039284
PDE6D	-0.210516	8.8420122	-2.304536	0.0460363	0.26073	-4.039292
SGTA	0.2986327	8.1318635	2.3034163	0.0461216	0.26077	-4.041006
UAP1	-0.323898	9.7937216	-2.303398	0.0461229	0.26077	-4.041033
KIF23	0.1445769	8.1475849	2.303385	0.0461239	0.26077	-4.041054
NUP88	-0.166945	11.052901	-2.303286	0.0461314	0.26077	-4.041205
SPIB	0.3920133	10.052793	2.3030522	0.0461493	0.26077	-4.041563
TCF3	0.3831524	9.830466	2.3028234	0.0461667	0.26077	-4.041913
SLC37A4	-0.233773	10.314262	-2.302661	0.0461791	0.26077	-4.042161
DHRS7	0.1988914	11.01549	2.3025705	0.046186	0.26077	-4.0423
MDH1	0.1972206	12.448449	2.3023234	0.0462048	0.26077	-4.042678
STAMBPL1	0.1816639	10.290693	2.3016505	0.0462562	0.26092	-4.043707
SYT17	-0.140404	6.7563567	-2.301059	0.0463013	0.26092	-4.044612
FAM104B	-0.250337	7.7597082	-2.300979	0.0463075	0.26092	-4.044735
KLK10	-0.185896	7.0631204	-2.300954	0.0463094	0.26092	-4.044773
PDXP	0.1819771	11.424231	2.3007172	0.0463275	0.26092	-4.045135
PIGB	-0.209276	8.8494085	-2.300582	0.0463379	0.26092	-4.045343
GPBP1	0.1787099	8.5305993	2.2998526	0.0463936	0.261	-4.046458
C3orf33	-0.177632	6.9878014	-2.29972	0.0464038	0.261	-4.046661
RAD50	0.2536161	8.3556984	2.2996864	0.0464064	0.261	-4.046712
GPR84	-0.175583	6.832549	-2.298753	0.0464779	0.2613	-4.04814
CLN5	-0.217073	7.6498322	-2.298091	0.0465287	0.26149	-4.049152
TMSB15B	-0.151013	7.5553449	-2.296522	0.0466494	0.26207	-4.051552
FTH1P12	-0.334896	10.868542	-2.295829	0.0467028	0.26223	-4.052612
DCP2	0.2810028	9.9089896	2.2956806	0.0467142	0.26223	-4.052838
FBXO38	-0.196266	7.9461549	-2.295298	0.0467437	0.26229	-4.053424
TMEM263	-0.255195	7.0546089	-2.294268	0.0468232	0.26264	-4.054998
COX6B1	0.2528062	12.714067	2.2938694	0.046854	0.26271	-4.055608
LRRTM2	-0.16167	6.843949	-2.293573	0.046877	0.26274	-4.056061
MIR1914	0.1721209	6.9125472	2.2926591	0.0469477	0.26293	-4.057458
HLCS	0.1522024	7.4838564	2.2926554	0.046948	0.26293	-4.057463

LSP1	0.2478599	7.8839264	2.292197	0.0469835	0.26301	-4.058164
GPR18	0.1488798	7.0547861	2.2920098	0.046998	0.26301	-4.05845
MAP7D2	-0.303839	10.0723	-2.29171	0.0470213	0.26301	-4.058908
PPM1A	0.2048826	8.2758788	2.2915415	0.0470344	0.26301	-4.059166
MRPL45	-0.158428	9.9535308	-2.290908	0.0470835	0.26311	-4.060134
ING4	-0.196839	7.2160799	-2.290865	0.0470869	0.26311	-4.060199
ULK1	-0.203524	8.6951898	-2.29008	0.0471479	0.26335	-4.0614
IFT43	-0.180061	8.4402931	-2.289528	0.0471909	0.26349	-4.062243
RFC5	-0.168791	10.529229	-2.289067	0.0472268	0.26358	-4.062947
LUZP6	0.1737231	6.9774423	2.2888037	0.0472473	0.2636	-4.06335
GLMP	-0.264079	8.4721334	-2.287162	0.0473754	0.26405	-4.065858
SIAH2	0.1578245	8.1861977	2.2871119	0.0473794	0.26405	-4.065935
NCAPD2	0.3643135	10.167927	2.2870776	0.047382	0.26405	-4.065987
CFAP20	-0.178723	9.7754999	-2.286107	0.047458	0.26432	-4.06747
EPRS	0.3641908	11.75568	2.2857922	0.0474826	0.26432	-4.067951
FAM72B	0.2303354	8.1415844	2.2857498	0.047486	0.26432	-4.068015
6-Sep	0.2895275	8.7866117	2.2846089	0.0475754	0.26469	-4.069758
C9orf172	0.1804619	6.8172679	2.2843696	0.0475942	0.26469	-4.070123
SMC4	0.2100267	8.4340335	2.284225	0.0476056	0.26469	-4.070344
PGPEP1	-0.143129	6.7104459	-2.283759	0.0476421	0.26479	-4.071055
GUCY2C	-0.197225	6.9847982	-2.282566	0.047736	0.26515	-4.072878
NRXN2	0.2171056	7.0032192	2.2824824	0.0477426	0.26515	-4.073005
CFAP70	-0.156528	6.8507076	-2.281995	0.047781	0.26516	-4.07375
SEC22B	-0.269033	8.6971048	-2.281981	0.0477821	0.26516	-4.07377
MAPKAPK2	0.1979123	8.6374134	2.2814248	0.047826	0.26528	-4.07462
HSDL2	-0.157679	8.463899	-2.281258	0.0478392	0.26528	-4.074875
CCAR1	-0.233072	7.2285456	-2.280277	0.0479166	0.26553	-4.076372
UCP2	0.3972083	10.519994	2.2799905	0.0479393	0.26553	-4.07681
EAF1	-0.198599	8.3662431	-2.27999	0.0479393	0.26553	-4.076811
RIMBP3B	0.2128943	6.9405465	2.2795704	0.0479725	0.26559	-4.077451
WDR5	0.1561826	7.9340948	2.2793969	0.0479862	0.26559	-4.077716
SOS1	0.2036417	7.0978023	2.278271	0.0480754	0.26592	-4.079435
NR1H2	0.2587372	7.8775615	2.2779675	0.0480995	0.26592	-4.079898
PLEKHG3	0.15225	6.8237392	2.2777626	0.0481157	0.26592	-4.080211
GIT2	-0.170585	7.8691455	-2.277361	0.0481476	0.26592	-4.080824
ARFGEF3	0.1811112	6.9512333	2.2773434	0.048149	0.26592	-4.08085
REXO2	-0.180874	11.355752	-2.276868	0.0481868	0.26592	-4.081577
L3HYPDH	-0.199634	7.4449703	-2.276866	0.0481869	0.26592	-4.081578
LOC1002888	-0.169514	7.468664	-2.276802	0.048192	0.26592	-4.081676
ZCCHC6	0.1527332	7.6712922	2.2762625	0.0482349	0.26606	-4.0825
VPS33A	0.1747844	8.5676733	2.275686	0.0482808	0.26621	-4.08338
G6PD	0.1558767	8.7367492	2.2753662	0.0483063	0.26625	-4.083868
CORO1A	0.3274192	11.15363	2.2734384	0.0484601	0.26689	-4.086809
CLDN23	-0.217001	6.9011286	-2.27339	0.048464	0.26689	-4.086883
SETD4	-0.175788	7.4738495	-2.27282	0.0485096	0.26689	-4.087753

BCCIP	0.1940972	9.4334863	2.2727148	0.048518	0.26689	-4.087913
GTPBP4	0.2042919	12.04867	2.2726594	0.0485224	0.26689	-4.087997
CCDC74A	-0.164398	8.805004	-2.272543	0.0485317	0.26689	-4.088175
SPG11	0.172934	8.8922226	2.2722604	0.0485543	0.26691	-4.088606
UBE4A	-0.237622	8.8398878	-2.271812	0.0485903	0.26701	-4.08929
MRPL18	-0.15777	11.179718	-2.271548	0.0486114	0.26702	-4.089692
RNF111	0.1748827	7.0150649	2.2704953	0.0486959	0.26735	-4.091298
EHMT2	0.2177158	7.5513583	2.2702719	0.0487138	0.26735	-4.091639
DNAJB1	0.1700108	8.9866259	2.270133	0.048725	0.26735	-4.09185
AGPAT5	0.1747542	8.51659	2.2688776	0.0488259	0.26774	-4.093765
ZNF621	0.2371285	8.2651885	2.2687738	0.0488343	0.26774	-4.093923
VAMP8	-0.221521	11.778539	-2.267582	0.0489303	0.26817	-4.095739
C1orf106	0.2223583	7.0837488	2.2672421	0.0489578	0.26822	-4.096258
EEF1A2	0.1539624	6.8140647	2.2666156	0.0490083	0.26827	-4.097213
UPK3BL	-0.544329	9.8022783	-2.266589	0.0490105	0.26827	-4.097254
SNORD99	-0.216428	8.0320989	-2.266458	0.0490211	0.26827	-4.097454
GSTK1	0.1574223	10.813007	2.2659047	0.0490658	0.26841	-4.098297
FAM60A	-0.185942	9.7522992	-2.264594	0.049172	0.26885	-4.100295
DHX38	0.2315471	8.181859	2.264466	0.0491823	0.26885	-4.10049
PTK2	-0.197123	7.7456991	-2.263804	0.049236	0.26892	-4.101499
MPLKIP	-0.16069	8.6709802	-2.263385	0.0492701	0.26892	-4.102138
NPHP4	0.1901774	7.517611	2.2630478	0.0492975	0.26892	-4.102651
SH3YL1	-0.191271	6.91899	-2.263034	0.0492986	0.26892	-4.102673
NDUFA12	0.2409971	12.027405	2.2628364	0.0493146	0.26892	-4.102973
CYP27B1	-0.214201	7.5555334	-2.262748	0.0493218	0.26892	-4.103108
GHDC	0.2512718	8.2048002	2.2625772	0.0493357	0.26892	-4.103368
CALD1	-0.209491	6.9634713	-2.26232	0.0493567	0.26892	-4.10376
SHCBP1	-0.271864	9.514294	-2.262245	0.0493627	0.26892	-4.103874
E2F2	0.1758871	11.284503	2.2609428	0.0494688	0.26928	-4.105858
RMND5A	0.1611915	7.2845606	2.2604165	0.0495117	0.26928	-4.10666
TMEM99	-0.135363	7.9778015	-2.260377	0.049515	0.26928	-4.10672
LOC100129(	-0.210245	7.5316028	-2.260245	0.0495258	0.26928	-4.106922
SREBF1	0.194397	7.6293769	2.2598933	0.0495545	0.26928	-4.107457
GLRX	-0.221648	11.720906	-2.259721	0.0495686	0.26928	-4.10772
DCAKD	-0.256198	10.094594	-2.259654	0.049574	0.26928	-4.107822
INTS3	0.3396709	9.2636188	2.2596375	0.0495754	0.26928	-4.107847
TACO1	-0.216955	9.7895124	-2.259357	0.0495983	0.2693	-4.108274
METTL16	0.2861041	7.6764823	2.2589018	0.0496355	0.26941	-4.108967
ZNF283	-0.152314	6.9688899	-2.258346	0.049681	0.26951	-4.109814
PGK1	0.1576042	11.753233	2.2582163	0.0496916	0.26951	-4.110011
ZSCAN32	-0.169273	8.9877773	-2.257601	0.0497421	0.26968	-4.110949
NCAPG	0.2228061	10.006877	2.2565245	0.0498304	0.27006	-4.112588
ITGB1BP1	-0.14728	9.3131785	-2.255408	0.0499221	0.27034	-4.114288
P2RX5	0.436076	9.0190505	2.2553408	0.0499277	0.27034	-4.11439
RAX2	-0.180586	7.6968113	-2.255226	0.0499371	0.27034	-4.114565

TPT1	0.1935141	13.466412	2.2544712	0.0499993	0.27057	-4.115714
SELENOH	-0.186844	7.0845325	-2.253569	0.0500737	0.27088	-4.117088
TMUB2	-0.181409	7.6828373	-2.253267	0.0500986	0.27091	-4.117547
ACTL6A	0.1528606	10.807654	2.2530271	0.0501184	0.27092	-4.117912
CHCHD7	-0.187753	9.5268363	-2.251824	0.0502178	0.27122	-4.119743
C1orf189	-0.134247	6.961521	-2.251409	0.0502522	0.27122	-4.120375
GOLGA5	-0.170827	9.0400567	-2.251284	0.0502626	0.27122	-4.120566
MRPL43	-0.157432	8.647527	-2.250191	0.0503531	0.27122	-4.122228
TMEM87A	-0.203495	10.743785	-2.249883	0.0503788	0.27122	-4.122698
USP21	0.1769475	7.5133673	2.2497569	0.0503892	0.27122	-4.122889
RAB33B	-0.324397	7.8418361	-2.249229	0.050433	0.27122	-4.123692
HIST1H2BJ	-0.277247	7.2658051	-2.24919	0.0504362	0.27122	-4.123751
CSAG1	0.1816102	7.1348505	2.24916	0.0504388	0.27122	-4.123797
ZNF213	0.1488337	7.4353981	2.2491139	0.0504426	0.27122	-4.123868
PRCP	-0.255315	9.8721447	-2.248848	0.0504647	0.27122	-4.124271
RTN4R	0.1721238	6.8065974	2.2487371	0.0504739	0.27122	-4.124441
CDCA5	0.3079311	10.580095	2.248628	0.050483	0.27122	-4.124607
SF3A1	0.1736322	7.7772914	2.2483779	0.0505038	0.27122	-4.124987
NME1	-0.178366	10.905281	-2.248349	0.0505062	0.27122	-4.125031
FAS	-0.167742	8.6738579	-2.2481	0.0505269	0.27122	-4.125409
TMEM202	0.1471937	6.9624269	2.2478867	0.0505447	0.27122	-4.125735
SLC9A8	0.180329	7.5360679	2.2476526	0.0505642	0.27122	-4.126091
DEDD2	-0.267945	9.0640079	-2.247614	0.0505674	0.27122	-4.126149
SACM1L	-0.296132	8.8621387	-2.247585	0.0505698	0.27122	-4.126193
IFI30	0.3333966	10.740419	2.2475145	0.0505757	0.27122	-4.126301
FAM204A	-0.239848	7.3504162	-2.24743	0.0505828	0.27122	-4.12643
FAM219B	-0.160503	8.0282768	-2.246855	0.0506307	0.27125	-4.127304
NAPRT	-0.244558	7.6368433	-2.246723	0.0506417	0.27125	-4.127505
GNPDA1	-0.202104	7.5473757	-2.24668	0.0506453	0.27125	-4.127571
UBE2O	0.4420065	8.5101305	2.2463126	0.0506759	0.27132	-4.128129
PGM5-AS1	0.2217871	7.4822389	2.2458141	0.0507176	0.27134	-4.128887
PECR	-0.362061	8.0529104	-2.245714	0.050726	0.27134	-4.12904
MAGED2	-0.140574	7.1732897	-2.245591	0.0507362	0.27134	-4.129226
RPS6	-0.174541	13.998093	-2.244274	0.0508464	0.27175	-4.131229
PCMT1	-0.199328	11.693083	-2.244233	0.0508498	0.27175	-4.131291
MAP4K3	0.2067341	7.497553	2.2438866	0.0508789	0.27177	-4.131819
MFNG	-0.179387	11.841176	-2.243756	0.0508899	0.27177	-4.132018
ZFAND3	0.2567419	7.6438262	2.2432229	0.0509345	0.27185	-4.132828
SLC22A9	0.1743346	6.8423086	2.2430488	0.0509491	0.27185	-4.133092
SRSF11	-0.259077	8.3425853	-2.242913	0.0509605	0.27185	-4.133298
BSCL2	-0.156688	9.3609175	-2.242644	0.0509831	0.27187	-4.133708
ILDR1	-0.192636	7.551047	-2.242371	0.051006	0.27189	-4.134123
INIP	-0.172829	10.274755	-2.241855	0.0510495	0.27202	-4.134908
TMEM143	0.1745646	7.6608522	2.2412873	0.0510972	0.27218	-4.13577
DDX23	0.1417137	8.3178171	2.2395673	0.0512421	0.27277	-4.138385

FAM110A	0.1910175	7.924907	2.2391574	0.0512767	0.27277	-4.139008
ACTB	0.3401725	14.209616	2.2391296	0.0512791	0.27277	-4.13905
MTBP	-0.206628	7.1041017	-2.23908	0.0512833	0.27277	-4.139125
METTL2A	0.187021	7.9143377	2.2385751	0.0513259	0.27288	-4.139893
ZDHHC21	-0.179952	6.860347	-2.238393	0.0513413	0.27288	-4.140169
CREBZF	-0.162544	8.0197182	-2.237881	0.0513847	0.27298	-4.140948
HBA2	0.1496698	6.9293811	2.237551	0.0514126	0.27298	-4.141449
ANKIB1	0.2354783	9.0381915	2.2374958	0.0514172	0.27298	-4.141533
MAU2	0.1487026	8.0708369	2.237292	0.0514345	0.27298	-4.141842
C20orf196	-0.197667	7.8905228	-2.2366	0.0514932	0.27305	-4.142894
HAGH	-0.225884	7.8485147	-2.236599	0.0514933	0.27305	-4.142896
RIOK2	0.2154804	9.1295291	2.2364446	0.0515063	0.27305	-4.14313
TMEM165	-0.185478	8.3267381	-2.236072	0.0515379	0.27305	-4.143696
SCN3A	0.2023707	6.958293	2.2358446	0.0515572	0.27305	-4.144041
CPSF4L	0.1537837	7.1145269	2.23581	0.0515602	0.27305	-4.144094
ITGA3	-0.140173	6.8880625	-2.235542	0.051583	0.27307	-4.144502
RWDD2A	-0.236585	8.2573029	-2.234839	0.0516427	0.27329	-4.145568
ACAP2	0.1946683	7.9784443	2.2341178	0.0517041	0.27348	-4.146664
MED31	-0.192489	9.2235528	-2.233978	0.051716	0.27348	-4.146877
APBB1IP	0.4374733	9.9388882	2.2336891	0.0517406	0.27348	-4.147315
TMEM106A	-0.209128	8.591184	-2.233538	0.0517534	0.27348	-4.147545
GSTZ1	-0.206914	7.9348638	-2.233171	0.0517848	0.27354	-4.148103
BST2	-0.349949	10.638323	-2.232866	0.0518108	0.27358	-4.148566
STAT6	0.1800876	9.259798	2.2323951	0.0518509	0.27363	-4.149281
PALLD	0.2357934	9.9836664	2.2323255	0.0518569	0.27363	-4.149386
COCH	-0.165428	7.212433	-2.232038	0.0518815	0.27366	-4.149824
TNFRSF13B	0.1584052	9.3373243	2.230437	0.0520184	0.27412	-4.152254
ZDHHC18	0.241053	8.503918	2.2303406	0.0520266	0.27412	-4.1524
SPECC1L	0.1656246	9.4287718	2.2302419	0.0520351	0.27412	-4.15255
RHOU	-0.157464	7.0439228	-2.230134	0.0520443	0.27412	-4.152714
NSUN4	-0.184023	9.1914051	-2.229702	0.0520813	0.27422	-4.15337
FBXO25	0.1615464	6.771208	2.228705	0.0521669	0.27426	-4.154883
FBXO16	-0.219634	7.169568	-2.228559	0.0521794	0.27426	-4.155105
RBPMS2	-0.234513	7.1963595	-2.228552	0.0521801	0.27426	-4.155116
NOA1	0.1587504	10.005581	2.2284646	0.0521875	0.27426	-4.155248
FER1L6-AS1	0.1849839	6.9123981	2.2282765	0.0522037	0.27426	-4.155534
EED	-0.210258	7.893772	-2.228049	0.0522233	0.27426	-4.155879
ENY2	0.2200077	11.708934	2.227768	0.0522474	0.27426	-4.156305
SMARCE1	-0.207638	9.2546957	-2.227556	0.0522657	0.27426	-4.156627
TMCO1	-0.187805	10.67917	-2.227484	0.0522719	0.27426	-4.156737
SNORD114-1	-0.179961	7.1487919	-2.227414	0.0522779	0.27426	-4.156843
DDX46	0.2783557	9.4468225	2.2268269	0.0523284	0.2743	-4.157734
SLC25A14	-0.171903	8.0254976	-2.226797	0.052331	0.2743	-4.157779
KRT75	-0.152798	6.9482095	-2.22661	0.0523471	0.2743	-4.158063
C5orf30	0.1825679	8.4813262	2.2264619	0.0523599	0.2743	-4.158288

OPA1	0.1917903	7.7671534	2.2259235	0.0524063	0.27444	-4.159105
CFAP61	-0.158712	6.8640638	-2.225721	0.0524238	0.27444	-4.159413
UPB1	-0.225843	7.5549215	-2.224858	0.0524983	0.27473	-4.160721
VPS35	-0.267287	11.013725	-2.2245	0.0525292	0.27476	-4.161264
ACAA2	-0.210256	8.8677079	-2.224136	0.0525608	0.27476	-4.161817
C6orf223	0.1715377	7.4217884	2.2241257	0.0525616	0.27476	-4.161832
PLD3	-0.148557	7.4690775	-2.223174	0.0526441	0.27509	-4.163277
ITPA	-0.15031	10.051816	-2.222628	0.0526913	0.27524	-4.164104
ZNF771	-0.147598	6.8948054	-2.221907	0.0527539	0.27547	-4.165198
CTNS	-0.188192	9.2760547	-2.22142	0.0527962	0.27559	-4.165936
CATSPER3	-0.144704	6.817869	-2.22051	0.0528753	0.27586	-4.167316
CAPRIN1	0.13889	8.8793761	2.22039	0.0528858	0.27586	-4.167499
COMMD5	-0.135578	8.1084892	-2.220073	0.0529134	0.27586	-4.167979
APC	0.2302187	6.9393266	2.2199568	0.0529235	0.27586	-4.168155
GUF1	0.2065791	8.8936118	2.2195683	0.0529573	0.27594	-4.168744
KIF21B	0.1963118	7.6845468	2.2193644	0.0529751	0.27594	-4.169054
SETDB2	-0.153986	9.4584579	-2.218975	0.053009	0.27601	-4.169644
SPAG7	-0.153097	8.9676308	-2.218304	0.0530676	0.27622	-4.170661
PRADC1	-0.164392	8.7141901	-2.217949	0.0530986	0.27622	-4.171199
EML3	-0.314229	9.4477821	-2.217869	0.0531056	0.27622	-4.17132
CELF2-AS2	0.1594186	6.9413199	2.2175905	0.05313	0.27625	-4.171743
ANKHD1-EIF	0.1724806	7.3358988	2.2170529	0.053177	0.27631	-4.172558
SNX18	0.2674736	7.0558462	2.2167515	0.0532034	0.27631	-4.173015
MAGEH1	-0.150953	7.5035184	-2.216603	0.0532164	0.27631	-4.173241
GOLIM4	0.1892128	8.1086089	2.2165818	0.0532182	0.27631	-4.173272
SAR1A	-0.401668	8.9708734	-2.216248	0.0532474	0.27633	-4.173777
EIF4E	-0.186479	7.6216987	-2.216075	0.0532626	0.27633	-4.17404
GPR135	0.142363	6.9214922	2.2158953	0.0532784	0.27633	-4.174313
NCS1	-0.164878	6.9028429	-2.214648	0.0533879	0.27676	-4.176203
MYNN	-0.186026	8.7024967	-2.214373	0.053412	0.27676	-4.176619
DHX32	-0.159681	6.8028606	-2.214102	0.0534358	0.27676	-4.17703
SDC1	0.1469493	7.1055878	2.2139443	0.0534497	0.27676	-4.177269
SRP54	0.1681693	10.765161	2.2138758	0.0534557	0.27676	-4.177373
AGO1	0.1407261	8.307168	2.2132282	0.0535127	0.27688	-4.178354
KEAP1	0.3175754	8.9790345	2.2131806	0.0535169	0.27688	-4.178426
BUB3	-0.186395	9.7150303	-2.212792	0.0535511	0.27696	-4.179015
HEBP1	-0.191855	8.352175	-2.211591	0.053657	0.27731	-4.180835
AKAP13	0.1655037	8.282462	2.2115882	0.0536573	0.27731	-4.180839
KRR1	0.1523519	7.5639518	2.2107262	0.0537334	0.27756	-4.182145
FAM86DP	-0.193058	7.8663219	-2.210463	0.0537567	0.27756	-4.182544
ADO	0.1453882	9.4990329	2.2103882	0.0537633	0.27756	-4.182656
UBA7	-0.21632	7.6723382	-2.20986	0.0538101	0.27771	-4.183457
CD82	0.3146643	9.0142018	2.2092155	0.0538671	0.27784	-4.184433
PYGL	-0.150525	7.345115	-2.209133	0.0538744	0.27784	-4.184558
PBX3	0.1790619	9.1252063	2.2087245	0.0539106	0.27793	-4.185176

DSCC1	0.166172	9.2443725	2.2081095	0.0539652	0.27812	-4.186107
C2orf42	-0.23622	8.3188526	-2.207383	0.0540297	0.27828	-4.187208
SNAP47	-0.157845	8.0591756	-2.207309	0.0540363	0.27828	-4.187319
R3HDM4	0.3265761	9.7945014	2.2068163	0.0540801	0.27829	-4.188065
DISP1	-0.213908	7.0647793	-2.206677	0.0540925	0.27829	-4.188277
TNS4	-0.172184	7.1001765	-2.206454	0.0541123	0.27829	-4.188613
INPP1	-0.213211	7.0221043	-2.206402	0.054117	0.27829	-4.188693
SNRPD2	-0.165077	10.572697	-2.20604	0.0541492	0.27829	-4.18924
PIGO	0.142817	7.418948	2.2060028	0.0541525	0.27829	-4.189297
MCRIP1	0.2089403	7.8917973	2.2052781	0.0542171	0.27847	-4.190394
POC1B	-0.217106	8.436702	-2.205042	0.0542381	0.27847	-4.190751
MIR586	0.2429145	8.0808858	2.2049856	0.0542432	0.27847	-4.190837
SNORD25	-0.218179	7.6857322	-2.20471	0.0542677	0.27848	-4.191253
COPA	0.2816413	11.109231	2.2040961	0.0543226	0.27848	-4.192183
UBE2F	-0.242416	9.744057	-2.203846	0.0543449	0.27848	-4.192561
MKRN1	0.1827498	10.573012	2.2036974	0.0543582	0.27848	-4.192786
LINC01512	0.2452464	7.1891513	2.2036814	0.0543596	0.27848	-4.19281
CPSF2	0.2230353	8.5253877	2.2036382	0.0543635	0.27848	-4.192876
ZNF226	-0.135446	6.9036814	-2.202987	0.0544217	0.27848	-4.193861
ATP11C	0.1704677	8.0467783	2.2026275	0.0544539	0.27848	-4.194405
AAGAB	-0.163887	9.257312	-2.202589	0.0544574	0.27848	-4.194464
IL17RB	-0.132729	6.8120302	-2.202576	0.0544585	0.27848	-4.194483
PRRC2B	0.1783513	7.7543666	2.2024315	0.0544715	0.27848	-4.194702
KMT5C	0.2303834	7.2148635	2.2019481	0.0545148	0.27848	-4.195433
DCP1A	0.2280438	8.3974834	2.2018949	0.0545196	0.27848	-4.195514
FAM57B	0.1340569	7.0285498	2.201723	0.054535	0.27848	-4.195774
TIMM22	-0.201122	10.321393	-2.201672	0.0545395	0.27848	-4.195851
BBX	0.4646863	9.3209463	2.201538	0.0545516	0.27848	-4.196054
ZNF282	0.1755839	7.9224634	2.2012163	0.0545804	0.27853	-4.19654
TRAPPC11	-0.190245	8.7450218	-2.200673	0.0546292	0.27868	-4.197363
B2M	-0.147168	13.307911	-2.200455	0.0546488	0.27869	-4.197692
RBM6	-0.170629	9.0194015	-2.200203	0.0546715	0.2787	-4.198074
SPDYA	-0.175135	6.8351926	-2.199647	0.0547214	0.27886	-4.198914
TNKS1BP1	0.1822085	7.1598856	2.19926	0.0547563	0.27891	-4.1995
SAP30BP	0.1456992	7.4303264	2.1991158	0.0547692	0.27891	-4.199718
N4BP1	0.180804	7.2199139	2.1984945	0.0548252	0.27905	-4.200658
ZADH2	0.1735096	7.4463604	2.1983268	0.0548403	0.27905	-4.200911
NCOA4	-0.169773	11.901975	-2.198167	0.0548547	0.27905	-4.201153
ATXN3	0.1386507	7.2904251	2.1978985	0.054879	0.27908	-4.201559
DEGS1	-0.233483	9.8251779	-2.197525	0.0549127	0.27915	-4.202124
ZNHIT6	0.1430493	9.4642975	2.1968535	0.0549733	0.27936	-4.203139
FLNA	0.3638716	7.438937	2.1961615	0.0550359	0.27959	-4.204185
INTS1	-0.236454	9.4948299	-2.195578	0.0550887	0.27974	-4.205068
INTS6-AS1	0.2209517	7.1742178	2.1953157	0.0551125	0.27974	-4.205464
ZNF142	0.1797407	9.7376129	2.1951915	0.0551237	0.27974	-4.205652

LINC00339	-0.166501	8.5644367	-2.193918	0.0552392	0.28013	-4.207576
LYAR	0.1543726	10.861524	2.1937356	0.0552558	0.28013	-4.207853
TAF1B	-0.152549	8.406853	-2.193684	0.0552605	0.28013	-4.207931
FLT3LG	-0.154427	7.0328753	-2.19349	0.0552781	0.28013	-4.208224
ABCC4	-0.222563	8.5610115	-2.192915	0.0553304	0.2803	-4.209094
TRPT1	-0.293359	10.552662	-2.192013	0.0554125	0.28058	-4.210457
STARD10	-0.166819	7.2073207	-2.191619	0.0554484	0.28058	-4.211052
KPNA5	-0.131568	7.0152474	-2.191492	0.05546	0.28058	-4.211244
PTK2B	0.1675577	7.8219186	2.1914726	0.0554617	0.28058	-4.211273
NDUFAF4	-0.166474	9.1390757	-2.191151	0.0554911	0.28062	-4.211759
NEDD1	0.1354542	7.4401988	2.1909475	0.0555096	0.28062	-4.212066
PFKL	0.1759631	7.6910485	2.1896101	0.0556318	0.28114	-4.214087
HUS1	0.1555846	7.1300096	2.189025	0.0556853	0.28132	-4.214971
RNF4	0.1450512	9.0418723	2.1883237	0.0557495	0.28149	-4.21603
CHKA	0.1777	8.5073835	2.1882401	0.0557571	0.28149	-4.216156
PUF60	-0.255426	11.441786	-2.187397	0.0558344	0.28178	-4.217429
RBM42	0.356428	9.151423	2.1868988	0.0558802	0.28185	-4.218182
ZNF860	0.1553753	7.6524224	2.186284	0.0559367	0.28185	-4.21911
RPL29P2	-0.196623	7.5015195	-2.186261	0.0559388	0.28185	-4.219146
LUC7L3	-0.223545	8.2327793	-2.185916	0.0559705	0.28185	-4.219666
CDC25A	0.1584847	8.7238647	2.1859009	0.0559719	0.28185	-4.219689
CD99L2	-0.155692	9.0622474	-2.185885	0.0559734	0.28185	-4.219713
NKRF	0.2226638	8.633886	2.185762	0.0559847	0.28185	-4.219899
F12	-0.191367	7.705219	-2.185426	0.0560155	0.28191	-4.220405
PFKM	-0.170694	10.572433	-2.185023	0.0560527	0.282	-4.221015
UBE2D4	-0.193839	9.212285	-2.183831	0.0561626	0.2822	-4.222814
RAC2	0.3151832	12.701177	2.1837955	0.0561658	0.2822	-4.222867
DSCR4	0.1586171	6.8724222	2.1835936	0.0561845	0.2822	-4.223172
FAM122B	0.1939007	8.7678749	2.1835845	0.0561853	0.2822	-4.223186
FIBCD1	0.217896	7.0614272	2.1835573	0.0561878	0.2822	-4.223227
KLF12	0.1808985	7.3594332	2.1826663	0.0562701	0.28237	-4.224572
SRP72	-0.190962	10.059328	-2.182641	0.0562724	0.28237	-4.22461
ZNF559	-0.171357	7.7476276	-2.182373	0.0562973	0.28237	-4.225015
VLDLR-AS1	0.1375298	7.2300727	2.1822716	0.0563066	0.28237	-4.225168
RMRP	-0.217271	7.026488	-2.182133	0.0563194	0.28237	-4.225376
CSF2RA	-0.142987	7.9838427	-2.181463	0.0563815	0.28256	-4.226388
ZBTB39	0.158556	7.3385558	2.1811436	0.0564111	0.28256	-4.22687
8-Sep	-0.172423	6.9691698	-2.181098	0.0564153	0.28256	-4.226939
MICU3	0.1449307	6.8965221	2.1803887	0.0564811	0.28277	-4.228009
ACD	0.2434191	8.6638982	2.1800967	0.0565082	0.28277	-4.22845
SDHA	0.1941581	9.6659729	2.1797297	0.0565422	0.28277	-4.229003
CCDC69	0.2610033	8.4512675	2.1796093	0.0565534	0.28277	-4.229185
AGPAT4	-0.159651	7.6619522	-2.179597	0.0565546	0.28277	-4.229204
EFR3A	0.2099528	9.0272441	2.1792765	0.0565843	0.28282	-4.229687
MAP4	0.1932074	7.620504	2.1786151	0.0566458	0.28285	-4.230685

PIM3	0.1982169	7.3710106	2.1785557	0.0566514	0.28285	-4.230775
FBXW4	0.2191467	8.2229943	2.1784967	0.0566569	0.28285	-4.230864
ZFYVE16	0.1458282	7.2359885	2.1783427	0.0566712	0.28285	-4.231096
OPA3	0.1984882	7.6479944	2.1781702	0.0566873	0.28285	-4.231356
SLC9B2	-0.133645	7.3297976	-2.177771	0.0567244	0.28294	-4.231958
CAMKMT	-0.219133	8.5286249	-2.176164	0.0568744	0.28326	-4.234382
ALOX12B	-0.142476	7.2352714	-2.176106	0.0568798	0.28326	-4.23447
C9orf72	-0.131828	7.1867159	-2.17605	0.056885	0.28326	-4.234554
ZBTB11	-0.25002	7.4215665	-2.175966	0.0568929	0.28326	-4.234681
DFNB59	-0.132565	7.1606902	-2.175924	0.0568968	0.28326	-4.234745
TNFRSF10B	-0.171029	7.7110867	-2.175852	0.0569035	0.28326	-4.234852
ZNF606	-0.152852	6.8318666	-2.174926	0.0569901	0.28359	-4.236248
KDM4A	-0.165925	7.0591483	-2.174631	0.0570178	0.2836	-4.236694
C1D	-0.206929	7.2730546	-2.174374	0.0570418	0.2836	-4.237081
PLEKHO1	-0.197245	7.8220769	-2.174291	0.0570496	0.2836	-4.237207
ACSF2	-0.150535	7.4605646	-2.173959	0.0570806	0.28365	-4.237706
INTS7	-0.250619	7.7792495	-2.17307	0.057164	0.28395	-4.239047
CNST	0.3269246	9.6656466	2.1726906	0.0571997	0.28395	-4.239619
LINC01634	0.1712172	7.0026585	2.1726758	0.0572011	0.28395	-4.239641
MASP2	0.1959009	7.0125168	2.1723895	0.057228	0.28395	-4.240073
PABPC3	0.1966893	8.5974896	2.1722138	0.0572445	0.28395	-4.240338
TRMT11	-0.18077	7.8168388	-2.172086	0.0572565	0.28395	-4.24053
LMBR1L	0.1458415	6.9435491	2.171579	0.0573042	0.28409	-4.241295
ACHE	-0.192545	6.953646	-2.170582	0.0573981	0.28438	-4.242798
WDR12	-0.169744	10.660082	-2.17038	0.0574172	0.28438	-4.243102
FAM86HP	-0.216408	8.9820142	-2.170334	0.0574215	0.28438	-4.243171
VPS37B	0.2381952	7.108554	2.1700727	0.0574461	0.2844	-4.243565
ORAOV1	-0.2323	8.5848277	-2.169682	0.057483	0.28445	-4.244154
IFT74	-0.271007	7.8268798	-2.169561	0.0574944	0.28445	-4.244336
SNORD32A	-0.169184	7.8450382	-2.168772	0.057569	0.28469	-4.245525
CYP11A1	-0.164343	7.0736541	-2.168641	0.0575813	0.28469	-4.245722
NUP160	0.1521626	9.6583045	2.1684282	0.0576014	0.28469	-4.246042
TSPO	-0.14581	8.9727595	-2.167565	0.0576831	0.285	-4.247343
ZNF598	0.1619093	9.0504777	2.1667006	0.057765	0.28531	-4.248645
RPL19P9	-0.227389	13.265382	-2.166269	0.0578059	0.28533	-4.249295
RAB3GAP2	0.2309071	10.144494	2.16623	0.0578096	0.28533	-4.249353
ZNF341	0.1881158	7.6670046	2.1657061	0.0578594	0.28548	-4.250142
FAM98A	-0.247504	10.877368	-2.165385	0.0578899	0.28554	-4.250627
ADA2	0.1602117	7.5627923	2.1649524	0.057931	0.28564	-4.251277
LINC00272	0.2009958	6.9872672	2.1645767	0.0579667	0.28565	-4.251843
RAP2A	0.2597838	9.7786713	2.1645356	0.0579707	0.28565	-4.251905
HDHD5-AS1	-0.170017	7.0211897	-2.163419	0.058077	0.28596	-4.253586
ANKS1A	0.1936268	8.8687727	2.163001	0.0581169	0.28596	-4.254216
ABHD3	-0.180539	9.0219062	-2.162484	0.0581662	0.28596	-4.254993
ZNF704	0.1547921	7.1682682	2.1624404	0.0581704	0.28596	-4.25506

CSN1S1	0.1426669	6.8500701	2.1624324	0.0581711	0.28596	-4.255072
FAM45BP	0.1943785	7.0429313	2.1621763	0.0581956	0.28596	-4.255457
HSD17B11	-0.205155	7.7828452	-2.162116	0.0582013	0.28596	-4.255547
ST14	0.2395817	8.3678168	2.1619804	0.0582143	0.28596	-4.255752
GPR183	0.2153644	8.5353569	2.1618762	0.0582242	0.28596	-4.255909
MACROD2	0.1417559	6.7956391	2.1618097	0.0582306	0.28596	-4.256009
TIMM23	-0.132163	10.814877	-2.161431	0.0582668	0.28596	-4.256579
FOXL2NB	0.13917	6.9316785	2.1614105	0.0582688	0.28596	-4.25661
TTR	0.1627269	6.9352123	2.1604405	0.0583616	0.28632	-4.25807
GUSBP2	0.1894328	8.0846168	2.1600756	0.0583965	0.28639	-4.258619
ARHGEF3	-0.148963	8.6558914	-2.15943	0.0584584	0.2866	-4.25959
CNP	-0.178402	6.9211724	-2.1592	0.0584806	0.28661	-4.259937
ABTB2	0.1340614	7.1225521	2.1582597	0.0585708	0.28696	-4.261351
CXXC5	0.3602085	11.05391	2.1579842	0.0585973	0.28699	-4.261766
FBXO28	-0.190208	8.8129058	-2.157696	0.058625	0.28703	-4.262199
SNORA72	-0.149696	7.4518712	-2.157122	0.0586802	0.2872	-4.263063
PTCD2	0.1289285	8.2125234	2.1567782	0.0587134	0.28727	-4.26358
KIFC3	0.2162335	6.979635	2.1559311	0.058795	0.28748	-4.264854
PRSS16	-0.139848	6.7727601	-2.155928	0.0587953	0.28748	-4.264858
AGPAT1	0.2544115	8.3599437	2.1547513	0.0589089	0.28781	-4.266628
MTA1	0.3178621	9.9524677	2.1546737	0.0589164	0.28781	-4.266745
GOSR2	-0.143692	7.6497335	-2.154529	0.0589304	0.28781	-4.266963
INO80E	0.3800483	9.2966404	2.1543977	0.0589431	0.28781	-4.26716
CENPO	-0.143006	7.4897266	-2.153429	0.0590369	0.28817	-4.268617
GPR19	0.1637846	7.1896267	2.1531289	0.0590659	0.28817	-4.269068
DHTKD1	0.1572022	8.3201363	2.1530288	0.0590756	0.28817	-4.269218
RHOQ	0.2101388	8.8005747	2.1518697	0.0591881	0.28862	-4.270961
FMR1-AS1	-0.250507	6.871151	-2.151618	0.0592125	0.28865	-4.27134
FAM103A1	-0.228774	8.2470779	-2.15113	0.0592599	0.28868	-4.272073
IGBP1P1	-0.195217	7.2616796	-2.151024	0.0592702	0.28868	-4.272232
LOC729879	0.1819656	6.9052794	2.1509293	0.0592794	0.28868	-4.272374
SDF2L1	-0.189893	11.776213	-2.150698	0.0593019	0.2887	-4.272722
FAM156B	0.279223	9.093347	2.1502348	0.059347	0.28876	-4.273418
ERAP2	0.2061944	9.5312932	2.1501493	0.0593553	0.28876	-4.273546
GLYR1	0.1712332	8.631123	2.1498577	0.0593837	0.28881	-4.273985
NKIRAS1	-0.16593	8.4419308	-2.148338	0.0595319	0.28939	-4.276268
ZCCHC14	0.2263486	7.3076254	2.1481473	0.0595505	0.28939	-4.276555
KBTBD4	0.1625277	7.8514866	2.1480058	0.0595643	0.28939	-4.276767
SNX29	-0.13738	7.4751496	-2.146775	0.0596847	0.28988	-4.278616
TMEM177	0.1711393	9.1196943	2.1465109	0.0597105	0.28991	-4.279013
FABP5P3	-0.251	7.9305817	-2.145658	0.0597941	0.29022	-4.280294
KCTD11	-0.161191	7.1359439	-2.145353	0.059824	0.29027	-4.280752
PPL	0.1579756	6.8820065	2.1449864	0.05986	0.29035	-4.281303
HSF2BP	-0.172286	7.1315997	-2.143635	0.0599928	0.2909	-4.283332
JAK1	0.2276849	8.4124726	2.1432558	0.0600301	0.29098	-4.283901

CALB2	-0.17126	7.6819273	-2.142499	0.0601046	0.29124	-4.285037
CTNNBIP1	0.1972779	7.5416146	2.1421789	0.0601362	0.2913	-4.285518
USF1	-0.172447	7.8475938	-2.141408	0.0602122	0.29157	-4.286675
CEP57	-0.254183	7.5369005	-2.14073	0.0602792	0.2918	-4.287693
KMT2B	0.1876795	8.3684577	2.1400165	0.0603497	0.29204	-4.288763
AACS	-0.146491	7.3787627	-2.138893	0.060461	0.29236	-4.29045
AFMID	-0.200126	8.1705044	-2.138716	0.0604785	0.29236	-4.290715
U2AF1L4	-0.134353	7.4878224	-2.138579	0.0604921	0.29236	-4.29092
ESPNL	-0.183985	7.4529424	-2.138447	0.0605052	0.29236	-4.291119
MTF1	0.2007381	8.2196292	2.138353	0.0605145	0.29236	-4.29126
GNL2	-0.377289	10.107417	-2.138096	0.06054	0.29238	-4.291645
C19orf12	-0.16916	8.6944904	-2.137823	0.0605671	0.29242	-4.292054
SOGA1	0.1544173	7.2500518	2.1371962	0.0606294	0.29258	-4.292995
SMAD6	-0.15166	6.9275929	-2.13708	0.0606409	0.29258	-4.293169
EIF4E2	0.2433731	10.443861	2.1368514	0.0606636	0.29259	-4.293512
TDG	0.2119462	10.383723	2.1362203	0.0607264	0.29278	-4.294459
LRRC75B	-0.140837	6.6645789	-2.136055	0.0607428	0.29278	-4.294707
KDM3B	0.1696323	9.0041459	2.1337215	0.0609756	0.29381	-4.298206
CCNE2	0.1989313	9.5194683	2.132965	0.0610512	0.29407	-4.29934
CPEB3	0.1728874	7.3427957	2.1325877	0.061089	0.29411	-4.299906
FBXO18	-0.17733	9.6102761	-2.132485	0.0610993	0.29411	-4.30006
RPS7	-0.174267	11.824761	-2.131856	0.0611623	0.29417	-4.301003
RNF31	0.2102746	8.2663652	2.131711	0.0611768	0.29417	-4.30122
CAV3	0.2025868	7.0757647	2.1312483	0.0612232	0.29417	-4.301914
LOC286254	-0.136856	6.9807084	-2.131011	0.061247	0.29417	-4.302269
PFDN1	0.2163166	10.007249	2.1309024	0.0612579	0.29417	-4.302432
FCRLB	-0.180784	8.067313	-2.130707	0.0612775	0.29417	-4.302725
RFTN1	-0.178697	12.31769	-2.130624	0.0612859	0.29417	-4.302849
WDFY1	0.2177265	9.6655769	2.130606	0.0612877	0.29417	-4.302877
NRP2	-0.161553	7.1378676	-2.130546	0.0612937	0.29417	-4.302966
BOK	-0.183323	6.9996523	-2.130053	0.0613432	0.29431	-4.303706
ADGRE5	0.1298637	7.6342708	2.1293403	0.0614149	0.29451	-4.304773
RGS6	-0.150892	6.9155107	-2.12924	0.061425	0.29451	-4.304924
SELENOS	-0.16063	8.9590149	-2.128844	0.0614648	0.29461	-4.305517
GPKOW	-0.300382	7.937777	-2.128511	0.0614984	0.29467	-4.306016
LMOD3	-0.260639	8.5786775	-2.128166	0.0615332	0.29474	-4.306533
SRSF9	0.2529703	12.522473	2.1279612	0.0615538	0.29474	-4.30684
NT5C	-0.298693	10.123407	-2.12771	0.0615792	0.29477	-4.307216
MSANTD4	0.2061097	9.2461049	2.1273564	0.0616148	0.29484	-4.307746
MAP10	0.1368219	6.7841484	2.1264863	0.0617027	0.29508	-4.309049
CAPN15	0.1739507	7.2492133	2.1263181	0.0617197	0.29508	-4.309301
SOX13	0.1798214	7.0512894	2.1262589	0.0617257	0.29508	-4.309389
SEPHS1	-0.168464	9.6615708	-2.125862	0.0617659	0.29518	-4.309985
C7orf25	0.1370259	8.2970083	2.1255123	0.0618012	0.29521	-4.310508
SLC29A1	0.2487364	9.5858033	2.1252452	0.0618283	0.29521	-4.310908

MTERF4	-0.181345	7.0100268	-2.125189	0.0618339	0.29521	-4.310991
STX12	-0.247313	9.0580205	-2.124063	0.0619481	0.29566	-4.312678
RPAP1	0.1865076	7.9206645	2.123717	0.0619832	0.29573	-4.313196
SNORD84	-0.233402	7.3185992	-2.123082	0.0620477	0.29594	-4.314147
PLD6	-0.144927	8.3841669	-2.12289	0.0620672	0.29594	-4.314434
MAPRE2	0.1642677	9.3547197	2.1220522	0.0621524	0.29616	-4.315688
ZNF385A	-0.129819	6.8363138	-2.122035	0.0621541	0.29616	-4.315713
ZNF749	-0.128611	6.9166536	-2.121685	0.0621898	0.29623	-4.316238
SPATA9	0.1578772	6.8862845	2.1207271	0.0622874	0.2966	-4.317671
TMEM203	0.21629	10.084056	2.1203709	0.0623238	0.29661	-4.318205
ATRAID	-0.151511	10.606128	-2.120314	0.0623296	0.29661	-4.31829
TMEM60	-0.182358	9.6962776	-2.119593	0.0624032	0.29686	-4.319368
EXD2	-0.165712	7.3279721	-2.118924	0.0624716	0.29697	-4.320369
RPS29	-0.15214	13.212072	-2.118866	0.0624775	0.29697	-4.320456
NCF1	0.35218	10.544242	2.1187655	0.0624878	0.29697	-4.320607
SLC4A7	0.2502006	9.0942989	2.1176159	0.0626055	0.29728	-4.322327
CSHL1	-0.166994	7.1855031	-2.117569	0.0626104	0.29728	-4.322397
FGR	0.1546884	10.162602	2.1175346	0.0626139	0.29728	-4.322448
EXT2	-0.127828	7.9280518	-2.11729	0.0626389	0.29731	-4.322814
RPS8	-0.297491	13.942252	-2.117086	0.0626599	0.29731	-4.32312
EIF3CL	0.3745318	8.4146956	2.1168059	0.0626886	0.29735	-4.323538
H3F3A	0.1574861	12.786506	2.1164007	0.0627302	0.29745	-4.324144
URGCP	0.1865168	8.4067096	2.1160164	0.0627697	0.29754	-4.324719
ZNF175	-0.140316	7.526961	-2.115452	0.0628277	0.29772	-4.325563
WDFY2	-0.167085	7.589762	-2.114885	0.0628861	0.2979	-4.326411
HLA-H	0.2382251	9.9601613	2.1146112	0.0629142	0.29793	-4.32682
GLRX2	-0.136099	8.5662898	-2.114353	0.0629408	0.29796	-4.327206
ROR1	0.1729794	7.0658642	2.1141353	0.0629633	0.29797	-4.327532
MOSPD1	-0.205847	7.0889557	-2.113821	0.0629957	0.29803	-4.328002
PRR13	0.1380521	10.213855	2.1135701	0.0630215	0.29806	-4.328377
ALDH4A1	-0.143143	7.2578987	-2.113128	0.0630671	0.29817	-4.329038
BET1L	0.2518257	7.551488	2.112526	0.0631293	0.29828	-4.329938
IER2	0.1449156	7.7565357	2.1123595	0.0631465	0.29828	-4.330186
VOPP1	0.1995077	9.7620549	2.1123264	0.06315	0.29828	-4.330236
MLF2	0.4183538	10.03925	2.1120056	0.0631831	0.29829	-4.330716
EIF3L	-0.13525	12.968054	-2.111904	0.0631937	0.29829	-4.330868
ZNF181	-0.215425	7.0916175	-2.111339	0.0632521	0.29845	-4.331712
FGD3	-0.273381	8.4473787	-2.111182	0.0632683	0.29845	-4.331946
SOCS7	0.1474251	6.9867142	2.1096161	0.0634307	0.29902	-4.334286
SFR1	0.1394786	7.6772919	2.1094465	0.0634483	0.29902	-4.33454
RNF219	0.194057	8.4533188	2.109324	0.063461	0.29902	-4.334723
MYO1D	0.1724035	7.30217	2.1092335	0.0634704	0.29902	-4.334858
PPP2R2C	0.1535838	6.9485637	2.1086377	0.0635323	0.29908	-4.335748
CENPH	-0.185055	7.6378301	-2.108514	0.0635452	0.29908	-4.335933
NAPSA	0.221404	8.7689992	2.1083701	0.0635601	0.29908	-4.336148

SMIM4	0.1811763	8.5573295	2.1083102	0.0635664	0.29908	-4.336237
SNORA63	-0.152034	8.6565212	-2.108112	0.063587	0.29908	-4.336533
CLPTM1	0.43822	9.4151946	2.1072187	0.06368	0.29942	-4.337868
SMAD3	0.1947067	7.7104371	2.1059929	0.0638078	0.29965	-4.339698
NSMCE2	-0.163604	8.7196485	-2.105931	0.0638144	0.29965	-4.339792
LSAMP	0.2414742	7.7390286	2.1056188	0.0638469	0.29965	-4.340257
MZB1	-0.210433	10.128429	-2.105498	0.0638595	0.29965	-4.340437
ITFG1	0.161634	9.0628876	2.1054272	0.0638669	0.29965	-4.340543
TAB1	0.1653073	7.5131455	2.1052677	0.0638836	0.29965	-4.340781
BMP3	0.1976604	6.8862611	2.1052662	0.0638837	0.29965	-4.340783
EIF3F	-0.178674	12.058335	-2.105181	0.0638926	0.29965	-4.34091
TSHZ3	-0.149411	6.905132	-2.104857	0.0639265	0.29971	-4.341395
CTDSP1	0.1925833	8.0560887	2.1044	0.0639743	0.29982	-4.342077
CD52	-0.154087	11.398866	-2.104239	0.0639912	0.29982	-4.342318
DCTN1	0.1626326	8.8173892	2.1028232	0.0641396	0.30036	-4.344431
ERAL1	0.2787289	10.588369	2.1026114	0.0641618	0.30036	-4.344747
PRR15	-0.252844	7.0714697	-2.102415	0.0641824	0.30036	-4.345041
LILRB3	-0.169029	9.8946838	-2.102337	0.0641906	0.30036	-4.345156
DRAM1	0.1398218	6.8411972	2.1021722	0.0642079	0.30036	-4.345402
PIDD1	0.1606931	7.571046	2.1017873	0.0642483	0.30045	-4.345977
PSMD3	0.1654849	8.361347	2.1008975	0.0643419	0.30079	-4.347304
MFSD14B	0.1799325	8.3242709	2.1002571	0.0644093	0.30092	-4.34826
CCDC59	0.2144403	10.990901	2.1002513	0.0644099	0.30092	-4.348269
E2F3	0.1465372	9.6517182	2.0999726	0.0644393	0.30092	-4.348685
KLHL6	0.2549023	8.5838599	2.0998487	0.0644524	0.30092	-4.348869
ATAD5	-0.214496	6.9095292	-2.099628	0.0644757	0.30093	-4.349199
PNPLA8	-0.280494	7.6328387	-2.097886	0.0646596	0.30162	-4.351797
TMEM67	-0.182543	7.4746006	-2.097848	0.0646636	0.30162	-4.351854
GSPT1	0.1509785	12.292775	2.0971084	0.0647418	0.30175	-4.352957
WDR62	0.2806784	7.3359681	2.0968058	0.0647739	0.30175	-4.353408
NLRP11	-0.15944	8.4359962	-2.096394	0.0648175	0.30175	-4.354022
MTF2	-0.187737	8.3861046	-2.095841	0.0648762	0.30175	-4.354847
LILRB1	-0.30129	11.615376	-2.095635	0.0648979	0.30175	-4.355153
ENKD1	-0.31383	8.7889199	-2.095602	0.0649015	0.30175	-4.355203
PAX8	-0.126286	6.9193679	-2.095585	0.0649033	0.30175	-4.355229
CLEC11A	0.2130925	7.82292	2.0955277	0.0649094	0.30175	-4.355314
SLC25A25	0.1513674	8.2357538	2.0954639	0.0649162	0.30175	-4.355409
VLDLR	0.1842644	7.1782786	2.0951657	0.0649478	0.30175	-4.355854
COL8A2	-0.136199	7.2200095	-2.095134	0.0649512	0.30175	-4.355901
GPR15	-0.181291	6.8819379	-2.095057	0.0649593	0.30175	-4.356015
SENP6	0.1312236	8.3177963	2.0950423	0.0649609	0.30175	-4.356038
SSU72	-0.344702	12.284119	-2.09473	0.0649941	0.30181	-4.356504
QRICH1	-0.144254	8.6457849	-2.093624	0.0651117	0.30226	-4.358151
RPL34	-0.137415	11.36823	-2.092737	0.0652062	0.30251	-4.359474
RPL37A	-0.150434	11.013749	-2.092735	0.0652064	0.30251	-4.359477

TACC3	0.1912859	8.8706899	2.0924714	0.0652345	0.30254	-4.35987
NBAS	0.1695172	7.6370333	2.0921246	0.0652715	0.30262	-4.360386
EIF2AK1	0.1308744	9.6566048	2.0911721	0.0653732	0.3029	-4.361806
LAMTOR3	-0.133213	7.9639426	-2.091165	0.065374	0.3029	-4.361816
SF3B4	0.3035974	10.720546	2.0909352	0.0653985	0.30291	-4.362159
PIBF1	-0.19378	7.7536135	-2.090753	0.065418	0.30291	-4.36243
DGUOK	-0.146538	9.5389991	-2.089563	0.0655454	0.30329	-4.364203
GPR65	-0.209342	7.7964002	-2.089531	0.0655488	0.30329	-4.364251
MINDY4B	0.136922	6.8633871	2.089361	0.065567	0.30329	-4.364504
BIN3	-0.147785	7.0639495	-2.089213	0.0655829	0.30329	-4.364724
PTEN	0.1782533	9.7154556	2.0887906	0.0656282	0.30331	-4.365353
ALPK2	-0.138276	6.9621178	-2.088777	0.0656296	0.30331	-4.365373
NUP205	0.1791609	10.63153	2.0880315	0.0657096	0.30346	-4.366484
C12orf77	-0.160872	7.6591961	-2.087958	0.0657175	0.30346	-4.366593
DDN	0.1952202	8.3781926	2.0879074	0.065723	0.30346	-4.366669
SMA5	-0.144411	6.9862086	-2.085999	0.0659282	0.30431	-4.36951
USP13	0.1705216	8.7628173	2.0847893	0.0660587	0.30481	-4.371311
WDR17	-0.129843	6.8605868	-2.084519	0.0660879	0.30481	-4.371714
TAAR5	0.1941982	6.9453551	2.0844156	0.066099	0.30481	-4.371867
SRRD	-0.244769	8.881952	-2.084063	0.0661371	0.30489	-4.372392
BNIP3L	0.1829572	8.0967648	2.0833038	0.0662192	0.30508	-4.373522
TRIM10	-0.153521	6.8770565	-2.083283	0.0662214	0.30508	-4.373552
SF3B2	0.2641976	10.283878	2.0826309	0.066292	0.30521	-4.374523
NELFB	0.2291166	8.5501118	2.0825318	0.0663028	0.30521	-4.374671
P2RY11	-0.204253	9.1287495	-2.082424	0.0663144	0.30521	-4.374831
HLA-DRB1	-0.163375	8.2551905	-2.082228	0.0663357	0.30521	-4.375123
SNORD110	-0.196319	7.6841068	-2.081875	0.0663739	0.30521	-4.375648
GCM1	0.1499177	6.9978825	2.0817097	0.0663919	0.30521	-4.375894
IFNLR1	-0.154262	8.5604953	-2.081666	0.0663967	0.30521	-4.375959
GFOD2	-0.174966	8.5700388	-2.081017	0.0664671	0.30521	-4.376924
ARHGEF19	-0.134492	8.0412775	-2.08086	0.0664841	0.30521	-4.377158
SPAG5	-0.187276	7.5444278	-2.080693	0.0665022	0.30521	-4.377406
FAM217B	0.2606664	8.742042	2.0805639	0.0665163	0.30521	-4.377598
FHIT	-0.191722	7.3231633	-2.080496	0.0665237	0.30521	-4.3777
HK1	0.1755836	9.0956058	2.0803204	0.0665427	0.30521	-4.377961
CAMTA2	-0.135972	6.8170804	-2.080189	0.0665571	0.30521	-4.378157
RCOR3	0.1685141	8.5941172	2.080135	0.0665629	0.30521	-4.378236
MEG8	0.1920162	7.2788988	2.079868	0.0665919	0.30525	-4.378633
IPO7	0.3420755	8.5697544	2.0795493	0.0666266	0.30531	-4.379107
ZNF674	-0.200058	13.906177	-2.079237	0.0666606	0.30537	-4.379572
FRS3	-0.159037	8.2227182	-2.078777	0.0667107	0.30542	-4.380256
PRR5-ARHG	0.1474674	7.0888965	2.0787224	0.0667166	0.30542	-4.380337
TMEM250	0.2159358	9.1981216	2.0785538	0.066735	0.30542	-4.380588
PM20D1	0.1758047	7.0155085	2.0780824	0.0667864	0.30556	-4.381289
GNL3	0.1737633	9.6938306	2.077858	0.0668109	0.30558	-4.381622

FKBP1A	0.2588218	10.433094	2.0775505	0.0668444	0.30564	-4.38208
SLC26A2	0.1853156	7.1663351	2.0771289	0.0668905	0.30575	-4.382706
MYL6B	-0.200973	11.141296	-2.076459	0.0669637	0.30588	-4.383702
MIR663B	0.1653587	6.9961433	2.0763806	0.0669723	0.30588	-4.383819
RRBP1	0.2049214	8.3340819	2.0761425	0.0669983	0.30588	-4.384173
ZNF613	-0.209464	7.910707	-2.075954	0.067019	0.30588	-4.384453
EXOG	-0.129911	7.1950803	-2.075924	0.0670222	0.30588	-4.384497
NABP2	0.2568086	9.3817209	2.0754237	0.067077	0.30598	-4.385241
BAG6	0.1318928	8.4216155	2.0752042	0.067101	0.30598	-4.385567
NPL	-0.138109	7.8470763	-2.075015	0.0671218	0.30598	-4.385849
PDCD10	-0.166829	8.5158837	-2.074706	0.0671557	0.30598	-4.386308
VPS11	-0.27807	7.6093946	-2.074308	0.0671993	0.30598	-4.386899
HYOU1	0.2691401	8.9802492	2.0739056	0.0672435	0.30598	-4.387497
SPAG9	0.1238089	8.2745393	2.0738717	0.0672472	0.30598	-4.387548
TUBG2	-0.172393	8.022236	-2.073701	0.0672659	0.30598	-4.387801
COPB2	0.1766001	10.202984	2.0736825	0.067268	0.30598	-4.387829
LGALS12	0.170791	7.0387088	2.0734806	0.0672902	0.30598	-4.388129
ZNF512	-0.196539	9.3451294	-2.073445	0.067294	0.30598	-4.388181
SH3RF1	-0.1675	6.9610361	-2.073259	0.0673145	0.30598	-4.388458
CCDC60	0.2065555	7.0769215	2.0732267	0.0673181	0.30598	-4.388506
PRSS3	-0.149183	6.8621192	-2.073036	0.0673391	0.30598	-4.38879
LOC1001285	-0.14174	6.8561043	-2.072364	0.067413	0.30622	-4.389788
IFI16	0.1775292	10.491518	2.0711812	0.0675432	0.30671	-4.391545
NUP155	0.1720984	8.4172575	2.0709991	0.0675633	0.30671	-4.391815
MARK3	0.1529715	7.6646935	2.0704625	0.0676225	0.30675	-4.392612
GPM6A	-0.150785	7.3038094	-2.070402	0.0676292	0.30675	-4.392702
EDEM1	0.2828157	9.5912137	2.0703613	0.0676337	0.30675	-4.392762
KCNN4	0.1370545	7.5288344	2.0698378	0.0676915	0.30691	-4.39354
TRAPPC9	0.1596209	7.1915278	2.0687152	0.0678157	0.30723	-4.395207
PPFIA3	0.2134846	7.0841278	2.0685028	0.0678392	0.30723	-4.395522
DHRS1	-0.196202	9.1521816	-2.068269	0.067865	0.30723	-4.395869
KAT2B	-0.143162	8.1723006	-2.068079	0.0678861	0.30723	-4.396151
GLO1	0.235821	12.657586	2.0680718	0.0678869	0.30723	-4.396162
GLT8D1	-0.216626	7.8892241	-2.067882	0.067908	0.30723	-4.396444
TNKS2	0.1886514	6.9393288	2.0678113	0.0679158	0.30723	-4.396549
MUTYH	-0.173049	7.7668664	-2.067679	0.0679304	0.30723	-4.396745
RPS17	-0.143196	13.946307	-2.066992	0.0680067	0.30748	-4.397765
TLR1	-0.307863	7.3515919	-2.066632	0.0680467	0.30757	-4.3983
C9orf64	-0.193243	7.1776749	-2.066334	0.0680798	0.30762	-4.398742
ARPC3	0.1663095	10.751845	2.0661409	0.0681012	0.30763	-4.399028
SBDSP1	0.2028566	8.5328641	2.0654182	0.0681815	0.30784	-4.4001
CBX7	0.2434594	8.3518732	2.0653274	0.0681916	0.30784	-4.400235
SYK	0.3692977	10.831927	2.0651428	0.0682122	0.30784	-4.400509
KCNMB4	-0.146156	8.5444511	-2.064763	0.0682544	0.30794	-4.401072
NRM	0.1383202	7.6263743	2.0645592	0.0682772	0.30794	-4.401375

TMEM184B	0.1719142	7.7240888	2.0643228	0.0683035	0.30794	-4.401726
EIF4G1	0.3340235	10.264021	2.0641319	0.0683248	0.30794	-4.402009
RAB9A	-0.136544	10.170108	-2.063945	0.0683456	0.30794	-4.402286
EVI2B	0.1742467	8.2080732	2.0638101	0.0683607	0.30794	-4.402486
ZNF138	-0.125643	7.3859056	-2.063496	0.0683957	0.30796	-4.402952
GNG13	0.1720439	6.9880779	2.0633931	0.0684072	0.30796	-4.403105
MTOR	0.3023041	10.08042	2.0627859	0.068475	0.30809	-4.404006
IKZF3	0.2036486	7.9399149	2.0627514	0.0684789	0.30809	-4.404057
SLC4A11	-0.123257	6.8349007	-2.062475	0.0685097	0.30814	-4.404466
GRIN2C	-0.145842	7.0129598	-2.061881	0.0685761	0.30834	-4.405347
EGR1	0.1913293	8.1853434	2.0615898	0.0686088	0.30839	-4.40578
C2orf69	-0.194326	8.8926434	-2.061245	0.0686473	0.30847	-4.40629
VARS2	-0.254366	9.5859997	-2.060965	0.0686787	0.30852	-4.406706
UBALD1	0.222107	7.3839028	2.0594231	0.0688517	0.30902	-4.408992
SGPL1	0.1330424	7.4831841	2.0591286	0.0688848	0.30902	-4.409429
MRPL14	-0.218537	10.450204	-2.058905	0.0689099	0.30902	-4.40976
CDK5RAP2	0.1503314	7.9185838	2.0584978	0.0689557	0.30902	-4.410364
KLHL21	0.1963929	7.7672653	2.058485	0.0689571	0.30902	-4.410383
ACTG1	0.3415873	13.167941	2.0581217	0.068998	0.30902	-4.410921
HOXB1	-0.210659	6.8697152	-2.058087	0.0690019	0.30902	-4.410972
LPAR6	-0.138789	6.811949	-2.058051	0.069006	0.30902	-4.411026
DHCR7	0.3500615	9.8379433	2.0580331	0.069008	0.30902	-4.411053
YWHAG	-0.235331	9.862204	-2.057985	0.0690134	0.30902	-4.411124
COL4A3	-0.202868	7.1046234	-2.057886	0.0690246	0.30902	-4.411271
LOC730202	-0.159416	7.6329287	-2.057216	0.0691	0.30927	-4.412264
TMEM169	0.1326168	6.8095808	2.0566254	0.0691666	0.30947	-4.413139
TRIM22	0.1281054	7.9826199	2.0560881	0.0692272	0.30964	-4.413935
NT5DC3	0.1666098	7.9894662	2.0559075	0.0692476	0.30964	-4.414202
LINC01364	0.1570233	6.9579937	2.0550559	0.0693438	0.30994	-4.415464
CELSR3	-0.174896	8.1947008	-2.05489	0.0693627	0.30994	-4.41571
STK40	0.2562327	8.6024704	2.0547467	0.0693788	0.30994	-4.415922
NUMA1	0.2110889	7.8280739	2.0543483	0.0694239	0.30997	-4.416512
SDHAP1	-0.139377	7.7242337	-2.054035	0.0694593	0.30997	-4.416976
SDCBP2	0.1412114	6.8835635	2.0539607	0.0694678	0.30997	-4.417086
CCDC58	-0.292975	9.2616489	-2.053896	0.0694751	0.30997	-4.417182
STRAP	0.1622998	11.870772	2.0537548	0.0694911	0.30997	-4.417391
KRTAP10-2	0.1427191	7.1594249	2.0533449	0.0695376	0.31004	-4.417998
PHTF2	0.1781116	7.3399543	2.0532384	0.0695496	0.31004	-4.418156
MRPL30	-0.14085	8.5348514	-2.052491	0.0696344	0.31033	-4.419263
ACAD9	-0.164859	9.7016922	-2.052164	0.0696716	0.3104	-4.419748
MT2A	0.373025	10.488191	2.0518435	0.069708	0.31045	-4.420222
LSM6	-0.254894	7.9831241	-2.05169	0.0697254	0.31045	-4.420449
THYN1	-0.126497	9.0442093	-2.051304	0.0697694	0.31055	-4.421021
ARHGAP21	0.177046	9.2004984	2.0505967	0.0698498	0.31081	-4.422067
NDUFAB1	-0.335328	11.866941	-2.049927	0.0699261	0.31092	-4.423059

ATP5G3	-0.199565	8.6019148	-2.049905	0.0699286	0.31092	-4.423091
TMEM208	-0.12164	8.8470317	-2.049825	0.0699377	0.31092	-4.423209
MAGED1	0.1543774	9.3104079	2.0489882	0.0700332	0.31125	-4.424448
NMRK1	-0.265159	7.460211	-2.048245	0.0701181	0.31133	-4.425547
NDUFAF7	-0.149986	8.5555249	-2.047825	0.0701661	0.31133	-4.42617
CEP164	0.1498171	7.8771967	2.0477116	0.0701791	0.31133	-4.426337
EMC4	-0.167246	10.64494	-2.047685	0.0701821	0.31133	-4.426377
OR2T6	0.1647403	6.9884507	2.0474531	0.0702087	0.31133	-4.42672
MPV17L	-0.150215	6.9023875	-2.047349	0.0702206	0.31133	-4.426874
LCP2	-0.129596	6.8852838	-2.047271	0.0702295	0.31133	-4.42699
NSRP1	0.2187901	7.8225748	2.0472299	0.0702342	0.31133	-4.42705
GPATCH2L	-0.131882	7.1316048	-2.047147	0.0702437	0.31133	-4.427173
NTMT1	-0.168152	7.9966321	-2.046147	0.0703582	0.31174	-4.428651
MFN2	0.154343	10.261857	2.0457064	0.0704088	0.31178	-4.429304
SNORA2B	-0.245589	7.1186714	-2.045576	0.0704238	0.31178	-4.429497
VAV2	0.169429	7.862218	2.0452832	0.0704574	0.31178	-4.42993
TNPO2	0.1767794	10.08427	2.0451742	0.0704699	0.31178	-4.430091
SLC2A5	0.2736659	12.448913	2.0451515	0.0704725	0.31178	-4.430124
GSS	0.2247349	8.2125882	2.0442397	0.0705773	0.31214	-4.431473
FGF18	0.1426256	7.2336937	2.0431061	0.0707078	0.31259	-4.433149
OR2A2	0.1367417	6.8886588	2.0429836	0.0707219	0.31259	-4.43333
IZUMO1	0.1239197	6.7653632	2.0425672	0.0707699	0.31268	-4.433946
IL10RB	-0.164303	8.0226397	-2.042444	0.0707841	0.31268	-4.434128
CCDC103	-0.147369	6.8481222	-2.042113	0.0708222	0.31275	-4.434616
TMEM18	-0.156378	7.8151375	-2.04162	0.0708792	0.31291	-4.435346
PLGRKT	-0.155665	9.8649683	-2.041384	0.0709064	0.31294	-4.435694
MED20	-0.195239	10.232602	-2.039858	0.0710829	0.31361	-4.43795
PCTP	-0.199807	7.2447076	-2.039504	0.071124	0.31361	-4.438473
CHCHD4	-0.199069	10.433409	-2.039431	0.0711324	0.31361	-4.438581
TCTN2	-0.131382	6.9092472	-2.039328	0.0711443	0.31361	-4.438733
SHMT2	-0.163533	11.858238	-2.038935	0.0711898	0.31366	-4.439313
SERPINB1	0.173518	6.8747797	2.0386836	0.071219	0.31366	-4.439685
LCMT1	-0.135353	9.4760088	-2.03866	0.0712217	0.31366	-4.439719
CXorf40A	-0.134939	8.1840867	-2.038344	0.0712584	0.31371	-4.440186
TOE1	-0.138894	7.9657419	-2.038208	0.0712742	0.31371	-4.440387
MGAT4B	0.1940702	7.5422479	2.0376965	0.0713336	0.31385	-4.441143
GGA2	-0.226405	9.3398143	-2.037432	0.0713644	0.31385	-4.441534
ERC2	-0.163871	7.0487721	-2.037334	0.0713758	0.31385	-4.441679
BARD1	0.271307	9.0184451	2.0371933	0.0713921	0.31385	-4.441886
RAD21	0.1326343	8.8714777	2.0368407	0.0714331	0.31393	-4.442407
STPG1	0.1989638	7.1157304	2.0362418	0.0715028	0.31414	-4.443291
ALYREF	0.2286397	9.2477386	2.0358849	0.0715444	0.31423	-4.443818
OVGP1	-0.130166	7.0944252	-2.035654	0.0715713	0.31425	-4.44416
MLLT1	-0.123497	6.8402847	-2.035212	0.0716229	0.31425	-4.444813
CYTH1	0.2018913	9.5417155	2.0351581	0.0716291	0.31425	-4.444892

LMNB1	0.3147745	8.8483033	2.0340864	0.0717542	0.31425	-4.446474
AOAH	-0.129867	7.033193	-2.033821	0.0717853	0.31425	-4.446866
PPWD1	0.1447146	8.587649	2.0337042	0.0717989	0.31425	-4.447038
CCDC13	0.202812	6.9205871	2.0337036	0.0717989	0.31425	-4.447039
GART	0.1363556	9.3494033	2.033676	0.0718022	0.31425	-4.44708
CDCA8	0.2062656	9.4546919	2.0336255	0.0718081	0.31425	-4.447154
TRAFD1	0.1534439	8.3885735	2.0336065	0.0718103	0.31425	-4.447182
EIF3J	0.2391085	9.9759834	2.0336025	0.0718108	0.31425	-4.447188
NBDY	-0.2056	10.824646	-2.033516	0.0718209	0.31425	-4.447316
SERINC1	0.1520131	7.8264869	2.0334106	0.0718332	0.31425	-4.447471
MIR1253	-0.196516	7.0024496	-2.033274	0.0718492	0.31425	-4.447673
MVD	0.2286917	8.3013247	2.0328733	0.0718961	0.31436	-4.448264
HSPD1	0.1360372	10.586455	2.0324838	0.0719417	0.31438	-4.448839
NDUFV2	0.2063643	11.788874	2.0322869	0.0719647	0.31438	-4.44913
TRIM26	0.3067651	8.8142506	2.0316797	0.0720359	0.31438	-4.450026
SRSF1	-0.247116	11.842042	-2.031623	0.0720426	0.31438	-4.45011
SLC16A14	0.1261053	6.7985191	2.0315638	0.0720495	0.31438	-4.450197
HOXB5	-0.147966	7.0636796	-2.031506	0.0720563	0.31438	-4.450283
MRPS15	-0.14817	10.975918	-2.031468	0.0720608	0.31438	-4.450338
CPSF1	-0.12765	9.9771752	-2.031361	0.0720733	0.31438	-4.450497
MIR638	0.1934024	6.9717385	2.0307898	0.0721404	0.3145	-4.451339
METTL1	-0.181461	8.5126385	-2.03075	0.072145	0.3145	-4.451397
C2orf15	-0.173467	7.851423	-2.030391	0.0721872	0.31454	-4.451927
CDON	0.1530834	6.9316588	2.0303035	0.0721975	0.31454	-4.452056
NMNAT3	-0.170495	7.844328	-2.029838	0.0722522	0.31469	-4.452743
ERCC6L	0.1374842	7.798217	2.0292282	0.072324	0.3149	-4.453642
REV1	-0.177028	8.793006	-2.029064	0.0723434	0.3149	-4.453885
DNAH1	-0.212443	7.2033216	-2.028713	0.0723846	0.31495	-4.454402
COA1	-0.164893	9.1543911	-2.02844	0.0724169	0.31495	-4.454806
CEP68	0.2134363	7.2794809	2.0284174	0.0724195	0.31495	-4.454838
EXOC8	-0.149844	6.9127776	-2.028043	0.0724636	0.31505	-4.455391
TRIM39	-0.138714	8.0233413	-2.027205	0.0725626	0.31538	-4.456627
S1PR4	0.1908614	8.1778991	2.0259975	0.0727052	0.31575	-4.458406
LRRC15	-0.180698	6.9973057	-2.025794	0.0727294	0.31575	-4.458707
FARSB	-0.179952	10.224977	-2.025653	0.072746	0.31575	-4.458914
HOXB7	-0.157383	8.4144048	-2.025649	0.0727465	0.31575	-4.45892
TESK2	-0.158302	7.500463	-2.025423	0.0727732	0.31575	-4.459253
PRDX4	-0.161803	11.452785	-2.025134	0.0728075	0.31575	-4.459679
GZF1	-0.17095	7.0888441	-2.02504	0.0728186	0.31575	-4.459818
IGFLR1	0.1316057	8.03214	2.0250217	0.0728208	0.31575	-4.459845
OLIG1	0.14073	6.837639	2.0246949	0.0728595	0.31583	-4.460326
CACTIN	0.1784317	7.4418627	2.0241994	0.0729183	0.31597	-4.461056
CASP4	-0.122262	7.0497531	-2.024056	0.0729353	0.31597	-4.461268
SLC35A3	0.2084836	8.452998	2.0238471	0.0729601	0.31598	-4.461576
TBC1D2B	0.249998	9.0711245	2.0232748	0.0730281	0.31609	-4.462419

GABRE	0.2146081	7.1392661	2.023269	0.0730287	0.31609	-4.462428
CYTOR	-0.169408	8.7054924	-2.02303	0.0730572	0.31612	-4.46278
GSTP1	-0.174946	8.118405	-2.021887	0.0731931	0.31661	-4.464464
RAB35	-0.189	9.2378329	-2.020789	0.0733239	0.31709	-4.46608
RIMBP3	-0.272121	7.0348124	-2.020499	0.0733586	0.31714	-4.466508
MBIP	-0.192603	8.6558304	-2.02023	0.0733907	0.31716	-4.466904
MRE11	0.1289294	7.5357955	2.0199293	0.0734266	0.31716	-4.467347
SPNS2	-0.135043	6.8956154	-2.019907	0.0734293	0.31716	-4.46738
FBXO31	0.2125665	8.9721609	2.0195236	0.073475	0.31727	-4.467944
NEO1	0.1285135	8.8196232	2.0191436	0.0735205	0.31737	-4.468504
UPP1	-0.176142	8.0206937	-2.018281	0.0736237	0.31772	-4.469774
A4GALT	-0.17535	9.0271318	-2.018088	0.0736468	0.31773	-4.470058
RPL7	-0.311188	11.264194	-2.017376	0.0737321	0.3179	-4.471105
CMSS1	0.1452814	10.014518	2.0170752	0.0737682	0.3179	-4.471549
TRAF5	-0.150258	7.1896051	-2.016893	0.0737901	0.3179	-4.471818
PIK3C2B	0.1802925	7.8706769	2.016715	0.0738114	0.3179	-4.472079
TFAMP1	-0.167043	7.1778181	-2.016679	0.0738157	0.3179	-4.472132
HSPA5	-0.207525	9.5865436	-2.016663	0.0738177	0.3179	-4.472155
LINC01451	-0.134054	6.8842007	-2.016421	0.0738468	0.31793	-4.472512
PMS2P2	-0.145995	7.5037572	-2.01557	0.073949	0.31828	-4.473764
VKORC1L1	-0.203579	8.8005494	-2.01532	0.0739791	0.31832	-4.474132
CBLB	0.2534435	8.6292063	2.0146935	0.0740545	0.31851	-4.475053
LRRC8B	0.2165185	9.2134132	2.0145783	0.0740683	0.31851	-4.475223
SBK1	-0.128318	7.7684119	-2.014118	0.0741238	0.31866	-4.475901
CFLAR	0.1803721	9.0068213	2.0134685	0.0742021	0.3189	-4.476855
TNFAIP8	0.2020518	7.8511844	2.0116245	0.0744249	0.31945	-4.479567
NTM	-0.156128	7.015116	-2.011609	0.0744267	0.31945	-4.47959
PRR7	0.1903841	7.9488529	2.0114921	0.0744409	0.31945	-4.479762
SDCBP	0.1433246	8.8450411	2.0114599	0.0744448	0.31945	-4.479809
BUD23	-0.141424	9.2404251	-2.011382	0.0744542	0.31945	-4.479924
YLPM1	0.1795867	7.0726444	2.0113184	0.0744619	0.31945	-4.480017
TRIB1	0.1886514	9.7236599	2.0094673	0.0746863	0.32007	-4.482739
LIAS	-0.178643	8.6543825	-2.009402	0.0746942	0.32007	-4.482835
C15orf39	0.203165	8.0558481	2.0093957	0.074695	0.32007	-4.482844
USE1	-0.21051	7.8071858	-2.009081	0.0747332	0.32007	-4.483307
KCNQ1OT1	-0.176314	7.34737	-2.009076	0.0747337	0.32007	-4.483313
KCNJ2	0.1526956	6.8849746	2.009037	0.0747385	0.32007	-4.483371
SLC25A17	-0.198959	8.8270324	-2.008502	0.0748035	0.32018	-4.484157
FIBP	-0.168446	9.0728742	-2.008329	0.0748246	0.32018	-4.484412
NRXN1	0.1775659	6.9130181	2.0082974	0.0748284	0.32018	-4.484458
RAP1A	0.1274045	7.5306303	2.0073257	0.0749467	0.32037	-4.485886
SIN3B	0.159874	7.415188	2.0069177	0.0749964	0.32037	-4.486485
DCTD	0.1442658	9.7743084	2.0069019	0.0749983	0.32037	-4.486509
MED7	-0.158959	8.0271541	-2.00684	0.0750058	0.32037	-4.486599
MAP1LC3B	0.1464738	8.7041287	2.0064292	0.0750559	0.32037	-4.487203

IL12RB1	-0.187017	7.5010997	-2.006352	0.0750654	0.32037	-4.487317
TUBGCP5	-0.148172	8.7321279	-2.006351	0.0750655	0.32037	-4.487318
MSMO1	-0.141799	8.5852962	-2.006165	0.0750881	0.32037	-4.487591
TMBIM1	-0.158419	8.6607619	-2.006033	0.0751042	0.32037	-4.487785
LYPD6B	-0.129917	6.855143	-2.005964	0.0751126	0.32037	-4.487886
RNPS1	0.2001662	9.1127172	2.0059364	0.075116	0.32037	-4.487927
FDXACB1	-0.148781	7.3512684	-2.005708	0.075144	0.3204	-4.488263
CLOCK	0.1525022	7.5087504	2.0047042	0.0752666	0.32083	-4.489737
SIDT2	-0.186203	10.28449	-2.004286	0.0753178	0.32095	-4.490351
CREB3	0.1517146	7.34109	2.0036957	0.07539	0.32117	-4.491218
HAVCR2	-0.157429	7.5483215	-2.002417	0.0755467	0.32174	-4.493095
CFAP47	0.1525188	6.9728311	2.00211	0.0755844	0.32181	-4.493546
QARS	-0.165042	12.954013	-2.001628	0.0756436	0.32191	-4.494253
ADIPOR1	0.1609504	9.4007851	2.0015565	0.0756524	0.32191	-4.494358
RIPK3	-0.18489	6.9688298	-2.000049	0.0758379	0.3226	-4.496571
PCYOX1L	-0.149039	7.8257198	-1.999473	0.0759089	0.32281	-4.497415
TMEM8A	0.1489259	7.3057272	1.9990905	0.075956	0.32285	-4.497977
RCL1	-0.165192	8.9684213	-1.998762	0.0759966	0.32285	-4.498459
MIR564	0.154221	6.87965	1.9985596	0.0760215	0.32285	-4.498756
HCG9	0.1939413	6.7981861	1.9983838	0.0760432	0.32285	-4.499013
VPS37A	-0.195702	7.6397873	-1.998345	0.076048	0.32285	-4.49907
CLIP3	-0.134724	6.91706	-1.998269	0.0760575	0.32285	-4.499182
TRDMT1	-0.147511	6.9778696	-1.998141	0.0760733	0.32285	-4.49937
TAAR8	0.1497583	6.9365398	1.997645	0.0761345	0.32292	-4.500097
KATNAL1	0.1182124	7.4194706	1.9975082	0.0761514	0.32292	-4.500298
HNRNPCL1	-0.136455	6.9896091	-1.997477	0.0761554	0.32292	-4.500344
MVP	0.2382157	8.0478155	1.9967303	0.0762477	0.32322	-4.501439
RIC8B	-0.174677	7.6466349	-1.996466	0.0762804	0.32326	-4.501826
IMPA2	0.1596304	9.6571583	1.996121	0.0763232	0.32335	-4.502332
SORD	-0.124601	7.0527206	-1.995403	0.0764122	0.32355	-4.503385
CFHR2	-0.188422	7.1028585	-1.995388	0.0764141	0.32355	-4.503407
HIRIP3	-0.2586	8.92529	-1.995014	0.0764604	0.32363	-4.503955
NCAPH	0.1524678	6.8095738	1.9948764	0.0764775	0.32363	-4.504157
ORAI1	0.1641445	7.6819264	1.9942939	0.0765499	0.32379	-4.505011
PITHD1	0.1971746	11.303429	1.9942134	0.0765599	0.32379	-4.505129
MAPKBP1	-0.141903	6.9511552	-1.99393	0.0765952	0.32384	-4.505545
SPRR1B	-0.169436	6.9503912	-1.993284	0.0766755	0.32409	-4.506491
DLEU2L	-0.200715	7.078136	-1.992693	0.076749	0.32418	-4.507357
ITSN1	0.1478579	7.5472595	1.9926665	0.0767524	0.32418	-4.507396
OSER1	-0.175503	10.267734	-1.992582	0.0767629	0.32418	-4.507519
OR4K2	-0.173255	6.8653255	-1.992275	0.0768012	0.32423	-4.507969
ZFC3H1	0.1563055	8.1390333	1.9921248	0.0768199	0.32423	-4.508189
MSH2	-0.170656	7.4850253	-1.991376	0.0769133	0.32453	-4.509286
ELK1	0.206785	9.4294766	1.990667	0.0770019	0.32475	-4.510325
RAD17	0.1713826	7.7939641	1.9905508	0.0770164	0.32475	-4.510495

UBA3	-0.158292	8.6386334	-1.990307	0.0770468	0.32475	-4.510852
RBM34	-0.236755	9.5862231	-1.990173	0.0770636	0.32475	-4.511049
FBXW11	0.1659477	9.2048184	1.9900648	0.0770772	0.32475	-4.511207
DBF4B	0.121702	6.8043456	1.9896468	0.0771294	0.32484	-4.511819
LOC285422	-0.152348	6.9549099	-1.989206	0.0771847	0.32484	-4.512466
FAM192A	0.1487734	8.1468804	1.9891891	0.0771868	0.32484	-4.51249
IVNS1ABP	0.1607034	9.2531992	1.9891824	0.0771876	0.32484	-4.5125
SRGN	0.1440697	11.683257	1.9887712	0.0772391	0.32497	-4.513102
MLEC	0.2720819	10.383359	1.9880634	0.0773279	0.32525	-4.514138
ILVBL	-0.159741	9.0291791	-1.987555	0.0773917	0.32529	-4.514883
LIN7B	-0.145961	7.1496336	-1.987507	0.0773978	0.32529	-4.514953
TTC9	0.1274593	7.6965191	1.9874078	0.0774102	0.32529	-4.515098
KPNB1	0.1238092	11.979793	1.9872747	0.0774269	0.32529	-4.515293
NLRX1	-0.123143	7.8163019	-1.985881	0.0776021	0.32592	-4.517332
TUBB3	-0.152302	8.4150929	-1.985719	0.0776225	0.32592	-4.517569
ZNF563	0.201992	7.2485175	1.9849809	0.0777155	0.32622	-4.51865
SNX29P2	-0.187548	8.4351251	-1.984722	0.0777482	0.32626	-4.519029
TRIM38	0.179782	7.4397361	1.9841557	0.0778196	0.3264	-4.519857
TUBBP6	-0.129011	6.9724292	-1.984097	0.077827	0.3264	-4.519943
COX16	-0.129981	8.2850615	-1.983763	0.0778692	0.3264	-4.520432
S100A10	0.1530381	8.6617795	1.9837005	0.0778771	0.3264	-4.520523
NGDN	-0.169557	8.9047038	-1.983369	0.077919	0.3264	-4.521008
NPIPB12	0.496995	10.764904	1.9832289	0.0779367	0.3264	-4.521213
CLECL1	-0.150513	11.508622	-1.983212	0.0779389	0.3264	-4.521239
SCYL3	-0.131486	7.7699683	-1.982984	0.0779677	0.32643	-4.521572
IPO5	0.183256	9.4633835	1.9817241	0.0781271	0.327	-4.523414
ZNF622	-0.17748	9.7604497	-1.980908	0.0782306	0.32726	-4.524607
ZAP70	-0.134654	6.9814059	-1.980895	0.0782323	0.32726	-4.524627
LTA4H	-0.189205	11.914721	-1.979894	0.0783593	0.32765	-4.526089
RAB3A	0.132894	6.9273444	1.9797993	0.0783714	0.32765	-4.526229
NSMCE1	0.1562966	9.523191	1.9794937	0.0784102	0.32772	-4.526675
ZNF480	0.1460964	7.4968784	1.9792553	0.0784405	0.32775	-4.527024
ATP5S	-0.132903	8.8578057	-1.978077	0.0785905	0.32792	-4.528745
IPO11	-0.227907	9.8065338	-1.978041	0.0785951	0.32792	-4.528799
RBM27	0.1472638	8.4643658	1.9778518	0.0786192	0.32792	-4.529075
NCLN	-0.243033	10.196817	-1.977758	0.0786312	0.32792	-4.529212
UBP1	0.2117285	10.398981	1.9777382	0.0786337	0.32792	-4.529241
COQ6	-0.119507	8.1887219	-1.97773	0.0786348	0.32792	-4.529253
GCLM	0.1337809	8.4305979	1.9775964	0.0786518	0.32792	-4.529448
UBQLN2	0.173597	9.7737264	1.9770696	0.078719	0.32792	-4.530218
WFS1	-0.20762	7.7008889	-1.977032	0.0787237	0.32792	-4.530272
HYAL3	-0.153133	7.8937063	-1.976628	0.0787754	0.32792	-4.530864
CBX4	0.2384961	8.2642902	1.9766084	0.0787779	0.32792	-4.530892
ATP5EP2	0.1410877	13.810989	1.9765109	0.0787903	0.32792	-4.531034
TAPBPL	-0.25114	7.7074994	-1.976506	0.078791	0.32792	-4.531042

SLC39A1	0.2249796	9.7438143	1.9763426	0.0788118	0.32792	-4.53128
MLANA	0.1449716	6.8134702	1.9761204	0.0788402	0.32792	-4.531605
ADM2	0.126414	6.8932827	1.976112	0.0788413	0.32792	-4.531617
PTH	0.1482665	6.96396	1.9759455	0.0788625	0.32792	-4.53186
RAPGEFL1	-0.165854	7.3633646	-1.975718	0.0788916	0.32795	-4.532192
ZNF786	-0.242856	8.6950605	-1.975265	0.0789496	0.3281	-4.532855
RIBC1	0.216801	7.0802506	1.9742957	0.0790737	0.32849	-4.53427
SNIP1	-0.184965	8.3628303	-1.974102	0.0790985	0.32849	-4.534553
SULT1A2	-0.143248	7.3079479	-1.974001	0.0791115	0.32849	-4.5347
MKLN1	0.4000846	9.3530228	1.9736654	0.0791545	0.32857	-4.53519
HTT	0.2163016	7.3126038	1.9733348	0.079197	0.32865	-4.535673
HOMEZ	-0.145143	7.0192868	-1.972979	0.0792427	0.32875	-4.536193
GDAP2	-0.178451	7.3948539	-1.972134	0.0793512	0.32911	-4.537426
RNF216	0.1319505	7.7463478	1.9719369	0.0793766	0.32912	-4.537714
FIZ1	0.1365197	7.8303223	1.9715191	0.0794303	0.32925	-4.538323
NANS	-0.199256	9.5152439	-1.971008	0.0794962	0.32939	-4.53907
RALBP1	-0.137652	9.0492997	-1.970834	0.0795186	0.32939	-4.539324
RCAN2	0.1673377	7.044091	1.9705763	0.0795517	0.32939	-4.539699
TNRC6C	0.1305715	6.8091513	1.9705581	0.0795541	0.32939	-4.539726
ZNF165	-0.158549	7.6493243	-1.97028	0.07959	0.32944	-4.540132
FOXP1	0.1174913	7.1709949	1.9700299	0.0796222	0.32948	-4.540497
ACTR10	-0.117052	9.9695109	-1.969627	0.0796742	0.3296	-4.541085
KLC3	-0.149305	6.9119756	-1.969449	0.0796972	0.32961	-4.541344
SGPP1	0.1987508	7.463917	1.9682303	0.0798547	0.33016	-4.543122
DDX10	0.2243699	9.9525383	1.9677268	0.0799198	0.33023	-4.543857
NUDT16L1	0.2579764	8.6326114	1.9675498	0.0799427	0.33023	-4.544115
BTF3L4	-0.136276	9.3693301	-1.967512	0.0799476	0.33023	-4.54417
ERMP1	0.1331845	7.9622399	1.9674012	0.079962	0.33023	-4.544332
ZNF767P	-0.246039	7.476276	-1.967213	0.0799863	0.33024	-4.544606
GPSM2	0.1215276	8.3316609	1.9666358	0.0800612	0.33046	-4.545448
NREP	-0.168425	9.2894856	-1.966249	0.0801113	0.33051	-4.546011
SSX2IP	-0.177647	7.4118923	-1.96618	0.0801203	0.33051	-4.546112
CREBRF	0.2038034	7.2900023	1.96477	0.0803035	0.33118	-4.548168
RNF26	0.1966975	8.130306	1.9634175	0.0804795	0.33177	-4.550139
AIF1	-0.124438	7.2423594	-1.963306	0.080494	0.33177	-4.550301
CBX5	0.175928	9.2016546	1.9630401	0.0805287	0.33182	-4.550689
NRROS	0.3024078	8.3283216	1.9615179	0.0807274	0.33243	-4.552907
SKAP2	0.1999807	8.8076363	1.9611292	0.0807783	0.33243	-4.553473
CHSY3	-0.137493	6.8599969	-1.961059	0.0807875	0.33243	-4.553576
ATF7IP2	-0.15631	7.050626	-1.960853	0.0808144	0.33243	-4.553876
FLVCR1	0.1757798	7.3664254	1.9608328	0.080817	0.33243	-4.553905
CASP6	-0.155411	7.2088523	-1.960735	0.0808298	0.33243	-4.554047
ZFR	-0.174223	10.070318	-1.960699	0.0808345	0.33243	-4.5541
ALB	-0.172864	7.3577192	-1.960246	0.0808938	0.33252	-4.55476
KIAA1024L	-0.186994	6.9629695	-1.960169	0.0809039	0.33252	-4.554871

TDP1	-0.127592	8.3334093	-1.959406	0.0810039	0.33284	-4.555983
C5orf15	-0.220711	9.889305	-1.958412	0.0811344	0.33328	-4.557431
PYGO2	0.2359621	7.5974169	1.9578945	0.0812023	0.33347	-4.558184
ZNF415	-0.145594	6.8383979	-1.957661	0.081233	0.33347	-4.558524
RELL1	-0.120392	6.9276262	-1.957544	0.0812484	0.33347	-4.558694
CMC2	-0.221352	11.438369	-1.95701	0.0813187	0.33366	-4.559471
IMP3	-0.167667	12.088575	-1.956823	0.0813433	0.33367	-4.559743
LOC1002882	0.1184697	6.9524981	1.9562884	0.0814137	0.33387	-4.560521
PGGT1B	-0.179378	7.0627043	-1.955961	0.0814568	0.33395	-4.560998
MRPS22	-0.182731	11.152368	-1.955656	0.081497	0.33402	-4.561441
H2AFJ	-0.116325	7.3240265	-1.954849	0.0816036	0.33431	-4.562616
RCHY1	0.1517175	7.96511	1.9547827	0.0816123	0.33431	-4.562712
CNGB1	-0.123946	7.0295207	-1.954374	0.0816662	0.33437	-4.563307
OTUD7B	-0.129154	7.1563813	-1.954315	0.0816741	0.33437	-4.563393
S100A2	-0.186983	6.8693227	-1.953736	0.0817506	0.33459	-4.564235
C10orf10	0.1526532	6.9480656	1.9532868	0.08181	0.33466	-4.564888
CASC4	0.2055566	7.9502255	1.9532519	0.0818146	0.33466	-4.564939
PDE1B	0.1347717	6.8871663	1.9520324	0.0819762	0.33523	-4.566712
PFDN5	-0.228508	12.52723	-1.951546	0.0820408	0.3354	-4.56742
SAT1	-0.168611	10.535581	-1.951113	0.0820982	0.33545	-4.568049
IPO4	0.3007321	9.0471672	1.9511103	0.0820986	0.33545	-4.568053
SMCP	0.1922444	7.0461396	1.9505834	0.0821686	0.3356	-4.568819
NBPF14	-0.160758	7.6281968	-1.95049	0.082181	0.3356	-4.568955
MID1IP1	0.1833117	9.2126621	1.9502581	0.0822118	0.33563	-4.569292
STMN3	-0.253434	7.3021699	-1.950091	0.082234	0.33563	-4.569535
DCUN1D4	-0.162451	8.0366396	-1.949775	0.0822761	0.33571	-4.569994
DFNA5	-0.194254	7.792625	-1.949183	0.0823549	0.33593	-4.570855
TRIM63	0.2033215	7.038037	1.9485994	0.0824326	0.33608	-4.571702
PBX1	-0.119542	6.8541823	-1.948558	0.0824381	0.33608	-4.571762
TMUB1	0.2675647	9.0889499	1.9483949	0.0824599	0.33608	-4.572
NCOR1	0.1782875	7.5994136	1.9479998	0.0825126	0.3362	-4.572574
PRELID1	0.2597082	11.310588	1.9478147	0.0825373	0.33621	-4.572843
HNRNPH3	0.1566777	8.742372	1.9476208	0.0825632	0.33622	-4.573124
APOBEC3G	-0.147591	9.5845602	-1.947381	0.0825953	0.33622	-4.573473
ZC3H12C	0.1769746	7.2769131	1.9472513	0.0826125	0.33622	-4.573661
PRMT9	-0.170897	8.091047	-1.947101	0.0826327	0.33622	-4.57388
SUPT4H1	-0.161119	8.2204659	-1.946727	0.0826826	0.33633	-4.574423
RNF217	-0.12464	6.707883	-1.945778	0.0828096	0.33675	-4.575801
ANKRD39	0.202842	8.7969712	1.9452957	0.0828742	0.33692	-4.576501
PLEKHN1	-0.188989	7.111264	-1.944853	0.0829335	0.337	-4.577145
CXCL3	0.1728148	7.1540656	1.9448058	0.0829398	0.337	-4.577213
HCN4	0.1366441	6.9791268	1.943896	0.0830619	0.33733	-4.578534
OR1L8	-0.186684	6.9377216	-1.943855	0.0830674	0.33733	-4.578593
GOT2	0.2487059	12.256535	1.9431672	0.0831598	0.3375	-4.579591
NTF4	-0.164623	6.9007698	-1.943062	0.0831739	0.3375	-4.579744

CSTF3	-0.138001	9.2748403	-1.943033	0.0831778	0.3375	-4.579786
SSTR2	-0.206151	8.627023	-1.941882	0.0833328	0.33801	-4.581457
RGS17	0.1140902	6.8511005	1.9416843	0.0833594	0.33801	-4.581744
ZNF48	-0.119277	6.99218	-1.941572	0.0833745	0.33801	-4.581907
ACSL5	-0.135449	8.0618249	-1.941006	0.0834507	0.33823	-4.582727
ACAD11	-0.204854	9.4818457	-1.940643	0.0834998	0.33824	-4.583254
ENO2	0.1296069	6.7040259	1.9405026	0.0835187	0.33824	-4.583458
DDX41	-0.191796	8.995198	-1.940207	0.0835586	0.33824	-4.583887
CCDC88B	0.1667885	7.2512137	1.9401123	0.0835714	0.33824	-4.584024
FER1L4	-0.126338	7.0245214	-1.939955	0.0835926	0.33824	-4.584252
B3GNT6	0.1581943	7.0597167	1.9396342	0.083636	0.33824	-4.584718
ARG2	-0.222349	7.9097842	-1.939627	0.0836369	0.33824	-4.584728
SERTAD2	0.2299017	10.331051	1.9396192	0.083638	0.33824	-4.58474
TKFC	0.1609993	7.6249145	1.9393405	0.0836757	0.3383	-4.585144
THAP1	-0.13456	7.6437146	-1.938771	0.0837527	0.33851	-4.585969
RBMX	0.157747	10.340049	1.9383779	0.0838059	0.33863	-4.58654
UBB	0.2021221	13.052535	1.9379234	0.0838675	0.33873	-4.587199
PPID	-0.164105	7.6083588	-1.937832	0.0838798	0.33873	-4.587331
CDKN2A	-0.162775	8.8978763	-1.937689	0.0838992	0.33873	-4.587538
PWWP2A	0.1295774	7.7882054	1.9374151	0.0839364	0.33875	-4.587936
SNORA40	-0.129329	6.8877072	-1.937254	0.0839582	0.33875	-4.588169
RNF166	-0.16852	7.3703942	-1.937137	0.0839741	0.33875	-4.588339
UTRN	-0.129255	6.9982595	-1.93647	0.0840647	0.33902	-4.589306
NCF4	-0.115683	7.3147207	-1.935895	0.0841428	0.33916	-4.590139
DHDDS	0.1426434	8.3419542	1.9358853	0.0841441	0.33916	-4.590153
ICMT	0.138963	8.4057103	1.9351196	0.0842482	0.33948	-4.591263
SUGCT	-0.157429	7.2909991	-1.934577	0.0843221	0.33969	-4.59205
SNORA10	-0.214364	8.2862985	-1.933253	0.0845026	0.34032	-4.593968
PTPMT1	-0.151396	9.8203541	-1.932708	0.084577	0.34045	-4.594757
DKFZP586I1	0.1429984	7.5606024	1.9326766	0.0845813	0.34045	-4.594802
KLC1	0.118661	8.9816747	1.9324616	0.0846107	0.34047	-4.595114
VMA21	0.1417435	10.716149	1.9319093	0.0846861	0.34068	-4.595914
MIEF2	-0.230709	7.1365491	-1.930959	0.0848163	0.34111	-4.597291
HILPDA	-0.245926	9.2178487	-1.93077	0.084842	0.34112	-4.597563
PAFAH1B3	-0.189382	9.2189472	-1.929739	0.0849834	0.34154	-4.599056
ING1	0.1202766	7.4291271	1.9296757	0.0849921	0.34154	-4.599148
WTAP	-0.116641	7.9758476	-1.929279	0.0850465	0.34161	-4.599721
PRSS36	0.1568002	7.2112781	1.9290025	0.0850845	0.34161	-4.600122
SETBP1	0.119877	7.281041	1.9288717	0.0851025	0.34161	-4.600311
FAM83D	0.151545	8.8492879	1.9287846	0.0851145	0.34161	-4.600437
MNT	0.266407	8.007457	1.9286977	0.0851264	0.34161	-4.600563
ACOX3	0.1377124	8.2230055	1.9280833	0.0852109	0.3418	-4.601452
PRORSD1P	-0.205669	7.0125332	-1.928002	0.085222	0.3418	-4.601569
IGF1	0.1749733	6.9280656	1.927839	0.0852445	0.3418	-4.601806
TSEN54	0.1946224	8.2503979	1.9275064	0.0852903	0.34189	-4.602287

FCER2	0.171771	8.7048849	1.9270573	0.0853521	0.342	-4.602937
SHISA5	0.2103663	9.9609184	1.9269544	0.0853663	0.342	-4.603086
KLHL18	0.1246715	8.4004213	1.9267017	0.0854011	0.34201	-4.603451
R3HCC1L	0.2761881	7.8515963	1.9264494	0.0854359	0.34201	-4.603816
FBXO44	-0.121824	6.9414041	-1.92644	0.0854371	0.34201	-4.603829
RPL4	0.1484931	13.397407	1.9259802	0.0855006	0.34212	-4.604495
GTF2F1	0.2831228	8.9141286	1.9257589	0.0855312	0.34212	-4.604815
LMAN1	0.2843963	8.4421323	1.9257179	0.0855368	0.34212	-4.604875
ZBTB43	0.2675625	7.7782509	1.9252595	0.0856001	0.34214	-4.605537
RBMY2FP	-0.168878	7.2596211	-1.92525	0.0856015	0.34214	-4.605552
CTU1	-0.174253	7.2883733	-1.925188	0.08561	0.34214	-4.605641
ASIC3	-0.137628	6.8761806	-1.92463	0.0856871	0.34235	-4.606447
THEM5	-0.134901	6.8956566	-1.923757	0.0858079	0.34272	-4.60771
ARHGAP39	-0.126678	6.8970857	-1.923625	0.0858262	0.34272	-4.607901
TMEM41A	0.1760923	7.9239022	1.9229086	0.0859254	0.34302	-4.608937
VENTXP1	-0.156552	7.2065192	-1.922291	0.0860111	0.34323	-4.609829
NET1	0.1684326	8.5984163	1.9221963	0.0860242	0.34323	-4.609966
APOF	-0.152583	6.9915898	-1.92173	0.0860889	0.34339	-4.61064
GIMAP8	-0.119971	6.9690848	-1.920948	0.0861976	0.34372	-4.61177
RASGRP3	-0.187558	10.788523	-1.920799	0.0862184	0.34372	-4.611985
UTP4	-0.165944	11.130044	-1.920124	0.0863123	0.344	-4.61296
SLC34A2	0.1319679	6.9375859	1.9198587	0.0863492	0.34405	-4.613344
NPIPB13	0.3271358	9.8369089	1.9192345	0.0864362	0.34431	-4.614246
POLE3	-0.227731	12.384829	-1.918773	0.0865006	0.34447	-4.614913
CASP2	0.1234995	8.9596576	1.9183979	0.0865529	0.34449	-4.615454
ZNF491	0.121793	6.8770268	1.9181187	0.0865919	0.34449	-4.615857
EIF1AX	-0.158936	8.305784	-1.918054	0.086601	0.34449	-4.615951
DEFB106A	-0.181052	6.9001512	-1.918051	0.0866014	0.34449	-4.615955
RFWD2	-0.118309	9.135879	-1.916764	0.0867813	0.34512	-4.617813
SNORD30	-0.20618	7.8036322	-1.916565	0.0868091	0.34513	-4.6181
RHOT2	0.273945	8.5430724	1.9163413	0.0868405	0.34516	-4.618423
OXR1	-0.1394	9.874788	-1.916156	0.0868664	0.34517	-4.618691
C7orf43	0.1829766	7.6213254	1.9151721	0.0870043	0.34557	-4.620111
USP37	0.1699847	7.7742678	1.9151001	0.0870144	0.34557	-4.620215
UTS2	-0.115935	7.9066452	-1.914493	0.0870996	0.34578	-4.621091
IQCC	-0.277729	8.5740219	-1.914385	0.0871147	0.34578	-4.621246
PCIF1	0.1402056	7.0139752	1.9141795	0.0871437	0.34579	-4.621543
LOC407835	0.2140025	8.041272	1.9140319	0.0871644	0.34579	-4.621756
GSTO2	-0.15364	7.0508353	-1.913353	0.0872598	0.34608	-4.622735
RBX1	-0.193242	11.913905	-1.912676	0.0873552	0.34636	-4.623713
ZNF500	0.1578708	7.5397845	1.9118328	0.0874739	0.34674	-4.624928
SMC1A	0.1303259	7.0358972	1.9109912	0.0875927	0.34711	-4.626142
FAM122A	0.1415466	7.3219327	1.9098455	0.0877545	0.34766	-4.627794
HNRNPDL	-0.275198	9.2443844	-1.909232	0.0878413	0.34783	-4.628678
KRCC1	-0.179084	7.8820708	-1.90908	0.0878629	0.34783	-4.628897

PPP1R15B	-0.127306	7.2086862	-1.909035	0.0878692	0.34783	-4.628961
BTG2	0.2532237	9.9056901	1.908485	0.0879471	0.34804	-4.629755
LOC1005063	0.2023154	6.9980682	1.9082719	0.0879773	0.34807	-4.630062
TTK	0.1695195	9.4190977	1.9080973	0.0880021	0.34807	-4.630314
GSTA1	0.1800376	6.9185206	1.9077559	0.0880505	0.34817	-4.630805
JARID2	0.149147	7.8827173	1.9067636	0.0881914	0.34854	-4.632235
PHC2	0.1632146	7.6576198	1.9067588	0.088192	0.34854	-4.632242
AARS2	0.1313817	8.2513379	1.9057023	0.0883423	0.34897	-4.633764
MAPK8IP3	0.2021996	7.8340107	1.9055578	0.0883628	0.34897	-4.633972
NPIPB5	0.4502531	9.4209693	1.9054899	0.0883725	0.34897	-4.63407
PI4KB	0.1225125	8.9664273	1.9051477	0.0884212	0.34906	-4.634563
RPL34P34	-0.145408	8.1312313	-1.904991	0.0884436	0.34906	-4.634789
OGT	-0.270007	9.6426516	-1.90391	0.0885977	0.34953	-4.636345
SLF1	-0.166163	7.8382616	-1.903826	0.0886097	0.34953	-4.636466
DNAJA2	-0.123686	11.530107	-1.903645	0.0886355	0.34954	-4.636726
SNRPG	0.1702195	13.366089	1.9031374	0.088708	0.34964	-4.637457
SUMO2	-0.160203	11.435076	-1.903121	0.0887104	0.34964	-4.637481
COL23A1	-0.115346	6.923969	-1.902731	0.088766	0.34977	-4.638042
ZFAND2B	-0.153314	8.7333915	-1.902319	0.088825	0.34991	-4.638636
INSIG2	0.124537	7.8413953	1.9019498	0.0888778	0.35002	-4.639166
ZEB1-AS1	0.1196424	7.611196	1.9016513	0.0889205	0.35004	-4.639596
EIF2S3	0.2155951	12.086707	1.9015622	0.0889333	0.35004	-4.639724
CCND3	-0.202059	12.416407	-1.901415	0.0889543	0.35004	-4.639936
LINC00167	0.1227706	6.8906855	1.9011703	0.0889894	0.35008	-4.640288
CEBPA	-0.123215	6.7926555	-1.900772	0.0890465	0.35021	-4.640861
RNF113A	-0.204015	8.5617069	-1.899842	0.0891799	0.35064	-4.642199
USP11	0.1399417	8.3691884	1.8989935	0.0893018	0.35103	-4.64342
RHBDD2	0.2123875	9.3720032	1.8987008	0.0893439	0.35103	-4.643841
TESC	-0.15056	9.0671699	-1.89865	0.0893512	0.35103	-4.643913
CER1	0.1243844	6.8945267	1.8983324	0.0893969	0.35112	-4.64437
DCAF7	0.1329463	9.8322477	1.8980927	0.0894314	0.35112	-4.644715
GPS2	0.2010441	8.4939504	1.8979947	0.0894455	0.35112	-4.644856
PPM1D	-0.310997	8.3642086	-1.897324	0.0895422	0.35135	-4.645821
PTGES3	-0.188707	10.741116	-1.897246	0.0895533	0.35135	-4.645932
LINC01561	-0.123796	6.8733597	-1.896969	0.0895933	0.35141	-4.646331
SDCCAG3	-0.16011	9.10983	-1.896747	0.0896253	0.35145	-4.64665
SENP3	0.1300488	7.249096	1.8960976	0.089719	0.35172	-4.647583
PGBD1	-0.117222	7.014868	-1.895531	0.0898008	0.35187	-4.648397
NDEL1	-0.125363	8.5213383	-1.894795	0.0899074	0.35187	-4.649456
LGALS9B	-0.130284	6.8919305	-1.894496	0.0899505	0.35187	-4.649885
ACTR6	-0.264423	9.8445673	-1.894468	0.0899545	0.35187	-4.649925
PGRMC1	0.1373091	10.284368	1.8943276	0.0899749	0.35187	-4.650127
MIR149	0.11983	6.9138985	1.894113	0.090006	0.35187	-4.650435
ZSWIM8	0.3171731	9.2094933	1.8941079	0.0900067	0.35187	-4.650443
TATDN1	-0.15138	8.5642215	-1.894065	0.0900129	0.35187	-4.650503

KAT8	-0.153624	8.5760672	-1.893991	0.0900237	0.35187	-4.650611
RAB13	-0.147063	7.1572996	-1.893513	0.090093	0.35187	-4.651298
DUSP7	0.147128	7.047003	1.8930627	0.0901582	0.35187	-4.651944
TPP1	0.3110005	9.0584281	1.8929452	0.0901753	0.35187	-4.652113
CASKIN2	0.135953	7.0519909	1.8928724	0.0901858	0.35187	-4.652217
FAM86C1	0.1830989	8.1458111	1.8927865	0.0901983	0.35187	-4.652341
CD79A	0.1538036	10.089489	1.8925773	0.0902287	0.35187	-4.652641
TMEM30A	0.1290026	9.1210793	1.8925411	0.0902339	0.35187	-4.652693
COASY	-0.13101	9.1249239	-1.892513	0.0902379	0.35187	-4.652733
SLC2A8	-0.17266	9.4278616	-1.892434	0.0902495	0.35187	-4.652847
PTAFR	0.1813907	8.4631992	1.892399	0.0902545	0.35187	-4.652897
GNG4	0.1358588	6.7566623	1.8923421	0.0902628	0.35187	-4.652979
ZNF718	-0.138947	6.9239247	-1.892335	0.0902638	0.35187	-4.652989
TP53	0.3446751	8.5842237	1.8919843	0.0903148	0.35197	-4.653493
OSBPL8	0.1574398	8.2755508	1.8914204	0.0903967	0.3522	-4.654303
DHODH	0.1420161	7.4636493	1.8910357	0.0904527	0.35232	-4.654855
SAMD4B	0.2437934	7.3984633	1.8903747	0.0905489	0.3526	-4.655804
EXOC5	0.155917	7.6773951	1.8898555	0.0906246	0.35271	-4.656549
MBD1	0.1682851	7.5185109	1.8898521	0.0906251	0.35271	-4.656554
CLCN2	-0.124922	7.0665072	-1.889237	0.0907148	0.35296	-4.657437
UBC	0.1214433	11.680594	1.8890785	0.0907379	0.35296	-4.657664
AGAP3	0.162918	7.8174114	1.8886666	0.090798	0.3531	-4.658256
PHEX	-0.15813	6.7982287	-1.888496	0.0908229	0.35311	-4.6585
CORO1C	-0.267956	8.5982666	-1.888297	0.0908519	0.35311	-4.658785
ZNF335	0.1556921	7.1235116	1.8881406	0.0908748	0.35311	-4.65901
SNORD59B	-0.131371	7.0279686	-1.888	0.0908953	0.35311	-4.659211
SFMBT1	0.1193133	7.6587446	1.887605	0.0909531	0.35321	-4.659779
CALM1	0.194201	10.795171	1.8874854	0.0909706	0.35321	-4.65995
NDC80	-0.214994	8.6578308	-1.88718	0.0910153	0.35322	-4.660388
NDUFAF2	-0.208199	11.302664	-1.887086	0.091029	0.35322	-4.660523
POLQ	0.2455913	9.1887981	1.8869575	0.0910479	0.35322	-4.660708
FGD1	-0.12689	6.710741	-1.886806	0.0910701	0.35322	-4.660925
ARL5B	0.1463972	7.477602	1.8862297	0.0911545	0.35345	-4.661751
C14orf159	0.1337079	9.7581055	1.8855349	0.0912564	0.35375	-4.662748
PRCD	-0.148331	6.8998405	-1.884858	0.0913557	0.35405	-4.663718
TBCC	-0.178849	8.176368	-1.88437	0.0914274	0.3542	-4.664418
SLC20A1	0.1896495	10.843271	1.8842583	0.0914438	0.3542	-4.664578
HLA-DQA2	-0.139948	7.0774854	-1.883677	0.0915294	0.35435	-4.665412
FBXL5	-0.127406	7.624549	-1.883665	0.091531	0.35435	-4.665429
C1orf50	-0.138529	9.4456105	-1.882325	0.0917284	0.35502	-4.667349
TIMM10B	0.1350642	7.9768387	1.8819397	0.0917852	0.35508	-4.667901
FOXO4	0.1298586	7.862871	1.8816821	0.0918232	0.35508	-4.668271
TSPYL6	-0.179751	7.0889418	-1.881482	0.0918528	0.35508	-4.668558
COPZ1	0.2658124	10.397591	1.8814174	0.0918623	0.35508	-4.66865
ANKRD12	0.1344885	7.9768928	1.8813871	0.0918668	0.35508	-4.668693

MAST4	-0.217995	7.4753184	-1.881026	0.0919201	0.3552	-4.66921
UXT	-0.122207	9.6642622	-1.880589	0.0919847	0.35529	-4.669837
TULP3	0.2054289	7.5629245	1.8803592	0.0920186	0.35529	-4.670166
C19orf47	0.1799981	7.1750554	1.8803171	0.0920249	0.35529	-4.670226
PM20D2	-0.241038	8.691457	-1.88013	0.0920526	0.35529	-4.670495
CYB561D1	0.1214749	7.9170584	1.880042	0.0920656	0.35529	-4.67062
GNL1	-0.273219	8.9186475	-1.87978	0.0921044	0.35534	-4.670996
PGM1	0.1492934	11.423312	1.8792376	0.0921846	0.35551	-4.671772
GPR146	-0.132059	6.9403746	-1.879155	0.0921969	0.35551	-4.671891
MOSPD2	0.1454477	7.5555822	1.8784602	0.0922998	0.35574	-4.672885
SP140	0.1414253	8.3071396	1.878427	0.0923047	0.35574	-4.672933
LOC728026	-0.122545	9.0535623	-1.877827	0.0923938	0.35596	-4.673792
ZNF45	0.1217108	7.8488014	1.8775724	0.0924316	0.35596	-4.674156
MED8	-0.115651	7.5834427	-1.877546	0.0924356	0.35596	-4.674195
LOC643896	-0.199045	6.9449643	-1.877052	0.0925089	0.35615	-4.674901
BYSL	0.148647	9.5838164	1.8767516	0.0925535	0.35623	-4.675331
DMD	-0.122651	7.0970081	-1.876308	0.0926194	0.35639	-4.675966
MIR604	-0.113477	6.9930739	-1.875956	0.0926718	0.3564	-4.676469
POLM	0.1817109	7.8054554	1.8758848	0.0926825	0.3564	-4.676572
HEG1	0.2318459	8.4831938	1.8757521	0.0927022	0.3564	-4.676761
ZMYM4	0.1653252	8.7677459	1.8756344	0.0927197	0.3564	-4.67693
TMEM170A	-0.151046	8.0930796	-1.874685	0.0928612	0.35673	-4.678288
ZNF561	-0.200273	6.9815293	-1.874608	0.0928726	0.35673	-4.678398
TMEM237	-0.177801	9.1117843	-1.874568	0.0928786	0.35673	-4.678455
GPC3	-0.123247	6.7554227	-1.874153	0.0929406	0.35687	-4.679049
GALNT2	0.1319733	7.2040849	1.8736327	0.0930183	0.35708	-4.679793
COMMD8	-0.17271	8.9432457	-1.873292	0.0930691	0.35718	-4.68028
VPS13A	0.1676218	7.6817681	1.8729069	0.0931267	0.3573	-4.680831
SNORD56	-0.209778	8.0011946	-1.872744	0.0931511	0.3573	-4.681065
ASL	-0.133348	7.0735957	-1.872354	0.0932094	0.35741	-4.681622
METTL7A	-0.218349	8.2696528	-1.872191	0.0932338	0.35741	-4.681854
LCLAT1	-0.145996	8.237109	-1.872027	0.0932584	0.35741	-4.68209
GRIK5	-0.15382	6.9443163	-1.871903	0.093277	0.35741	-4.682267
DENND1A	-0.137685	8.4201535	-1.871418	0.0933495	0.35754	-4.68296
NUS1	-0.211757	7.8816883	-1.871346	0.0933604	0.35754	-4.683064
MAIP1	-0.180385	10.165533	-1.870909	0.0934258	0.3577	-4.683687
PSMC5	-0.168139	11.15339	-1.870183	0.0935349	0.35798	-4.684725
PCID2	-0.118628	11.194501	-1.870099	0.0935475	0.35798	-4.684846
RECQL4	0.2106241	7.4994949	1.8698213	0.0935892	0.35798	-4.685242
UBTF	0.1214552	7.5728842	1.8696155	0.0936201	0.35798	-4.685536
ZNF747	0.1733158	7.2052716	1.8694863	0.0936395	0.35798	-4.685721
LRP1B	0.1149964	6.958996	1.8694371	0.0936469	0.35798	-4.685791
WDR36	0.1600979	9.4383215	1.8690079	0.0937114	0.35814	-4.686404
GLA	-0.144207	9.8605674	-1.868656	0.0937643	0.35824	-4.686907
WDR18	-0.223955	12.069605	-1.868351	0.0938103	0.35833	-4.687343

TMCO6	-0.188273	7.5599106	-1.868117	0.0938455	0.35834	-4.687677
RCAN3	-0.144831	7.2387668	-1.868003	0.0938627	0.35834	-4.68784
RRN3P1	-0.144191	7.1159221	-1.867437	0.0939479	0.35857	-4.688648
PRY	-0.13317	6.8968566	-1.866719	0.0940562	0.3588	-4.689674
PI16	0.1282646	6.969838	1.8666071	0.0940732	0.3588	-4.689834
DDX11	0.1505305	7.3210332	1.8664352	0.0940991	0.3588	-4.690079
AP4M1	-0.117177	6.9595911	-1.866381	0.0941073	0.3588	-4.690156
HLA-C	0.1195383	7.7106385	1.8661538	0.0941416	0.35884	-4.690481
TMEM201	0.1688302	7.6469275	1.8658086	0.0941938	0.35888	-4.690974
MIR632	0.2499556	7.0515416	1.8650937	0.0943019	0.35888	-4.691994
NT5C3B	-0.154469	8.4322792	-1.86504	0.09431	0.35888	-4.692071
TRIM16L	-0.156345	7.0450769	-1.865038	0.0943103	0.35888	-4.692074
RDH13	0.1617575	8.5888386	1.8649616	0.0943219	0.35888	-4.692183
SERPINB10	-0.134823	7.7024928	-1.864916	0.0943287	0.35888	-4.692248
RGR	-0.129959	7.0008179	-1.864778	0.0943496	0.35888	-4.692445
B3GNTL1	-0.168638	7.4213763	-1.864435	0.0944015	0.35888	-4.692934
PDCL3P4	-0.128117	7.0349172	-1.864359	0.0944131	0.35888	-4.693043
TAF15	0.4266855	10.433616	1.864358	0.0944132	0.35888	-4.693044
SNORD43	-0.158417	7.3395054	-1.864162	0.0944429	0.35888	-4.693324
TOGARAM1	-0.299877	7.9467391	-1.86392	0.0944796	0.35888	-4.69367
GANAB	0.1968602	9.4550411	1.8637012	0.0945127	0.35888	-4.693982
HNRNPK	0.1466636	9.921773	1.8636774	0.0945164	0.35888	-4.694016
LRP11	0.1572086	7.7880337	1.8635284	0.0945389	0.35888	-4.694228
HLA-A	0.2226262	11.864408	1.8634773	0.0945467	0.35888	-4.694301
TRAM1	0.2456164	12.296505	1.86327	0.0945781	0.35891	-4.694597
AIG1	-0.142755	8.1646921	-1.863093	0.094605	0.35892	-4.69485
SERPINE1	-0.159915	7.0206227	-1.862271	0.0947298	0.35921	-4.696023
STPG3	0.1340425	6.8235684	1.8622621	0.0947312	0.35921	-4.696035
PHGDH	-0.243745	12.930737	-1.862008	0.0947698	0.35926	-4.696398
FAM167A	-0.128145	7.4348722	-1.861732	0.0948117	0.35933	-4.696791
RPLP1	-0.172068	13.066992	-1.860989	0.0949248	0.35966	-4.697851
SLC43A2	-0.222736	7.661422	-1.860798	0.0949538	0.35968	-4.698123
RIOX2	-0.137095	7.3578918	-1.860121	0.095057	0.35986	-4.699089
NFXL1	-0.157114	8.7411894	-1.860068	0.095065	0.35986	-4.699164
GPR182	0.1334513	7.0243034	1.8600096	0.095074	0.35986	-4.699247
DGKE	0.1192469	6.7786448	1.8595459	0.0951447	0.35998	-4.699909
TMEM110	-0.161162	7.1031987	-1.859265	0.0951875	0.35998	-4.700309
CCDC12	-0.172519	9.8596016	-1.859085	0.095215	0.35998	-4.700566
TAF13	0.112775	7.1648566	1.8590599	0.0952189	0.35998	-4.700601
ZNF281	0.1805823	8.6127517	1.8589849	0.0952303	0.35998	-4.700708
PPP4R1L	-0.177534	6.8843689	-1.857744	0.0954199	0.3606	-4.702476
NEK8	-0.167736	7.9845349	-1.857564	0.0954474	0.36061	-4.702733
SNORA29	0.1419799	7.021414	1.8571437	0.0955118	0.36067	-4.703332
CHERP	0.1597589	8.2044684	1.8571434	0.0955119	0.36067	-4.703333
PARP11	0.1316536	7.7649594	1.8569079	0.0955479	0.36071	-4.703668

SSRP1	0.1608413	9.1028725	1.8566716	0.0955841	0.36076	-4.704005
CCNL1	-0.195427	8.2881026	-1.85623	0.0956518	0.36085	-4.704634
CCR5	0.1512353	6.9875529	1.8561824	0.0956591	0.36085	-4.704702
NSUN5P1	-0.148191	7.2248349	-1.855619	0.0957456	0.36109	-4.705505
AFG1L	-0.150296	6.8806932	-1.853361	0.0960925	0.36217	-4.708719
SNORA61	-0.258772	10.428202	-1.853067	0.0961379	0.36217	-4.709138
TCTEX1D4	0.1232036	6.9147528	1.8529651	0.0961536	0.36217	-4.709283
LDLR	0.1746934	11.198921	1.8529582	0.0961546	0.36217	-4.709293
ACBD4	-0.134758	7.1406241	-1.852952	0.0961555	0.36217	-4.709302
COX4I1	-0.137196	13.725623	-1.852775	0.0961828	0.36217	-4.709553
PPTC7	0.1893891	8.3619283	1.8523257	0.0962521	0.36234	-4.710194
ATP2B3	-0.126658	6.9169473	-1.851902	0.0963175	0.36245	-4.710796
MRPS33	-0.114776	10.282799	-1.851658	0.0963552	0.36245	-4.711144
RHEB	-0.137004	10.984349	-1.851577	0.0963677	0.36245	-4.711259
TRPM3	-0.13919	6.9219153	-1.851497	0.09638	0.36245	-4.711373
MYO6	-0.160598	6.7567581	-1.851043	0.0964502	0.36256	-4.712019
TROAP	0.1815235	8.7296238	1.8509804	0.0964598	0.36256	-4.712108
FZD4	0.1315401	6.7802268	1.8508125	0.0964857	0.36257	-4.712347
HAUS1	-0.303678	9.3542156	-1.850375	0.0965534	0.3627	-4.712969
FBXL14	0.1323234	6.9242589	1.850258	0.0965715	0.3627	-4.713136
WBP11P1	0.126907	7.0098913	1.8496272	0.0966691	0.36298	-4.714033
BHLHB9	-0.141445	6.8876006	-1.849301	0.0967196	0.36307	-4.714497
EXOC3L4	-0.121845	6.8240929	-1.84898	0.0967694	0.36317	-4.714954
ALG13	-0.137122	8.2358125	-1.848528	0.0968395	0.36333	-4.715597
IGBP1	-0.156964	9.5681751	-1.84739	0.0970161	0.3639	-4.717215
SNX30	0.1225826	7.9282119	1.8471126	0.0970592	0.36393	-4.717609
C12orf40	-0.145293	7.0303343	-1.847016	0.0970742	0.36393	-4.717746
TNXA	0.1437347	6.9869943	1.8458225	0.0972599	0.36454	-4.719442
CCR7	0.210089	11.494691	1.8455566	0.0973013	0.3646	-4.71982
HNRNPA0	0.135955	10.804636	1.8452443	0.0973499	0.36469	-4.720264
MACC1	-0.131784	6.8323978	-1.844675	0.0974387	0.36474	-4.721073
IL24	0.1338149	7.2683937	1.8446487	0.0974428	0.36474	-4.72111
RABL3	0.1896001	8.3692272	1.8444781	0.0974694	0.36474	-4.721353
MMP10	0.1183378	6.8307444	1.844465	0.0974715	0.36474	-4.721371
GET4	0.1540168	8.3616884	1.8443574	0.0974883	0.36474	-4.721524
SNX16	-0.19821	8.0966322	-1.844068	0.0975335	0.36474	-4.721936
ZNF692	-0.14023	7.7344823	-1.844026	0.09754	0.36474	-4.721995
KCTD7	0.1694089	7.3519202	1.8434442	0.0976309	0.36486	-4.722821
TTLL5	-0.123922	8.1993256	-1.843396	0.0976385	0.36486	-4.72289
MEOX1	0.1905141	6.9383309	1.8433023	0.097653	0.36486	-4.723023
UQCRB	-0.170263	8.8820306	-1.843182	0.0976718	0.36486	-4.723193
PKHD1L1	-0.176856	7.563371	-1.843012	0.0976985	0.36487	-4.723436
SLAMF8	0.1111648	6.8187085	1.8428514	0.0977235	0.36487	-4.723663
GPR180	0.1481792	7.8697748	1.8425804	0.0977659	0.36493	-4.724048
C19orf71	0.2017521	7.0483426	1.8423909	0.0977956	0.36495	-4.724317

DHX16	0.2449964	9.6379232	1.8417238	0.0979001	0.36519	-4.725264
FGF7P3	-0.131153	6.836026	-1.841662	0.0979097	0.36519	-4.725352
NOC2L	0.3052496	8.2044088	1.8413641	0.0979564	0.36527	-4.725775
CYS1	0.1243826	6.791755	1.8407591	0.0980513	0.36544	-4.726634
NFYC	0.187301	9.3338608	1.8405719	0.0980807	0.36544	-4.726899
DBN1	-0.1402	6.8314578	-1.840446	0.0981004	0.36544	-4.727078
TP63	0.1278269	9.0326566	1.8403648	0.0981132	0.36544	-4.727193
LOC1001284	-0.172913	7.2962718	-1.840278	0.0981269	0.36544	-4.727317
ST3GAL1	-0.115561	6.9896096	-1.839739	0.0982115	0.36566	-4.728082
FOXP4	-0.151142	6.9777362	-1.839508	0.0982478	0.3657	-4.72841
PLPP1	-0.122082	7.4668937	-1.838457	0.0984132	0.36609	-4.729901
ARF1	0.171861	8.9418804	1.8382877	0.0984398	0.36609	-4.730141
FBRS	0.2459695	8.2191869	1.838229	0.098449	0.36609	-4.730224
WDR41	-0.242073	8.823002	-1.838206	0.0984526	0.36609	-4.730256
CNPPD1	0.137298	8.5605001	1.8378616	0.0985069	0.3662	-4.730745
SFXN4	-0.143653	8.7636227	-1.837486	0.0985661	0.36626	-4.731278
TEPSIN	-0.146624	7.0864314	-1.837403	0.0985792	0.36626	-4.731396
CDC20	-0.24145	11.665613	-1.83728	0.0985987	0.36626	-4.731571
CROCCP3	-0.112748	6.8552713	-1.836807	0.0986732	0.36641	-4.732241
GLT1D1	0.1983844	7.0195447	1.8367045	0.0986894	0.36641	-4.732386
ZNF668	-0.187273	8.8025804	-1.836547	0.0987142	0.36641	-4.732609
UNC13B	-0.114924	6.9304354	-1.836392	0.0987388	0.36641	-4.73283
DOHH	0.1611539	7.8542492	1.8358019	0.098832	0.36666	-4.733666
MYO3B	-0.182517	7.5226947	-1.835514	0.0988774	0.36667	-4.734074
FBXO4	-0.144721	7.7093141	-1.835479	0.0988831	0.36667	-4.734124
DBF4	-0.115632	6.9834016	-1.83476	0.0989969	0.36699	-4.735144
FBXO22	-0.157355	8.6692618	-1.834117	0.0990986	0.36728	-4.736054
MIEN1	-0.125614	7.3088839	-1.833713	0.0991627	0.36742	-4.736627
NDUFB3	0.1576828	12.300863	1.8332261	0.0992399	0.36754	-4.737317
TTC21A	-0.154068	7.2709437	-1.833198	0.0992444	0.36754	-4.737357
MRRF	-0.118898	8.3911866	-1.832686	0.0993257	0.36775	-4.738082
TNFSF10	-0.122663	6.8422045	-1.832306	0.0993859	0.36788	-4.73862
FKBP15	0.2093448	8.2526219	1.8318554	0.0994576	0.36805	-4.739258
FAM234A	0.2227166	8.1010863	1.831602	0.0994979	0.3681	-4.739617
DUSP18	0.2077855	7.2500943	1.8313069	0.0995448	0.36815	-4.740035
DNMBP-AS1	0.1088547	6.7955567	1.8312005	0.0995618	0.36815	-4.740186
XXYLT1	-0.194747	8.919591	-1.830869	0.0996145	0.36821	-4.740655
ATP5H	0.144351	12.839709	1.830781	0.0996286	0.36821	-4.74078
NLGN2	-0.141669	7.2893923	-1.830081	0.0997401	0.36853	-4.741772
AK8	0.1347247	7.0701406	1.829752	0.0997926	0.36863	-4.742237
C16orf72	0.1512785	8.0879628	1.8289668	0.0999179	0.369	-4.743348
AQP7P1	0.2116458	7.0353332	1.8285563	0.0999834	0.36915	-4.74393
CYP39A1	-0.13063	7.3012857	-1.828043	0.1000654	0.36936	-4.744655
IQGAP3	0.1519108	7.2481966	1.8278775	0.1000919	0.36937	-4.74489
SNORD34	-0.195076	7.5650684	-1.827553	0.1001438	0.36946	-4.745349

CHMP4A	-0.179722	9.6358705	-1.826877	0.100252	0.36977	-4.746305
AIM2	-0.128028	8.6210533	-1.826414	0.1003262	0.36981	-4.74696
GOT1L1	0.1439661	7.0056314	1.8262197	0.1003574	0.36981	-4.747236
MAN2B1	0.2340282	8.2653553	1.8261307	0.1003717	0.36981	-4.747361
G6PC	0.1502602	7.0368266	1.8259406	0.1004022	0.36981	-4.74763
BBS10	0.1612766	7.4784492	1.8258733	0.100413	0.36981	-4.747725
RPS4Y1	0.1595771	13.185899	1.8257435	0.1004338	0.36981	-4.747909
PDIK1L	0.1365276	8.0057319	1.8256582	0.1004475	0.36981	-4.74803
EPHX3	-0.115488	6.8040892	-1.825553	0.1004644	0.36981	-4.748178
IPO13	0.1665323	7.7902171	1.8253667	0.1004943	0.36981	-4.748442
KIAA1191	-0.126354	9.368833	-1.825231	0.1005161	0.36981	-4.748634
ANXA2P2	-0.229892	14.098858	-1.824866	0.1005746	0.36993	-4.74915
MIR30B	0.1330403	6.8698983	1.823862	0.1007361	0.37043	-4.75057
ASB7	-0.107723	7.1160365	-1.822899	0.1008912	0.37074	-4.751931
LINC01538	0.2068238	7.0558977	1.8228633	0.1008969	0.37074	-4.751981
RAET1E	-0.151842	6.9145946	-1.822862	0.100897	0.37074	-4.751982
OCIAD2	-0.150723	9.8909942	-1.82253	0.1009506	0.37085	-4.752452
NUDT13	-0.12996	6.8872318	-1.821822	0.1010648	0.37098	-4.753452
DFFA	0.2644152	9.3184119	1.8217174	0.1010817	0.37098	-4.7536
LYRM7	0.2068705	8.8715394	1.8217011	0.1010843	0.37098	-4.753623
NOCT	-0.231559	8.746831	-1.821668	0.1010897	0.37098	-4.753671
LETM1	0.1268526	8.4475798	1.8212588	0.1011557	0.37113	-4.754248
LINC00518	-0.108925	6.9098384	-1.820933	0.1012084	0.37123	-4.754709
CABIN1	0.1925499	7.6557193	1.8207226	0.1012424	0.37126	-4.755006
CLIC4	-0.130198	9.744795	-1.820184	0.1013294	0.37149	-4.755766
RBM12	0.112564	8.996869	1.8197257	0.1014036	0.37153	-4.756414
CLCC1	0.1173559	7.7758418	1.8196823	0.1014107	0.37153	-4.756475
PRKD2	0.1310655	7.2805803	1.8196472	0.1014164	0.37153	-4.756525
PLP2	-0.128387	7.3396618	-1.819369	0.1014614	0.3716	-4.756918
P2RY10	-0.116702	8.2217546	-1.819098	0.1015053	0.37167	-4.7573
LINC01210	-0.153633	6.9048511	-1.818606	0.101585	0.37187	-4.757995
TMEM109	0.2397136	9.9750685	1.818129	0.1016624	0.37206	-4.758668
PNKD	0.2238718	8.5352243	1.817481	0.1017676	0.37235	-4.759583
LOC285696	-0.200357	7.1745938	-1.817229	0.1018086	0.37241	-4.759939
PUSL1	0.1834577	8.3708053	1.8163623	0.1019495	0.37283	-4.761162
ITGA9	0.190431	7.0878145	1.8159454	0.1020173	0.37298	-4.76175
OR10J1	0.1194123	6.955151	1.8154852	0.1020923	0.37316	-4.762399
C11orf71	0.1806846	7.1828024	1.8152928	0.1021236	0.37318	-4.762671
AVPR1B	-0.181298	6.9103417	-1.814789	0.1022057	0.37325	-4.763381
SMPDL3A	-0.1342	7.7152784	-1.814722	0.1022166	0.37325	-4.763476
BACE1	0.1147319	6.7669784	1.8147089	0.1022188	0.37325	-4.763495
SNX33	-0.122688	7.2593724	-1.814459	0.1022596	0.37331	-4.763847
IRS1	0.1619992	7.1945372	1.8135566	0.1024069	0.37356	-4.76512
MZT2B	0.1548309	6.9792154	1.8135366	0.1024102	0.37356	-4.765148
PRKCI	-0.204811	7.8815005	-1.813453	0.1024238	0.37356	-4.765266

CETP	-0.133059	7.3435681	-1.813414	0.1024303	0.37356	-4.765321
DENND4B	0.1915794	8.6549057	1.8129986	0.1024981	0.37371	-4.765906
KANSL1	0.1260901	8.9508085	1.8128105	0.1025289	0.37371	-4.766172
MTFR2	-0.119748	7.9133771	-1.81268	0.1025502	0.37371	-4.766356
GOLGB1	0.1696157	7.6614253	1.812515	0.1025772	0.37372	-4.766588
DACH1	-0.117477	6.9396945	-1.811773	0.1026987	0.37406	-4.767634
LPIN1	0.1437311	8.8487097	1.8116236	0.1027232	0.37406	-4.767845
TUBA4A	-0.164258	10.402273	-1.81136	0.1027663	0.37413	-4.768216
UNC93B1	0.193049	8.3455586	1.8105716	0.1028957	0.3745	-4.769327
TERC	-0.148948	7.0677826	-1.810194	0.1029576	0.37454	-4.769859
AASDHPPT	0.1296837	9.7595723	1.8101939	0.1029577	0.37454	-4.769859
ZFR2	0.1259623	6.8983827	1.809706	0.1030378	0.37474	-4.770547
RPS6KB1	0.2147098	9.525127	1.8091416	0.1031306	0.37489	-4.771342
TPRA1	0.1684246	8.2134189	1.8089964	0.1031545	0.37489	-4.771546
SPINT3	-0.12149	6.9443234	-1.808989	0.1031556	0.37489	-4.771556
NME4	0.1885579	10.81313	1.8086608	0.1032097	0.37496	-4.772019
SPOP	0.1918299	10.787265	1.8085588	0.1032265	0.37496	-4.772163
WDR91	0.1580831	8.1414582	1.8082181	0.1032825	0.37507	-4.772643
ARMC1	-0.178289	10.060395	-1.807993	0.1033195	0.37511	-4.772959
SERHL2	-0.133457	6.9274062	-1.807511	0.103399	0.37525	-4.773638
ZNF768	0.1768779	7.7502028	1.8074444	0.10341	0.37525	-4.773732
PTGES3L-AA	0.1244234	9.3687889	1.8070092	0.1034818	0.37526	-4.774345
CDK2AP1	-0.263228	9.5300773	-1.806953	0.1034911	0.37526	-4.774424
PSMD2	0.191185	10.255177	1.8069009	0.1034997	0.37526	-4.774497
SRSF10	0.125014	8.3752686	1.8063866	0.1035845	0.37526	-4.775221
ZBTB14	-0.135768	8.5553077	-1.806287	0.103601	0.37526	-4.775361
CIZ1	-0.166368	6.939731	-1.806284	0.1036014	0.37526	-4.775365
MCM3AP	0.2401402	9.5757316	1.8062728	0.1036033	0.37526	-4.775381
AGT	0.1492262	6.7937842	1.8061792	0.1036188	0.37526	-4.775513
NR2C1	-0.126926	8.2191886	-1.805965	0.1036542	0.3753	-4.775815
SLMAP	0.1899409	9.1379959	1.8056933	0.1036991	0.37537	-4.776197
GIT1	0.1482987	7.6074432	1.8051633	0.1037867	0.37559	-4.776943
ERH	0.2104035	11.872109	1.8048322	0.1038415	0.37569	-4.777409
FOXI2	0.1455147	6.7537022	1.8046861	0.1038657	0.37569	-4.777614
ARPC1A	0.2294433	11.346878	1.803564	0.1040516	0.37617	-4.779193
WIPF2	0.1250062	6.98437	1.8034958	0.1040629	0.37617	-4.779289
TUBAL3	0.1345507	7.0003652	1.8032697	0.1041004	0.37617	-4.779607
TGFBI	-0.135567	7.0034697	-1.803263	0.1041015	0.37617	-4.779616
SRP68	0.1810478	9.7846211	1.8030793	0.104132	0.37619	-4.779875
MRPL34	0.2064027	11.02998	1.8029228	0.1041579	0.37619	-4.780095
FAM160A2	0.1634656	7.9468417	1.8023551	0.1042522	0.37644	-4.780893
SNX15	-0.129652	7.2692002	-1.802028	0.1043065	0.37654	-4.781353
ZNF326	0.1308069	7.328413	1.8018068	0.1043433	0.37658	-4.781664
FBXW7	0.1377514	7.7697904	1.8012117	0.1044423	0.3768	-4.782501
SNORD48	-0.183335	7.5223959	-1.801124	0.1044569	0.3768	-4.782624

MAX	-0.111945	7.2670412	-1.800457	0.1045679	0.37704	-4.783561
ZBTB8OS	-0.139787	7.9841159	-1.800408	0.104576	0.37704	-4.78363
SPO11	-0.119605	6.9728422	-1.80026	0.1046008	0.37704	-4.783839
GMIP	0.137211	7.9427142	1.7997831	0.1046802	0.37724	-4.784509
HDAC1	-0.133948	12.870133	-1.79938	0.1047475	0.37728	-4.785075
GTF2A2	0.1926023	11.843416	1.7992214	0.1047739	0.37728	-4.785298
LGALS14	-0.132644	7.3297874	-1.799207	0.1047763	0.37728	-4.785318
UBE3B	0.1436768	7.6125783	1.7990969	0.1047947	0.37728	-4.785473
NDUFA1	0.161843	12.904406	1.7988231	0.1048404	0.37735	-4.785857
LOC401261	-0.164352	7.653116	-1.798616	0.104875	0.37738	-4.786148
TRMO	-0.123624	8.5114262	-1.798098	0.1049616	0.37758	-4.786877
METTL6	-0.181766	7.3960918	-1.797785	0.1050139	0.37758	-4.787316
ARMC9	0.1722359	7.095096	1.7977609	0.1050179	0.37758	-4.787349
MYO1C	0.1577092	7.446281	1.797664	0.1050341	0.37758	-4.787486
XPNPEP1	-0.133696	11.293431	-1.797493	0.1050627	0.37759	-4.787726
TRIP11	0.1608793	7.8305446	1.797017	0.1051424	0.37774	-4.788394
P4HA2	-0.114382	7.5747087	-1.79694	0.1051552	0.37774	-4.788502
PIGT	0.1839695	9.0962673	1.7964823	0.1052319	0.37792	-4.789145
TTC31	0.1514488	8.3189962	1.7961802	0.1052825	0.37801	-4.789569
LYSMD1	-0.136017	7.0792451	-1.795968	0.1053181	0.37804	-4.789867
REEP5	0.1620207	9.3591001	1.7953512	0.1054216	0.37832	-4.790733
DMTF1	-0.124725	8.8391532	-1.795078	0.1054675	0.37837	-4.791117
POC1A	-0.228713	9.4017189	-1.794819	0.1055109	0.37837	-4.79148
SEC13	-0.159277	9.0667196	-1.794812	0.1055122	0.37837	-4.79149
CCNT1	0.1291409	8.5453842	1.7945892	0.1055496	0.37841	-4.791803
ZNF439	-0.13576	7.7230294	-1.794131	0.1056266	0.37859	-4.792446
FLVCR2	0.1139202	7.7708379	1.7933532	0.1057574	0.37897	-4.793537
DCLRE1A	-0.203249	7.6944277	-1.792969	0.105822	0.3791	-4.794075
GGCX	-0.158872	7.2235372	-1.792423	0.1059142	0.37926	-4.794842
KXD1	0.1852306	9.8890622	1.7924054	0.1059171	0.37926	-4.794866
PNO1	-0.280839	9.3287102	-1.791513	0.1060677	0.37965	-4.796119
SAMD15	0.1102238	7.6560891	1.7913732	0.1060912	0.37965	-4.796314
SBDS	-0.290277	8.8534812	-1.791177	0.1061244	0.37965	-4.79659
MAPRE1	0.1732338	12.051043	1.7911401	0.1061305	0.37965	-4.796641
CDH16	0.1261062	6.908637	1.7904187	0.1062524	0.37999	-4.797652
MOV10	0.1754812	7.5469587	1.7901836	0.1062922	0.38001	-4.797982
SUCLG1	-0.2134	10.993486	-1.790079	0.1063098	0.38001	-4.798128
LIPE	0.181458	7.2418217	1.7897382	0.1063675	0.38013	-4.798606
COA7	-0.148895	8.4320752	-1.78924	0.1064519	0.38033	-4.799305
MED24	0.2038044	8.3980949	1.788885	0.106512	0.38046	-4.799802
NTN1	0.1066691	6.8433052	1.7881474	0.106637	0.38081	-4.800836
ITIH3	0.1210654	6.9765908	1.7878309	0.1066907	0.38082	-4.801279
VPS13C	0.1798623	7.5811059	1.7878141	0.1066936	0.38082	-4.801303
BEX2	0.1125153	6.8255907	1.7873485	0.1067726	0.38095	-4.801955
MIR639	0.1526542	7.0345571	1.787112	0.1068128	0.38095	-4.802286

GPLD1	0.1657658	7.0768902	1.7868606	0.1068555	0.38095	-4.802638
CD2	0.1210782	6.9167019	1.7868214	0.1068622	0.38095	-4.802693
ACSM3	0.1125313	7.0070868	1.7867653	0.1068717	0.38095	-4.802772
SNORA23	-0.147619	7.7296701	-1.786556	0.1069073	0.38095	-4.803065
OFD1	-0.128439	7.7423981	-1.786474	0.1069213	0.38095	-4.80318
HEYL	-0.124143	6.804005	-1.786378	0.1069375	0.38095	-4.803314
HS3ST1	-0.11932	6.8109241	-1.786143	0.1069775	0.381	-4.803643
ATP5G2	0.1130853	10.01505	1.7854343	0.1070981	0.38134	-4.804636
STX18-AS1	0.1298503	7.8408824	1.7846128	0.1072381	0.38174	-4.805786
POC5	-0.155469	8.6612234	-1.783642	0.1074037	0.38222	-4.807144
COMMD1	-0.217629	10.537254	-1.783523	0.1074241	0.38222	-4.807311
VASP	0.1285237	7.4893074	1.7833144	0.1074597	0.38224	-4.807603
ATP6V1D	0.1758211	9.7145101	1.7831163	0.1074936	0.38224	-4.80788
SNORD17	-0.178747	7.4266714	-1.782972	0.1075183	0.38224	-4.808083
TRIM44	0.113624	9.5183325	1.782765	0.1075536	0.38224	-4.808372
ALK	-0.130306	7.001848	-1.78272	0.1075614	0.38224	-4.808435
CIT	-0.11414	6.7255704	-1.782449	0.1076076	0.38231	-4.808813
GCA	0.140093	8.1709907	1.7814881	0.1077721	0.3828	-4.810158
STAU1	0.1308877	9.5224216	1.7809534	0.1078637	0.38303	-4.810906
SKA2	0.1278171	8.806587	1.7806167	0.1079215	0.38315	-4.811377
MRPL9	-0.22581	8.4058936	-1.779974	0.1080318	0.38331	-4.812276
TM2D2	-0.15269	7.0907733	-1.779934	0.1080385	0.38331	-4.812331
DDR1	0.123119	7.1990091	1.7797417	0.1080716	0.38331	-4.8126
EXOC4	-0.147013	8.0508678	-1.779737	0.1080725	0.38331	-4.812607
RHBDD3	0.1932995	7.8170886	1.7795707	0.108101	0.38332	-4.812839
SFPQ	-0.182623	8.6370108	-1.777566	0.1084459	0.38445	-4.815641
TAF6	0.1440538	7.2391874	1.7763518	0.1086552	0.3851	-4.817337
INSC	0.1111645	6.8933158	1.7761862	0.1086838	0.3851	-4.817569
GATC	-0.114131	8.1339027	-1.775824	0.1087463	0.38523	-4.818074
MRPL13	-0.137085	11.037611	-1.775019	0.1088854	0.38541	-4.819198
PPP3R1	0.1916443	9.9092935	1.7750022	0.1088884	0.38541	-4.819222
GTPBP8	-0.114638	8.344841	-1.774829	0.1089184	0.38541	-4.819464
MSL1	0.1119888	7.2704605	1.7748006	0.1089232	0.38541	-4.819504
PMM1	-0.137207	8.7269907	-1.774772	0.1089282	0.38541	-4.819543
LRSAM1	-0.158162	9.6992186	-1.773797	0.109097	0.38591	-4.820905
TNPO1	0.2124978	8.7042944	1.7730059	0.1092341	0.3863	-4.822009
ADSL	-0.12266	12.755081	-1.772636	0.1092983	0.38638	-4.822526
KRBOX4	-0.123921	7.0451114	-1.772578	0.1093084	0.38638	-4.822606
TMBIM4	-0.176678	9.7634412	-1.772192	0.1093754	0.38652	-4.823145
CDK5	-0.147288	8.8585878	-1.771934	0.1094201	0.38659	-4.823504
FICD	0.2114119	7.717601	1.7712849	0.1095329	0.38685	-4.82441
NUP37	-0.149427	11.281932	-1.771193	0.1095489	0.38685	-4.824538
ACTG1P4	0.1966232	8.4250781	1.7708101	0.1096155	0.38694	-4.825072
UBA5	0.124833	8.1922232	1.7707464	0.1096266	0.38694	-4.825161
AES	0.2390169	8.6013642	1.769972	0.1097614	0.38732	-4.826241

HLA-DRB5	-0.139748	7.1585298	-1.769205	0.1098952	0.3877	-4.827311
FDXR	0.1428706	7.13815	1.7685258	0.1100136	0.38798	-4.828258
DCTN6	-0.114768	7.8518635	-1.76845	0.1100269	0.38798	-4.828364
MAP2K2	0.2311489	9.1595049	1.7682533	0.1100612	0.38799	-4.828637
MIR365A	-0.169819	7.0809922	-1.768125	0.1100836	0.38799	-4.828816
KRTAP22-1	0.14508	6.8443159	1.7677563	0.110148	0.38812	-4.82933
TMOD3	0.149498	7.2381758	1.7672761	0.110232	0.38831	-4.829999
C1orf228	-0.149641	7.025817	-1.767148	0.1102544	0.38831	-4.830178
OR7G3	0.1223748	7.0286249	1.7665573	0.1103578	0.38858	-4.831001
PLXNB2	0.1082348	7.4632811	1.7657911	0.110492	0.38896	-4.832068
LCAT	-0.177951	6.869288	-1.764867	0.1106541	0.38915	-4.833355
SNORA32	-0.204456	7.7170107	-1.764692	0.1106848	0.38915	-4.833599
SNORD87	-0.200488	7.4890911	-1.764581	0.1107042	0.38915	-4.833753
C14orf132	-0.135212	6.9497487	-1.76437	0.1107414	0.38915	-4.834048
NOMO1	0.1401348	8.0194535	1.7642318	0.1107656	0.38915	-4.83424
TTC9C	-0.181852	7.9102806	-1.764131	0.1107833	0.38915	-4.83438
NRARP	0.1156089	6.7641572	1.7641109	0.1107868	0.38915	-4.834408
MBD2	0.10727	7.5255403	1.7640644	0.110795	0.38915	-4.834473
ANKRA2	-0.166827	8.1450931	-1.763857	0.1108314	0.38915	-4.834761
B4GALT1	-0.142651	7.8859411	-1.763848	0.1108331	0.38915	-4.834774
C21orf58	-0.138779	8.0696569	-1.763812	0.1108393	0.38915	-4.834824
RASAL3	-0.111758	8.3629045	-1.763661	0.110866	0.38915	-4.835035
GCNA	-0.163959	7.1973596	-1.763446	0.1109038	0.38919	-4.835334
MPC2	-0.197012	10.460863	-1.763249	0.1109384	0.38922	-4.835608
TXNDC17	-0.244324	12.391117	-1.762752	0.1110259	0.38926	-4.8363
SLC7A3	-0.134214	8.1315137	-1.76259	0.1110543	0.38926	-4.836525
MARCKSL1	0.3022452	12.219505	1.7624523	0.1110786	0.38926	-4.836717
MAFG	0.1392926	7.2958998	1.7624516	0.1110787	0.38926	-4.836718
MAGEA2	0.129948	6.8859687	1.7623879	0.11109	0.38926	-4.836807
MED21	-0.204827	7.025236	-1.76227	0.1111108	0.38926	-4.836971
OCLM	0.1160796	6.878418	1.7619889	0.1111603	0.38934	-4.837362
CIRBP-AS1	-0.264551	6.9233708	-1.761463	0.111253	0.38949	-4.838094
PIK3CA	-0.139115	7.535216	-1.761342	0.1112743	0.38949	-4.838262
DNAJC21	0.1307537	7.5563851	1.7612873	0.111284	0.38949	-4.838338
STAG3L4	-0.155884	7.749046	-1.760902	0.111352	0.38964	-4.838874
EFHD1	0.1262441	6.8117482	1.7601983	0.1114763	0.38998	-4.839853
TBL1X	-0.117099	9.1930864	-1.759957	0.1115189	0.39004	-4.840188
E2F8	0.1145945	7.2670761	1.7595189	0.1115964	0.39018	-4.840798
NCBP2-AS2	-0.118969	7.9245382	-1.759419	0.1116141	0.39018	-4.840937
IRF2	-0.112401	7.1022737	-1.758917	0.1117029	0.39028	-4.841635
TBC1D23	0.1251116	7.5445906	1.7588909	0.1117075	0.39028	-4.841671
COG3	-0.139576	7.6972719	-1.758729	0.1117363	0.39028	-4.841897
PDSS2	-0.145661	8.6271021	-1.758658	0.1117487	0.39028	-4.841995
GGH	-0.182011	9.3259258	-1.758464	0.1117831	0.3903	-4.842264
CCT6A	0.1393216	10.209168	1.7572175	0.1120042	0.39098	-4.843997

NUBP2	0.1530159	7.5417613	1.7570222	0.1120388	0.39101	-4.844268
GPER1	-0.127395	7.9264967	-1.756621	0.1121101	0.39117	-4.844826
TMEM259	0.21667	8.41255	1.7563424	0.1121596	0.39124	-4.845213
MIR29B1	-0.129582	6.9650907	-1.755965	0.1122266	0.39133	-4.845737
KDM8	0.1245859	7.058913	1.755908	0.1122368	0.39133	-4.845817
C2CD5	-0.209969	9.7348376	-1.755387	0.1123295	0.39151	-4.846541
LRIF1	-0.140316	6.9332646	-1.75531	0.1123432	0.39151	-4.846647
ZNF433	0.1030261	6.8064277	1.7551244	0.1123762	0.39153	-4.846905
RRAS2	-0.125117	10.15889	-1.754791	0.1124356	0.39154	-4.847368
WDR47	0.1168103	7.7789385	1.7547223	0.1124478	0.39154	-4.847463
PIGF	-0.164578	8.2711433	-1.754616	0.1124668	0.39154	-4.847611
CHD3	0.1250858	7.1123868	1.7544422	0.1124977	0.39154	-4.847852
IST1	-0.168072	10.459079	-1.754364	0.1125116	0.39154	-4.847961
RAB11B	-0.140412	6.999726	-1.754009	0.1125749	0.39166	-4.848453
NUDT6	-0.116999	7.9701529	-1.753374	0.1126882	0.39196	-4.849335
THRAP3	0.1726943	8.2443959	1.7531822	0.1127225	0.39199	-4.849602
NFRKB	0.1398054	7.6491395	1.7527839	0.1127936	0.39214	-4.850155
GLB1L	-0.133059	6.9896588	-1.752026	0.112929	0.39252	-4.851206
PPM1G	0.1416106	7.2297296	1.7514647	0.1130295	0.39278	-4.851986
GBF1	0.1581791	7.7075065	1.7510357	0.1131063	0.39295	-4.852581
LRRC59	-0.110475	7.434846	-1.750417	0.1132172	0.3932	-4.85344
KLHL2	-0.169144	7.8001326	-1.750327	0.1132332	0.3932	-4.853564
CLCN4	0.1111133	6.9703324	1.7493263	0.1134128	0.39355	-4.854952
OPTN	0.1429878	7.5250159	1.7493174	0.1134144	0.39355	-4.854964
FBXL17	0.207859	7.163291	1.7493171	0.1134144	0.39355	-4.854965
RNASE4	-0.112289	6.9829359	-1.748499	0.1135613	0.39397	-4.856099
DEFB131	0.133505	6.908717	1.7478425	0.1136795	0.39421	-4.857009
C16orf54	0.1734516	7.0505001	1.7477825	0.1136903	0.39421	-4.857092
C17orf107	0.124095	6.9467569	1.7475353	0.1137347	0.39421	-4.857435
TMEM214	0.2187191	7.9566255	1.7475181	0.1137378	0.39421	-4.857459
MS4A3	0.1108596	6.8321546	1.7469123	0.1138469	0.39442	-4.858298
DPH3	-0.117582	8.5472888	-1.746883	0.1138522	0.39442	-4.858339
SNHG8	-0.196368	11.159786	-1.746229	0.11397	0.39473	-4.859245
KCTD6	-0.127805	8.4910049	-1.745716	0.1140626	0.39492	-4.859956
ARV1	-0.170563	8.5123124	-1.745601	0.1140834	0.39492	-4.860116
TK2	-0.122688	6.8546645	-1.745482	0.1141049	0.39492	-4.86028
B3GAT3	0.1619415	7.3927598	1.7450866	0.1141763	0.39507	-4.860828
SNORA70B	-0.143145	7.1128993	-1.743366	0.1144875	0.39605	-4.86321
EIF1B	-0.159823	10.411417	-1.742903	0.1145715	0.39625	-4.863852
MIR545	-0.115107	6.8784894	-1.74269	0.1146101	0.39629	-4.864147
ADAM12	0.1165541	7.0107439	1.7425209	0.1146406	0.3963	-4.864381
ATAD3C	0.1120845	6.8407032	1.7418663	0.1147594	0.39662	-4.865287
SLC6A1	0.1759811	6.9167292	1.7413837	0.114847	0.39683	-4.865955
TRMT112	-0.158205	12.306869	-1.740841	0.1149457	0.39707	-4.866706
RAD51B	-0.11385	7.2705593	-1.74057	0.1149949	0.39715	-4.867081

CETN1	0.1148039	6.9616382	1.7402979	0.1150444	0.39716	-4.867457
PALMD	0.1177264	6.972835	1.7402501	0.1150531	0.39716	-4.867523
SGO1	0.126703	8.1261704	1.7401054	0.1150794	0.39716	-4.867723
PTCHD4	0.1124851	7.220014	1.7394978	0.11519	0.39745	-4.868563
MIR487A	0.1151823	6.8453718	1.7392298	0.1152388	0.39752	-4.868934
ADRM1	0.1932424	9.9663197	1.7389205	0.1152952	0.39762	-4.869362
CYB5R2	0.1277438	6.7946106	1.7386655	0.1153417	0.39769	-4.869714
FAM160B1	0.1329358	8.6233714	1.7383985	0.1153904	0.3977	-4.870084
PRPF39	-0.123434	6.9299352	-1.738349	0.1153993	0.3977	-4.870152
FKBP11	-0.207961	11.728804	-1.738091	0.1154465	0.39777	-4.870509
DAG1	0.1444717	7.5635005	1.7379191	0.1154778	0.39778	-4.870746
SEC31B	-0.160599	6.9646031	-1.737658	0.1155255	0.39783	-4.871107
PRPF6	0.1699335	7.7114539	1.7375358	0.1155478	0.39783	-4.871276
SPCS2P4	-0.109282	9.5860157	-1.736771	0.1156876	0.39818	-4.872333
DENND4A	-0.146858	7.6819512	-1.736684	0.1157034	0.39818	-4.872453
BTG1	0.1254331	11.120259	1.7365458	0.1157288	0.39818	-4.872644
CDK19	0.1756547	8.6210952	1.7362091	0.1157904	0.39829	-4.87311
ID2-AS1	0.1525981	6.9723949	1.7358275	0.1158602	0.39838	-4.873637
HSFY1P1	0.1152339	7.247868	1.7357802	0.1158689	0.39838	-4.873702
PPIE	-0.105506	8.1541646	-1.735278	0.1159608	0.39856	-4.874396
WDR25	0.1195992	7.5262664	1.7351894	0.1159771	0.39856	-4.874518
CMTM3	0.112445	7.1064293	1.73477	0.116054	0.39873	-4.875098
ZFYVE26	0.1448068	8.6826839	1.7343034	0.1161396	0.39888	-4.875742
POLR3K	-0.138086	9.7222926	-1.734052	0.1161857	0.39888	-4.87609
CENPM	0.1266548	9.8000952	1.7339993	0.1161954	0.39888	-4.876162
MARK4	0.1708148	7.0138199	1.7339362	0.116207	0.39888	-4.876249
TNFSF4	0.1110068	7.348171	1.7334857	0.1162897	0.39902	-4.876871
HRK	-0.15545	7.963191	-1.733413	0.116303	0.39902	-4.876971
NDUFV3	-0.135206	7.5250814	-1.732797	0.1164162	0.39914	-4.877821
HIST1H4B	-0.163815	6.9680536	-1.732638	0.1164455	0.39914	-4.878041
UQCR11	-0.12818	8.3338665	-1.732596	0.1164533	0.39914	-4.8781
CPSF4	-0.133237	9.6701012	-1.732492	0.1164724	0.39914	-4.878243
PNN	0.1572371	9.9891668	1.7323927	0.1164907	0.39914	-4.87838
ROBO3	0.1062941	6.8876122	1.7320492	0.1165539	0.39914	-4.878854
AFG3L2	0.1483863	11.150182	1.7319409	0.1165738	0.39914	-4.879004
CSRP2	0.1119288	6.9640496	1.7318561	0.1165894	0.39914	-4.879121
GNB2	0.187452	7.8959675	1.7316361	0.1166299	0.39914	-4.879424
AKR1C2	-0.11766	6.8545741	-1.73159	0.1166384	0.39914	-4.879488
STRN4	0.1196026	7.418926	1.7313718	0.1166786	0.39914	-4.879789
FAM205A	-0.122481	6.6755102	-1.731337	0.116685	0.39914	-4.879837
MOB3C	-0.194386	7.6905231	-1.731294	0.1166929	0.39914	-4.879896
EPHX1	0.1834703	6.9384315	1.730746	0.116794	0.39931	-4.880653
FAM46B	-0.111611	6.7584677	-1.730733	0.1167964	0.39931	-4.88067
DEFB125	-0.14038	6.9214789	-1.730536	0.1168327	0.39934	-4.880942
CAMK2G	-0.111678	8.186163	-1.730275	0.116881	0.39941	-4.881303

PITPNA	-0.158981	7.8150647	-1.729911	0.1169481	0.39952	-4.881804
SNHG3	-0.145868	7.1148351	-1.729763	0.1169755	0.39952	-4.882009
PAPD4	0.1565425	9.7371988	1.7296492	0.1169965	0.39952	-4.882166
LRRC45	0.1203407	7.0862938	1.7288339	0.1171472	0.39967	-4.88329
CEP152	0.1091058	7.9134639	1.7286929	0.1171733	0.39967	-4.883484
MIR373	0.1845424	7.2538096	1.728671	0.1171773	0.39967	-4.883515
BTN3A3	-0.122505	7.5587897	-1.728511	0.1172069	0.39967	-4.883735
MAP2K4	0.1090711	8.1850373	1.7284016	0.1172272	0.39967	-4.883886
ZNF385D	0.1358082	6.9106174	1.7283905	0.1172292	0.39967	-4.883901
MEIS2	0.134098	7.3426794	1.7283814	0.1172309	0.39967	-4.883914
PMS2P3	-0.113041	7.8877658	-1.728106	0.1172818	0.39967	-4.884293
INTS9	-0.148814	9.1968984	-1.727978	0.1173055	0.39967	-4.88447
LTV1	0.1102835	10.795878	1.7278697	0.1173256	0.39967	-4.884619
FLJ42627	0.1555081	7.4334957	1.7277933	0.1173398	0.39967	-4.884725
RAD23A	0.1975881	9.5663018	1.7270146	0.1174841	0.40007	-4.885798
SEPT7P2	-0.126524	6.9837905	-1.726692	0.117544	0.40007	-4.886243
SMIM19	-0.180651	9.2020506	-1.726651	0.1175515	0.40007	-4.886299
SNRNP70	0.187869	9.2714568	1.726557	0.117569	0.40007	-4.886429
RPL23AP53	0.1744557	8.0564452	1.7263881	0.1176003	0.40009	-4.886661
NDUFA4	-0.136104	13.243717	-1.726167	0.1176414	0.40013	-4.886966
ALDH9A1	-0.148586	11.706745	-1.725642	0.1177389	0.40037	-4.887689
NPAT	0.2106167	7.4287741	1.7251511	0.1178301	0.40059	-4.888365
SNORA7B	-0.115836	8.2427022	-1.724493	0.1179526	0.40087	-4.889272
TTTY4B	0.1262947	6.8889397	1.7244096	0.1179681	0.40087	-4.889387
BMS1	0.1726163	10.779078	1.7242565	0.1179966	0.40088	-4.889598
CCT5	-0.126336	7.6882085	-1.724042	0.1180366	0.40092	-4.889894
LINC00853	0.1433546	6.8585445	1.7235646	0.1181255	0.40109	-4.89055
PIEZO2	0.1142528	6.941352	1.7234788	0.1181415	0.40109	-4.890669
SNORA3A	-0.211718	8.065823	-1.722972	0.118236	0.40132	-4.891367
VRTN	-0.121597	6.8544758	-1.722542	0.1183162	0.40136	-4.891958
KIAA0232	-0.199255	7.1131036	-1.722178	0.1183841	0.40136	-4.892459
VPS4A	0.1373263	8.1527298	1.7221175	0.1183955	0.40136	-4.892543
LINC00174	0.1437399	7.6075379	1.7221054	0.1183977	0.40136	-4.892559
PPARGC1B	0.3369595	7.9122476	1.7220648	0.1184053	0.40136	-4.892615
TADA2A	-0.157109	7.2350698	-1.722019	0.1184139	0.40136	-4.892678
LYZL6	-0.113533	6.9535062	-1.721756	0.118463	0.40143	-4.89304
TMEM63C	-0.13652	6.9073307	-1.721379	0.1185334	0.40152	-4.893559
C21orf91-OT	0.1053623	6.9292616	1.7213243	0.1185437	0.40152	-4.893634
RUNX1	0.1494337	7.3467835	1.72099	0.1186062	0.40157	-4.894094
TP53I11	0.1116784	6.9479163	1.7209053	0.118622	0.40157	-4.89421
C12orf49	0.1075677	8.2561702	1.7206498	0.1186698	0.40157	-4.894562
MRFAP1	0.1254635	11.765002	1.7204321	0.1187106	0.40157	-4.894861
RNF115	0.2265951	9.4841827	1.7202943	0.1187364	0.40157	-4.895051
PCGF6	0.1230025	8.3654685	1.7202786	0.1187393	0.40157	-4.895073
SNRK	0.1177045	8.4907171	1.720216	0.1187511	0.40157	-4.895159

C3orf67	-0.128879	6.8986976	-1.719978	0.1187957	0.40163	-4.895486
LRRC20	-0.136417	7.7290289	-1.719656	0.118856	0.40165	-4.895929
NNT	-0.121672	7.7732008	-1.719652	0.1188568	0.40165	-4.895935
ABCC6P2	-0.119492	6.9825095	-1.719389	0.1189059	0.40172	-4.896296
ARF5	0.1435434	9.6888381	1.7188031	0.1190159	0.402	-4.897102
ADGRG3	0.1432406	6.9612291	1.7181642	0.1191359	0.4022	-4.89798
SMAP2	0.117021	10.025951	1.7180931	0.1191492	0.4022	-4.898078
CHMP2B	-0.165879	9.0166312	-1.718053	0.1191567	0.4022	-4.898132
XYLT2	0.1459527	9.0952164	1.7178953	0.1191864	0.4022	-4.89835
B3GNT2	0.1645502	7.8233912	1.7176552	0.1192315	0.40226	-4.89868
HSPE1	-0.204233	11.447067	-1.717046	0.1193461	0.40254	-4.899518
TNFAIP8L1	0.1906782	7.5770824	1.7168149	0.1193895	0.40254	-4.899835
MMP11	-0.122678	6.8615872	-1.716784	0.1193953	0.40254	-4.899877
PKN1	0.184736	7.9011513	1.7160652	0.1195307	0.4029	-4.900865
ZMYM3	0.1234566	7.4196739	1.7156445	0.11961	0.40302	-4.901443
NAG18	0.1321736	14.123684	1.7155789	0.1196224	0.40302	-4.901533
CALHM2	-0.101387	7.5443945	-1.715315	0.119672	0.4031	-4.901895
TMEM50A	-0.111174	8.2574809	-1.715159	0.1197016	0.4031	-4.90211
EFCAB11	0.1478884	7.894399	1.7134935	0.1200161	0.40396	-4.904397
PRR32	0.1873436	8.6911905	1.7131906	0.1200734	0.40396	-4.904813
STK33	-0.124505	7.510544	-1.713181	0.1200752	0.40396	-4.904826
EIF5A	0.128916	12.434897	1.713137	0.1200835	0.40396	-4.904886
FLYWCH1	-0.108841	7.0397039	-1.713018	0.1201061	0.40396	-4.90505
LAMB2	-0.134502	6.7345499	-1.712935	0.1201218	0.40396	-4.905164
GDAP1	0.1226342	7.2432068	1.7123173	0.1202387	0.40426	-4.906012
ICAM3	0.1465143	9.5276836	1.7112657	0.120438	0.40481	-4.907454
STATH	-0.180211	6.8321705	-1.711098	0.1204698	0.40481	-4.907684
STK11IP	0.1430255	7.8599483	1.7110083	0.1204869	0.40481	-4.907808
GON4L	0.1080562	8.1922774	1.7107099	0.1205435	0.40486	-4.908217
SFXN2	-0.124004	7.608189	-1.710524	0.1205788	0.40486	-4.908472
CYB561A3	0.2379901	9.8628507	1.7104953	0.1205843	0.40486	-4.908511
MGST3	-0.127764	9.539903	-1.710281	0.1206249	0.4049	-4.908805
NAMPT	0.1653857	8.4072488	1.7097972	0.1207169	0.40512	-4.909469
MRPS31	-0.16176	10.88384	-1.709576	0.120759	0.40517	-4.909772
SPG21	0.1414117	9.1592388	1.708493	0.1209651	0.40577	-4.911257
UBE2K	0.162963	8.3783519	1.7079885	0.1210612	0.40584	-4.911949
MPI	0.1433026	7.9927132	1.7078965	0.1210787	0.40584	-4.912075
TRIM62	-0.122519	6.9533082	-1.707626	0.1211304	0.40584	-4.912446
CFB	0.1150053	6.9435453	1.7075956	0.1211361	0.40584	-4.912487
MINDY2	0.1242029	6.8297759	1.7074452	0.1211648	0.40584	-4.912693
ANAPC7	-0.186471	8.2486478	-1.707336	0.1211856	0.40584	-4.912843
AHI1	-0.172209	7.4760757	-1.707242	0.1212036	0.40584	-4.912972
NDUFS6	-0.149734	6.9266568	-1.707127	0.1212254	0.40584	-4.913129
CCNA1	-0.122829	6.7660646	-1.706835	0.1212813	0.40584	-4.91353
ARFIP2	-0.11627	7.042916	-1.706802	0.1212875	0.40584	-4.913575

UBE2A	0.1234006	8.6807765	1.7067407	0.1212993	0.40584	-4.913659
VN1R2	-0.133679	7.0970235	-1.706623	0.1213217	0.40584	-4.91382
ZNF580	0.1258352	7.2336901	1.7062098	0.1214007	0.40601	-4.914386
C3orf22	0.1051763	6.989104	1.7058258	0.1214741	0.4061	-4.914912
TUBD1	-0.230127	7.3282524	-1.705784	0.121482	0.4061	-4.914969
KRT31	-0.113161	6.8941361	-1.705494	0.1215376	0.40616	-4.915367
MMP23B	-0.108809	7.0138735	-1.705396	0.1215563	0.40616	-4.915501
HLA-F	0.1735022	9.7504724	1.705217	0.1215905	0.40618	-4.915746
ARHGAP11B	0.2426319	7.6435159	1.7049828	0.1216353	0.40624	-4.916067
LRTOMT	-0.125818	7.3486511	-1.704667	0.1216957	0.40635	-4.916499
MAGEB1	0.1150668	7.0082367	1.7044566	0.1217361	0.40639	-4.916788
TNFRSF17	-0.163733	7.7931881	-1.704208	0.1217836	0.40646	-4.917127
HNRNPU	0.1472248	8.7851783	1.7039781	0.1218278	0.40651	-4.917443
BLOC1S5	-0.169888	8.9116895	-1.70342	0.1219348	0.40677	-4.918206
TIMM13	0.1216329	7.1174339	1.7029551	0.122024	0.40698	-4.918843
LSM8	-0.108985	8.4289916	-1.702217	0.1221658	0.40736	-4.919853
CWC15	-0.138739	10.035493	-1.701829	0.1222405	0.40751	-4.920384
MPIG6B	-0.109027	7.023972	-1.700734	0.122451	0.40804	-4.921881
AKAP8	0.1310097	8.4959201	1.7005974	0.1224774	0.40804	-4.922069
HFE2	0.1254266	6.919943	1.7005774	0.1224813	0.40804	-4.922096
MFSD1	-0.114264	10.464671	-1.699872	0.1226173	0.40815	-4.923061
ST8SIA3	-0.102836	6.9356804	-1.699851	0.1226214	0.40815	-4.92309
PDCL	0.1141809	7.6537992	1.6997409	0.1226425	0.40815	-4.92324
VN2R17P	0.1263483	7.1342101	1.6997019	0.1226501	0.40815	-4.923294
RPS2	0.2412542	13.894079	1.6995598	0.1226775	0.40815	-4.923488
SLTM	0.1831532	8.4833989	1.6995402	0.1226812	0.40815	-4.923515
CDC123	0.1302056	10.577838	1.6991923	0.1227484	0.40823	-4.92399
TBX22	0.1303878	6.9712133	1.6990992	0.1227664	0.40823	-4.924118
MACF1	0.1134495	7.3944813	1.6988939	0.122806	0.40823	-4.924398
CBARP	0.1959707	7.2083171	1.6987763	0.1228287	0.40823	-4.924559
SLC10A3	0.1284371	7.8885426	1.698676	0.1228481	0.40823	-4.924696
TCF21	0.1442036	6.8867872	1.6981744	0.122945	0.40846	-4.925382
ARHGAP30	0.1786071	8.8335301	1.6977079	0.1230352	0.40863	-4.926019
TNFSF13B	0.1058342	7.1165954	1.6975825	0.1230595	0.40863	-4.926191
NUMB	0.159622	9.131438	1.6972982	0.1231145	0.40863	-4.926579
ITGA2	0.1128363	6.968442	1.6972823	0.1231176	0.40863	-4.926601
NPTX1	0.1082474	6.8195501	1.6972001	0.1231335	0.40863	-4.926713
LHX4	-0.10096	6.7902207	-1.696402	0.1232881	0.40905	-4.927804
LYPD6	0.1023265	6.8394865	1.6961098	0.1233447	0.40914	-4.928203
FAIM	-0.10772	7.8763639	-1.695572	0.123449	0.40926	-4.928937
NLK	-0.150911	7.3589172	-1.695558	0.1234516	0.40926	-4.928956
PPME1	0.178551	8.6803227	1.6954944	0.123464	0.40926	-4.929043
GDF11	-0.125567	7.5546967	-1.695028	0.1235546	0.40946	-4.92968
RIPOR2	0.1900376	9.66297	1.694815	0.1235959	0.40951	-4.929971
RAP1BL	-0.1852	8.2244943	-1.694086	0.1237376	0.40988	-4.930966

SLC19A1	0.2150606	8.4175168	1.69365	0.1238224	0.41007	-4.931561
USMG5	-0.118599	8.3540932	-1.693465	0.1238585	0.41009	-4.931814
LOC1005075	0.1320371	7.7346315	1.6933351	0.1238837	0.41009	-4.931991
ADAM9	-0.130418	7.1108885	-1.692959	0.1239569	0.41017	-4.932504
ECE2	-0.116918	8.9534335	-1.692692	0.124009	0.41017	-4.932869
ZNF669	-0.111948	7.5510947	-1.692667	0.1240137	0.41017	-4.932902
ANKMY1	-0.256437	8.5010311	-1.692635	0.12402	0.41017	-4.932946
SMG5	-0.184566	9.9473793	-1.692016	0.1241407	0.41027	-4.933791
FLII	0.2201983	8.2140735	1.6919834	0.1241471	0.41027	-4.933836
NAGA	0.1395629	6.895444	1.6918213	0.1241787	0.41027	-4.934057
SRRM1	0.1349	11.658335	1.6916506	0.124212	0.41027	-4.93429
CCDC15	0.1377778	7.4692846	1.6915231	0.1242369	0.41027	-4.934464
FARP2	-0.107966	7.1110281	-1.691487	0.1242439	0.41027	-4.934513
RPL13	-0.109091	9.7290906	-1.691384	0.1242641	0.41027	-4.934654
NRGN	0.1254907	7.0838033	1.6913221	0.1242761	0.41027	-4.934738
FAM120B	0.1894745	9.9577491	1.690674	0.1244027	0.4106	-4.935622
SLC25A46	0.1612556	10.332549	1.6900742	0.1245199	0.41089	-4.93644
CLRN1	0.1299663	7.1346475	1.6894556	0.1246409	0.4112	-4.937283
HHIPL1	-0.125301	6.8424256	-1.688782	0.1247729	0.4114	-4.938202
SIRT6	0.1365708	7.1421684	1.6887363	0.1247818	0.4114	-4.938264
SYPL1	0.1112388	10.096765	1.6887092	0.1247871	0.4114	-4.9383
FCRL2	-0.142759	7.9606145	-1.687969	0.1249323	0.41174	-4.93931
TPI1	0.146551	13.132447	1.687889	0.1249479	0.41174	-4.939418
ZNF543	-0.139527	7.5273565	-1.687528	0.1250187	0.41188	-4.93991
CRK	0.1270733	8.1845163	1.6873897	0.1250459	0.41188	-4.940099
CFC1B	0.1298829	7.0243431	1.6871611	0.1250908	0.41194	-4.94041
ZNF764	0.1397465	7.1806579	1.6869626	0.1251298	0.41197	-4.94068
DIS3L	-0.254397	9.6878734	-1.686735	0.1251746	0.41203	-4.940991
TCERG1	0.131295	8.2291499	1.6857689	0.1253644	0.41256	-4.942306
KBTBD6	-0.134904	7.3063434	-1.685304	0.125456	0.41263	-4.942939
ANXA3	0.1346351	6.760607	1.6852726	0.1254621	0.41263	-4.942982
PMP22	0.1261235	6.7340922	1.6850522	0.1255055	0.41263	-4.943282
PHPT1	-0.150312	11.673268	-1.685021	0.1255117	0.41263	-4.943325
TNNT2	0.1510373	6.9575069	1.6849049	0.1255346	0.41263	-4.943483
SCRIB	-0.122527	7.8669278	-1.6848	0.1255552	0.41263	-4.943625
FOXP1-IT1	-0.182481	8.1511624	-1.684424	0.1256293	0.41278	-4.944137
CEP104	0.109292	7.348455	1.6839714	0.1257186	0.41297	-4.944753
GPC1	0.1092906	6.846706	1.683836	0.1257453	0.41297	-4.944937
C1orf198	0.1000694	7.7499717	1.6834564	0.1258202	0.41312	-4.945454
SMG8	-0.122421	8.8486614	-1.683318	0.1258475	0.41312	-4.945642
SNORA36C	0.1162323	6.9293387	1.6821071	0.1260869	0.41374	-4.94729
HOXD11	-0.154911	6.9362494	-1.682073	0.1260936	0.41374	-4.947336
TUSC2	0.1169064	8.2871667	1.6818376	0.1261402	0.4138	-4.947656
MAGI2	0.1226151	6.7435448	1.6815225	0.1262025	0.4139	-4.948085
RPL15P11	-0.136319	13.269608	-1.681113	0.1262836	0.4139	-4.948641

NAT1	-0.115772	6.8612889	-1.681095	0.1262872	0.4139	-4.948666
COL13A1	0.1040617	7.0220699	1.6809939	0.1263072	0.4139	-4.948804
SLC2A13	0.1350642	6.7446767	1.680885	0.1263288	0.4139	-4.948952
STAG2	0.1456468	7.862107	1.6808363	0.1263384	0.4139	-4.949018
ABCC1	0.2029842	7.1264381	1.6804912	0.1264068	0.4139	-4.949487
SWSAP1	-0.135756	7.0839518	-1.680277	0.1264493	0.4139	-4.949779
PIK3CG	0.1782698	7.5550675	1.680199	0.1264648	0.4139	-4.949885
USP36	-0.15798	8.2524334	-1.680055	0.1264933	0.4139	-4.95008
UBXN8	-0.112757	7.0942116	-1.679986	0.126507	0.4139	-4.950174
ASF1A	0.1216881	9.5572968	1.6799231	0.1265195	0.4139	-4.95026
HLA-DRB3	0.1633829	11.163955	1.6798274	0.1265385	0.4139	-4.95039
NDUFS5	-0.14707	12.752024	-1.679688	0.1265662	0.4139	-4.950579
MAK16	-0.229706	8.8448815	-1.678517	0.1267989	0.41449	-4.952171
DSCR10	0.1165645	7.0122777	1.6784166	0.1268187	0.41449	-4.952307
EIF3D	0.1416125	12.014178	1.6783445	0.1268331	0.41449	-4.952405
STRN	0.1039443	7.4099043	1.6781718	0.1268674	0.41449	-4.95264
TMEM57	-0.110156	8.2974237	-1.678063	0.126889	0.41449	-4.952787
GMNN	-0.15897	9.2324295	-1.677609	0.1269794	0.41468	-4.953404
KRTCAP2	-0.170543	11.154059	-1.677487	0.1270037	0.41468	-4.95357
STAG3L2	-0.164455	8.2249169	-1.677143	0.1270722	0.41481	-4.954037
ATP6V1G3	0.1086743	6.8577679	1.6769748	0.1271057	0.41483	-4.954266
HIST1H2AG	-0.120675	6.8973318	-1.676788	0.127143	0.41486	-4.95452
FCRLA	-0.182745	12.544645	-1.676009	0.1272982	0.41507	-4.955577
GRINA	0.186379	8.3198166	1.675965	0.1273071	0.41507	-4.955637
CPS1	-0.116077	6.8733574	-1.675903	0.1273195	0.41507	-4.955721
ACTR3	-0.224732	10.551814	-1.675895	0.127321	0.41507	-4.955731
PITRM1	0.1581409	8.8655373	1.6753825	0.1274233	0.41531	-4.956428
BDNF	0.1028436	6.9172796	1.6749591	0.1275079	0.41544	-4.957002
SLC22A10	0.190255	6.9133612	1.6747686	0.127546	0.41544	-4.957261
SIRT5	-0.107004	7.9648631	-1.674748	0.1275501	0.41544	-4.957289
RPL23AP7	-0.10336	8.860503	-1.673849	0.12773	0.41593	-4.958509
KIAA1551	0.1560989	7.9340657	1.6733945	0.1278209	0.41606	-4.959125
ACOT13	-0.165859	9.7249796	-1.673379	0.127824	0.41606	-4.959146
MYRIP	0.1018709	6.8009346	1.6731332	0.1278733	0.41612	-4.95948
SPTLC1	-0.104748	8.6161086	-1.67289	0.127922	0.41617	-4.95981
NARF	-0.141765	8.818649	-1.672444	0.1280115	0.41617	-4.960415
COQ10A	-0.113612	8.4089418	-1.672416	0.128017	0.41617	-4.960453
BCL7B	-0.102339	7.9553852	-1.672415	0.1280171	0.41617	-4.960454
CCDC86	0.4357505	10.617214	1.6723556	0.1280291	0.41617	-4.960535
EPS8L3	-0.123646	6.9374479	-1.672163	0.1280677	0.4162	-4.960795
SLC39A3	0.1107812	8.7045371	1.6719707	0.1281063	0.41623	-4.961057
LOC401286	0.1166738	6.9061841	1.671594	0.128182	0.41629	-4.961567
SUMO4	-0.146687	6.9718381	-1.671591	0.1281825	0.41629	-4.961571
RYK	-0.122787	8.4479985	-1.671277	0.1282457	0.41641	-4.961998
PCNA	-0.161355	9.6529059	-1.671007	0.1282998	0.41647	-4.962363

DEFB122	-0.107819	6.8662366	-1.670897	0.128322	0.41647	-4.962513
RSL1D1	0.125388	10.710573	1.6707082	0.1283599	0.4165	-4.962768
KIR2DS2	0.126579	6.849326	1.6704275	0.1284164	0.41659	-4.963149
NUDT5	-0.125191	10.754825	-1.669436	0.1286159	0.41714	-4.964492
SRSF6	-0.14402	12.401129	-1.668276	0.1288497	0.41775	-4.966064
PRICKLE1	-0.138355	7.0881335	-1.668225	0.1288601	0.41775	-4.966134
FBXL18	0.1495392	9.8416433	1.667219	0.1290631	0.41832	-4.967495
RPL26P30	-0.115893	11.064526	-1.666141	0.1292811	0.41893	-4.968955
AP3B1	0.2264996	10.334	1.665725	0.1293652	0.41909	-4.969518
PDPN	0.1194573	6.8183634	1.665614	0.1293877	0.41909	-4.969668
C12orf66	-0.261157	8.0118784	-1.664962	0.1295198	0.41939	-4.97055
MIR630	-0.151777	6.9576845	-1.664749	0.1295631	0.41939	-4.970839
FAM213B	0.1203266	8.7526908	1.6647289	0.1295671	0.41939	-4.970866
SNORD32B	-0.146286	6.9938923	-1.664345	0.129645	0.41955	-4.971386
ALG1	-0.13083	7.785173	-1.663224	0.1298725	0.42005	-4.972902
OSBPL7	0.1123511	7.5262933	1.6631514	0.1298873	0.42005	-4.973
NACC1	0.124343	7.0577149	1.6630641	0.129905	0.42005	-4.973118
F2RL3	0.1335162	6.7115218	1.6630137	0.1299152	0.42005	-4.973186
KLHL25	0.131297	6.9594148	1.6625336	0.1300129	0.42027	-4.973835
LOC1005065	-0.115057	6.9703945	-1.661882	0.1301454	0.42061	-4.974716
INSIG1	0.1303198	9.9972898	1.6615623	0.1302105	0.42068	-4.975148
GDPD5	-0.121081	7.3527248	-1.661489	0.1302255	0.42068	-4.975248
ZNF654	0.1395528	7.231784	1.6612819	0.1302676	0.42072	-4.975527
MGST2	-0.122187	6.8349167	-1.661135	0.1302976	0.42073	-4.975726
EMP1	0.11281	6.8881775	1.6607299	0.1303802	0.42088	-4.976273
FAM19A4	0.1364785	7.0279304	1.6606101	0.1304046	0.42088	-4.976435
ATP6AP2	0.118205	10.820034	1.6603288	0.130462	0.42088	-4.976815
ANKHD1	0.150752	7.5993432	1.6602514	0.1304778	0.42088	-4.97692
DCAF15	0.1607603	7.3456603	1.6601257	0.1305034	0.42088	-4.97709
ATF6	-0.163698	9.3363623	-1.660052	0.1305184	0.42088	-4.977189
EZR-AS1	0.1585358	7.0964659	1.6599167	0.1305461	0.42088	-4.977372
DCK	0.124644	8.7582058	1.6593948	0.1306526	0.42113	-4.978077
RAB34	0.1449599	6.9551744	1.6590901	0.1307149	0.42114	-4.978489
MICB	-0.174721	8.7717726	-1.659049	0.1307233	0.42114	-4.978544
MIR450A2	-0.112311	6.7913662	-1.658948	0.130744	0.42114	-4.978681
VEZT	0.1187489	8.2069812	1.6588179	0.1307705	0.42114	-4.978856
PCK2	0.1581999	8.3858053	1.6580769	0.1309221	0.42153	-4.979857
FHOD1	0.1785966	8.7612157	1.657875	0.1309634	0.42155	-4.98013
TM2D1	-0.196795	8.8082375	-1.657772	0.1309845	0.42155	-4.980268
GMPS	0.1245402	10.721888	1.6574991	0.1310404	0.42163	-4.980637
SUMO1	-0.101518	7.2510684	-1.657338	0.1310735	0.42165	-4.980855
PPP2R2A	0.215252	9.6642022	1.6569808	0.1311466	0.42179	-4.981337
CPB1	0.1216088	6.8908039	1.6565246	0.1312402	0.42182	-4.981952
P2RX4	0.120324	7.4205738	1.6564458	0.1312563	0.42182	-4.982059
MAPK11	0.1001026	6.9609076	1.656318	0.1312826	0.42182	-4.982231

COPS8	-0.144123	9.6443402	-1.656141	0.1313189	0.42182	-4.98247
C19orf48	0.1283923	9.1282309	1.6561018	0.1313269	0.42182	-4.982523
LRRFIP1	0.2778117	9.4935117	1.6560921	0.1313289	0.42182	-4.982536
NCAPH2	0.1277981	7.6015829	1.6555504	0.1314401	0.42208	-4.983267
SMN2	-0.144208	7.195616	-1.65512	0.1315286	0.42227	-4.983848
RTN4RL1	0.1609482	7.0044631	1.6538664	0.1317864	0.42285	-4.985538
IPO9	0.1905323	8.7334895	1.6537329	0.1318139	0.42285	-4.985718
CCM2L	-0.107685	6.7182114	-1.65372	0.1318166	0.42285	-4.985736
CHMP4B	0.1680981	9.4795423	1.6536582	0.1318293	0.42285	-4.985819
WDR90	-0.146101	7.5457341	-1.653538	0.131854	0.42285	-4.985981
NOL4	0.1097003	6.8873486	1.6534104	0.1318804	0.42285	-4.986153
CCDC124	0.198309	8.2304301	1.653228	0.1319179	0.42287	-4.986399
KLHL14	0.1269616	6.9779103	1.6527651	0.1320134	0.42309	-4.987023
ANXA2R	-0.151408	7.0874068	-1.652404	0.1320878	0.42323	-4.987509
SAP30L	-0.124737	8.3694685	-1.652085	0.1321536	0.42335	-4.98794
PCGF2	0.1088082	6.9900659	1.6517702	0.1322187	0.42347	-4.988364
B4GALNT4	0.1110055	6.899317	1.6510545	0.1323665	0.42385	-4.989328
CAPSL	-0.183265	7.0539947	-1.650608	0.1324588	0.42401	-4.989929
CHMP1A	0.197858	8.7651045	1.6505246	0.1324761	0.42401	-4.990042
RPS23	-0.11645	10.811326	-1.650342	0.1325139	0.42404	-4.990288
FAM43A	-0.101764	6.8149968	-1.649642	0.1326588	0.42441	-4.991231
ZBED9	-0.10033	6.8602702	-1.649346	0.1327201	0.42451	-4.99163
BTBD2	-0.158967	11.493507	-1.648995	0.1327928	0.42462	-4.992102
MAG	-0.110324	7.0159907	-1.648898	0.1328131	0.42462	-4.992233
ZNF324	0.1756246	8.0576127	1.6487665	0.1328402	0.42462	-4.99241
RAB40C	-0.131234	9.3659189	-1.648522	0.1328909	0.42469	-4.992738
TMEM200B	0.1244609	6.9070066	1.6480427	0.1329904	0.42491	-4.993384
CASC3	0.1970831	9.1002468	1.647882	0.1330238	0.42492	-4.9936
OR10A2	0.1128639	6.8718295	1.6473512	0.133134	0.42512	-4.994315
ADGRG5	-0.110839	6.9728408	-1.647305	0.1331435	0.42512	-4.994376
QSOX2	-0.162892	8.902272	-1.647094	0.1331875	0.42517	-4.994661
LSM2	-0.165922	11.773248	-1.646673	0.1332751	0.42532	-4.995228
LOC285074	-0.108932	8.9741091	-1.646585	0.1332933	0.42532	-4.995345
MRPL50	-0.154431	10.780302	-1.646028	0.1334093	0.42542	-4.996095
PLA2G12A	-0.13162	7.3710485	-1.645907	0.1334343	0.42542	-4.996257
EIF2D	0.1397314	10.230321	1.6458643	0.1334433	0.42542	-4.996315
SLC29A3	0.1138446	7.227468	1.6457373	0.1334698	0.42542	-4.996486
PPP1R12B	0.1447587	7.4331279	1.6457364	0.13347	0.42542	-4.996487
PGAP2	-0.163231	10.088202	-1.645155	0.1335911	0.42566	-4.997269
CCNY	0.2036801	9.0744803	1.644895	0.1336453	0.42566	-4.997619
NDUFB6	0.1563891	10.328082	1.6448486	0.133655	0.42566	-4.997681
GAPDH	0.1302318	13.578805	1.6446708	0.1336921	0.42566	-4.99792
MOB1A	-0.131254	8.6009647	-1.644588	0.1337094	0.42566	-4.998032
ICA1L	-0.119943	7.6219414	-1.644391	0.1337505	0.42566	-4.998297
GPATCH1	-0.150637	6.9933445	-1.644089	0.1338134	0.42566	-4.998702

WDCP	-0.125814	9.9551663	-1.643979	0.1338365	0.42566	-4.99885
AP3M2	-0.127566	8.4327678	-1.643872	0.1338588	0.42566	-4.998994
DNAJC16	0.1112053	6.9103324	1.6438504	0.1338633	0.42566	-4.999023
IFT52	-0.12982	8.0935941	-1.643817	0.1338701	0.42566	-4.999067
ZFAND5	0.2158676	10.894487	1.6436884	0.1338971	0.42566	-4.999241
CDIP1	0.1116406	6.8601228	1.6435594	0.1339241	0.42566	-4.999414
SOS2	0.1037931	6.9370738	1.6430325	0.1340342	0.42588	-5.000122
TEKT1	0.1004256	6.9818079	1.642941	0.1340533	0.42588	-5.000245
TARS	-0.145978	10.235466	-1.64256	0.1341331	0.42603	-5.000758
UTP6	-0.229044	11.088744	-1.642435	0.1341592	0.42603	-5.000926
AXDND1	0.1116683	6.9873507	1.6421092	0.1342273	0.42616	-5.001363
PPRC1	0.1661233	9.9004347	1.6416077	0.1343323	0.4264	-5.002037
MIR1228	0.1751188	8.1775538	1.6414439	0.1343667	0.42641	-5.002257
MRPL2	0.2133557	9.3954659	1.6411042	0.1344379	0.42655	-5.002713
NFKBIB	0.1434787	8.0460385	1.6408229	0.1344968	0.42662	-5.00309
MAP1S	0.2305334	8.17635	1.6407216	0.1345181	0.42662	-5.003227
AGPAT2	0.1129094	7.7458078	1.6402565	0.1346157	0.42683	-5.003851
MIA3	0.1342517	6.8858341	1.6395671	0.1347604	0.42707	-5.004777
NAAA	-0.132113	8.190671	-1.639449	0.1347852	0.42707	-5.004935
EXO5	-0.114143	7.5949887	-1.639312	0.134814	0.42707	-5.005119
FGF6	0.2422552	7.0441865	1.6388073	0.1349201	0.42707	-5.005796
EPHB2	0.1241457	6.9768919	1.638497	0.1349854	0.42707	-5.006213
DCUN1D2	-0.108216	7.0415278	-1.638477	0.1349896	0.42707	-5.00624
SNORD10	-0.177812	7.2223252	-1.638103	0.1350682	0.42707	-5.006741
ZNF483	-0.217242	8.9052261	-1.638068	0.1350758	0.42707	-5.006789
AZIN2	0.1589147	6.7976286	1.6380386	0.1350819	0.42707	-5.006828
TMEM19	0.101517	7.8350518	1.6379345	0.1351038	0.42707	-5.006968
TPGS2	0.1092883	9.5536656	1.6378573	0.13512	0.42707	-5.007071
PAQR4	-0.205561	9.8163392	-1.637693	0.1351547	0.42707	-5.007292
RABL2A	-0.121642	7.2419666	-1.637656	0.1351624	0.42707	-5.007341
ZNF431	-0.180259	7.4541308	-1.637656	0.1351625	0.42707	-5.007341
LOC401589	0.1626916	7.0292077	1.6374666	0.1352023	0.42707	-5.007595
CTU2	0.1018295	7.3413103	1.637415	0.1352132	0.42707	-5.007664
C16orf58	-0.209857	10.200292	-1.637399	0.1352167	0.42707	-5.007686
CNTFR-AS1	0.1584901	7.0589077	1.637397	0.135217	0.42707	-5.007688
ELMSAN1	0.1280397	8.6514626	1.6370315	0.1352941	0.42709	-5.008179
IL1R2	0.1152601	8.2437314	1.6369853	0.1353038	0.42709	-5.008241
CHRNB4	0.1349369	7.233782	1.6369486	0.1353115	0.42709	-5.00829
MIR1909	0.1293768	7.0126662	1.6367089	0.1353621	0.42716	-5.008611
THAP12	0.1620233	10.867416	1.6361154	0.1354873	0.42735	-5.009407
OCIAD1	-0.16361	10.801173	-1.636026	0.1355063	0.42735	-5.009528
ZNF626	-0.118895	7.3472247	-1.635929	0.1355266	0.42735	-5.009657
MIR761	-0.138211	6.9373626	-1.635868	0.1355395	0.42735	-5.009738
LAPTM4B	-0.112437	6.8777262	-1.635323	0.1356546	0.42741	-5.010469
PIK3R2	-0.132608	10.551104	-1.635314	0.1356567	0.42741	-5.010482

UBE2E1	-0.171399	10.214165	-1.635309	0.1356577	0.42741	-5.010489
DNAJB6	-0.126233	9.8148193	-1.635219	0.1356768	0.42741	-5.01061
SGTB	-0.106529	6.8567042	-1.634981	0.1357271	0.42745	-5.010929
PKDCC	-0.132202	7.0140878	-1.63489	0.1357463	0.42745	-5.011051
PPIL2	-0.102373	7.0231368	-1.634661	0.1357946	0.42748	-5.011357
OR9I1	0.1262455	6.9138986	1.6345569	0.1358167	0.42748	-5.011496
C1GALT1C1	-0.110364	8.1872701	-1.634245	0.1358826	0.42749	-5.011914
LOC1001318	-0.114794	7.0917948	-1.634215	0.135889	0.42749	-5.011954
ENTPD1	0.1143192	7.0171291	1.6341307	0.1359069	0.42749	-5.012068
SGK3	-0.112696	7.5129831	-1.633966	0.1359417	0.42751	-5.012288
TRIM66	-0.129752	8.2999675	-1.633785	0.13598	0.42754	-5.01253
NRF1	-0.103612	6.8898368	-1.633615	0.1360161	0.42756	-5.012759
GRAMD4	0.1472586	7.6119424	1.6332712	0.136089	0.4277	-5.013219
CASZ1	-0.125552	8.2191552	-1.632983	0.13615	0.42779	-5.013605
PFKP	0.1183675	8.512108	1.6328429	0.1361798	0.42779	-5.013793
PIH1D1	0.1353305	8.7170551	1.6327128	0.1362074	0.42779	-5.013967
SENP7	-0.132587	7.3290751	-1.632497	0.136253	0.42784	-5.014256
CORO7	0.1883398	8.1762013	1.6320482	0.1363484	0.42798	-5.014857
SH3BP5	0.1287841	7.0043236	1.6320182	0.1363548	0.42798	-5.014897
KHDC1L	-0.100957	6.9011236	-1.631724	0.1364172	0.42808	-5.015291
CA5BP1	-0.106366	6.9125699	-1.63124	0.13652	0.42831	-5.015939
TCF20	0.1325243	7.899098	1.631089	0.1365522	0.42831	-5.016141
PARP14	0.1018072	6.9169109	1.6309632	0.1365789	0.42831	-5.01631
MRPS12	-0.13217	9.3924596	-1.630097	0.1367633	0.42874	-5.017469
ABCA3	0.1008362	6.745624	1.6300444	0.1367744	0.42874	-5.01754
ARL17B	-0.12932	7.2289722	-1.629838	0.1368184	0.42879	-5.017816
MYOM2	-0.160343	7.7093291	-1.629613	0.1368663	0.42885	-5.018117
TSPAN4	-0.140365	7.1730999	-1.629214	0.1369514	0.42902	-5.018651
NOP14	0.1144674	8.9045391	1.6290067	0.1369955	0.42906	-5.018928
FAAP20	-0.139057	9.0334447	-1.628873	0.137024	0.42906	-5.019106
ADCY1	0.1071327	6.8486221	1.6281379	0.1371809	0.42946	-5.02009
ZNF609	0.1367238	7.533115	1.6277316	0.1372677	0.42957	-5.020633
ZHX3	-0.113548	7.9343738	-1.6277	0.1372745	0.42957	-5.020676
ZNF35	-0.148202	8.3459563	-1.627433	0.1373314	0.42963	-5.021032
DDX31	-0.106642	7.6716825	-1.627142	0.1373937	0.42963	-5.021422
PVT1	-0.118429	7.767383	-1.627095	0.1374037	0.42963	-5.021484
NFE2L1	0.1582072	8.6630511	1.6270652	0.1374101	0.42963	-5.021524
STX19	0.1328628	6.8056206	1.6265493	0.1375204	0.42987	-5.022214
TMEM62	-0.115485	9.0048325	-1.626347	0.1375638	0.42987	-5.022485
WNT8A	-0.130424	6.9882127	-1.626213	0.1375924	0.42987	-5.022663
BTN3A2	-0.112777	7.8541752	-1.62609	0.1376187	0.42987	-5.022828
COG7	0.1309444	7.2594617	1.6259187	0.1376554	0.42987	-5.023057
ST3GAL4	-0.169364	7.0584018	-1.625861	0.1376677	0.42987	-5.023133
ESRRA	0.1961907	9.2268165	1.6257343	0.1376949	0.42987	-5.023303
BCAN	0.1099749	7.1609961	1.6254701	0.1377515	0.42996	-5.023656

VAT1L	-0.115763	6.9798277	-1.625279	0.1377924	0.42999	-5.023911
MIR202	0.1969594	7.060724	1.6239151	0.1380851	0.43075	-5.025733
FAM171A1	0.1220863	7.1365946	1.623867	0.1380954	0.43075	-5.025798
RELB	0.182026	8.8425345	1.6235513	0.1381632	0.43087	-5.026219
OLFML2A	0.1141731	6.8732864	1.6233566	0.138205	0.43091	-5.026479
MINDY3	-0.264027	8.7145752	-1.622829	0.1383184	0.43117	-5.027184
CD68	-0.165296	7.8140903	-1.622471	0.1383956	0.43132	-5.027662
ZNF211	-0.108651	6.7708874	-1.622246	0.138444	0.43132	-5.027962
CCNF	0.1553533	9.7830115	1.6221942	0.1384551	0.43132	-5.028031
SECISBP2L	0.1592687	7.9153798	1.6216026	0.1385825	0.43163	-5.028821
POLRMT	0.169337	8.9810024	1.6214544	0.1386144	0.43164	-5.029018
ALDH8A1	-0.124871	6.9818477	-1.620758	0.1387646	0.4319	-5.029948
CHAF1A	-0.152957	7.8805451	-1.620686	0.1387801	0.4319	-5.030044
MRPL3	-0.130042	10.036597	-1.620655	0.1387868	0.4319	-5.030085
CEP63	0.1051851	7.5219499	1.6204475	0.1388315	0.43192	-5.030362
RASGRP1	-0.283698	8.674497	-1.620352	0.1388521	0.43192	-5.030489
MIR1234	0.1155197	6.9384507	1.6198454	0.1389615	0.43216	-5.031165
SERTAD3	-0.099597	7.6350765	-1.619378	0.1390626	0.43239	-5.031789
AP1AR	-0.142736	7.2020278	-1.618945	0.139156	0.43239	-5.032365
TP53BP1	0.1559801	8.7921457	1.6189069	0.1391643	0.43239	-5.032416
TMPRSS15	0.1359209	7.0839461	1.6188569	0.1391751	0.43239	-5.032483
SNRNP27	-0.106236	9.2015725	-1.618625	0.1392254	0.43239	-5.032793
DNAJC7	0.1702776	9.8147374	1.6186023	0.1392302	0.43239	-5.032822
MFAP3	-0.10288	7.8807781	-1.618535	0.1392447	0.43239	-5.032912
GPSM3	0.1831865	8.8545039	1.6184014	0.1392737	0.43239	-5.03309
PARP16	0.1436355	7.3853417	1.6181869	0.1393201	0.43239	-5.033376
SLC2A4RG	-0.119823	7.4429588	-1.617849	0.1393934	0.43239	-5.033827
RPN2	-0.150835	9.073238	-1.617756	0.1394134	0.43239	-5.03395
PSMB4	0.1018423	11.625007	1.6177306	0.1394189	0.43239	-5.033984
LOC1005075	0.1297842	7.056896	1.6177132	0.1394227	0.43239	-5.034008
CDC45	-0.116458	10.578445	-1.617537	0.1394609	0.43239	-5.034243
CENPC	-0.138291	6.9415974	-1.617454	0.1394788	0.43239	-5.034353
PNP	-0.134739	10.932895	-1.617062	0.1395638	0.43252	-5.034876
PMM2	0.1924715	8.593559	1.6169914	0.1395791	0.43252	-5.03497
CNN2	0.1613088	9.3302094	1.6168231	0.1396156	0.43254	-5.035194
FANCG	-0.278082	8.8848359	-1.616552	0.1396744	0.43263	-5.035555
SP1	0.1353805	8.6695941	1.6161431	0.1397632	0.43281	-5.0361
WARS2	-0.129171	6.9392717	-1.615659	0.1398683	0.43305	-5.036745
FNDC3A	-0.136217	7.8263957	-1.614688	0.1400795	0.43357	-5.038038
KLHL42	0.182844	9.1316176	1.6146099	0.1400964	0.43357	-5.038141
RBBP7	-0.230234	10.120571	-1.614371	0.1401484	0.43364	-5.03846
SNRNP35	-0.126009	7.7718297	-1.61398	0.1402334	0.43381	-5.03898
GALT	-0.11836	8.1409482	-1.613511	0.1403357	0.43391	-5.039605
SEC24C	0.2028612	10.444156	1.6134226	0.1403549	0.43391	-5.039722
BANF1	0.1830792	9.9016874	1.6134208	0.1403553	0.43391	-5.039724

TRIM23	0.1026545	7.3523028	1.6132065	0.140402	0.43396	-5.04001
AGK	-0.116154	9.7242262	-1.612688	0.1405151	0.43422	-5.0407
COX5B	-0.138097	13.065811	-1.612375	0.1405833	0.43426	-5.041116
FOCAD	0.1071304	8.60637	1.6123279	0.1405936	0.43426	-5.041179
COL4A2	0.2034135	7.0415939	1.6121062	0.140642	0.43426	-5.041474
LAMP3	0.1075555	7.1543607	1.6120082	0.1406634	0.43426	-5.041604
HDAC6	0.1307365	7.7680562	1.6119454	0.1406771	0.43426	-5.041687
RNF125	-0.113903	6.950859	-1.611662	0.140739	0.43428	-5.042064
TMC8	0.1070647	7.2564402	1.6112915	0.14082	0.43428	-5.042557
TMEM184C	-0.133412	7.4922174	-1.611285	0.1408215	0.43428	-5.042566
CDKN1B	-0.106453	8.2890096	-1.611261	0.1408266	0.43428	-5.042597
ZNF462	-0.109525	6.7547526	-1.611152	0.1408505	0.43428	-5.042743
SGO2	0.1298458	7.8318793	1.6110955	0.1408628	0.43428	-5.042818
CNR1	0.1235029	7.0138171	1.6106304	0.1409645	0.4345	-5.043436
MIR345	0.1101422	7.2155428	1.6100838	0.1410842	0.43478	-5.044163
IFNAR1	0.1872639	8.1337719	1.6095635	0.1411981	0.43491	-5.044855
MLYCD	-0.148238	7.272626	-1.609215	0.1412745	0.43491	-5.045318
ACAA1	-0.119231	8.8009839	-1.609149	0.141289	0.43491	-5.045406
TYMSOS	-0.169981	8.0829439	-1.608808	0.1413637	0.43491	-5.045858
SLC5A3	0.1884367	7.3733243	1.6087666	0.1413728	0.43491	-5.045914
DUSP16	0.1097563	7.3948519	1.6087068	0.141386	0.43491	-5.045993
MAST2	0.1161673	7.8558612	1.6087017	0.1413871	0.43491	-5.046
DIRAS2	-0.110716	6.949702	-1.608652	0.1413979	0.43491	-5.046066
TMEM132B	-0.100503	6.9793902	-1.608538	0.1414229	0.43491	-5.046217
EPN1	0.166716	11.952611	1.6084999	0.1414313	0.43491	-5.046268
MCHR1	0.1192626	6.9119874	1.6084023	0.1414528	0.43491	-5.046398
CCDC84	-0.123955	7.5728699	-1.608266	0.1414826	0.43491	-5.046579
CREBBP	0.1078225	7.691469	1.6080993	0.1415193	0.43493	-5.0468
CDK5RAP1	-0.108457	8.4882084	-1.607914	0.1415599	0.43496	-5.047046
C18orf21	-0.152284	8.863116	-1.607718	0.141603	0.435	-5.047307
MEX3A	0.1113172	7.3234841	1.6074969	0.1416516	0.43506	-5.0476
CSTF2T	0.1295717	7.2940952	1.6070765	0.141744	0.43518	-5.048159
YOD1	0.1861059	8.3330937	1.6070426	0.1417514	0.43518	-5.048204
KRTAP8-1	0.0991267	6.7468954	1.6068685	0.1417897	0.43521	-5.048435
SNORA59A	0.1297759	7.2207723	1.6063681	0.1418998	0.43535	-5.049099
CLDN9	-0.09884	6.7866763	-1.606261	0.1419234	0.43535	-5.049242
IL7R	0.1736022	7.8471741	1.6062541	0.1419249	0.43535	-5.049251
ACPT	-0.167442	7.0608553	-1.605786	0.1420278	0.43557	-5.049872
MIR503	0.1249983	6.9086781	1.6054589	0.1421	0.43569	-5.050306
RBM7	-0.206927	7.9607688	-1.605343	0.1421254	0.43569	-5.05046
CEACAM19	-0.101511	6.818684	-1.604887	0.1422261	0.4358	-5.051066
PTGS1	-0.104214	7.0606265	-1.604679	0.1422719	0.4358	-5.051341
TMEM186	0.1549089	7.6302037	1.6045653	0.142297	0.4358	-5.051492
SURF4	0.2646257	9.528311	1.6044649	0.1423192	0.4358	-5.051625
PEA15	-0.164619	11.025887	-1.604336	0.1423477	0.4358	-5.051797

CUTA	-0.111784	9.7298782	-1.604291	0.1423575	0.4358	-5.051856
ING5	0.1088602	7.2650466	1.6042334	0.1423703	0.4358	-5.051933
C19orf25	0.170931	7.8181096	1.603781	0.1424702	0.43601	-5.052533
ZRANB2	-0.135502	10.11987	-1.60365	0.1424991	0.43601	-5.052707
EXOC2	0.1116231	8.2350125	1.6034147	0.1425511	0.43601	-5.053019
NF1	-0.134382	7.0819019	-1.603302	0.1425761	0.43601	-5.053169
RPIA	-0.156454	10.543489	-1.603249	0.1425876	0.43601	-5.053238
PAX3	0.1412747	6.9899597	1.6029882	0.1426453	0.43609	-5.053584
RNF24	0.144731	7.4606017	1.6025233	0.1427482	0.43631	-5.054201
PCDH8	-0.14934	6.8169717	-1.602399	0.1427756	0.43631	-5.054365
CDK7	-0.145513	9.8731868	-1.601916	0.1428825	0.43654	-5.055006
COX20	-0.15602	8.9154911	-1.601545	0.1429648	0.4367	-5.055498
KIR2DL2	0.1037625	6.9244223	1.6010722	0.1430696	0.43687	-5.056125
XRCC2	-0.132982	8.0164421	-1.601026	0.1430798	0.43687	-5.056186
ENTPD3	0.110634	7.2199773	1.6007346	0.1431444	0.43694	-5.056572
ATG9A	0.1473272	8.016952	1.6006524	0.1431626	0.43694	-5.056681
TGIF2	-0.104619	9.8440107	-1.600285	0.1432442	0.4371	-5.057168
SNORD22	-0.128173	7.4916038	-1.59987	0.1433362	0.43729	-5.057717
XK	0.1170981	6.7138306	1.5993514	0.1434515	0.43744	-5.058405
PTPN7	0.1221573	7.4201496	1.5992858	0.1434661	0.43744	-5.058491
AFF4	0.1914321	8.3387351	1.599245	0.1434752	0.43744	-5.058546
DEFB116	0.1449063	6.8678281	1.5983686	0.1436701	0.43792	-5.059706
PLCD1	-0.107754	6.9485987	-1.598271	0.1436918	0.43792	-5.059836
SPIRE1	0.1504277	9.132561	1.5978811	0.1437786	0.43809	-5.060352
PMS2P5	0.1213446	9.1139793	1.5975375	0.1438551	0.43823	-5.060806
TMEM199	-0.139675	8.818294	-1.596849	0.1440086	0.43859	-5.061718
RUSC2	0.1060453	6.8586742	1.5966423	0.1440547	0.43859	-5.061991
UBE3C	0.1432693	9.9172939	1.5966036	0.1440633	0.43859	-5.062043
AMIGO1	0.1011935	6.9248825	1.5962675	0.1441383	0.43866	-5.062487
PCDH7	0.2047784	6.9081364	1.5962324	0.1441461	0.43866	-5.062534
FAM187B	-0.10947	7.0086718	-1.595409	0.14433	0.43912	-5.063623
RBM23	0.1338771	10.161832	1.5952214	0.1443719	0.43912	-5.063871
NSMCE3	-0.124091	7.832895	-1.595153	0.1443872	0.43912	-5.063961
NT5DC2	0.2984601	9.1309357	1.5949739	0.1444273	0.43915	-5.064199
CAMK1G	-0.184056	7.794535	-1.594673	0.1444946	0.43926	-5.064597
CEP70	-0.118374	7.0053023	-1.594406	0.1445543	0.43935	-5.06495
UBE2L6	-0.142207	10.57101	-1.593276	0.1448074	0.44001	-5.066444
PRKAG2	-0.133056	7.756041	-1.593045	0.1448591	0.44001	-5.066749
RXFP4	-0.120076	6.9200253	-1.593036	0.1448611	0.44001	-5.06676
ALMS1	0.1325661	7.3654182	1.5924098	0.1450016	0.44034	-5.067588
SASH3	0.1554061	9.6625047	1.5920289	0.1450871	0.44051	-5.068092
LYRM1	-0.136097	9.9122109	-1.591798	0.1451389	0.44051	-5.068397
UNC13C	-0.185379	7.0230184	-1.591759	0.1451477	0.44051	-5.068448
FBXO46	0.1225406	7.7356325	1.5915932	0.1451849	0.44053	-5.068667
GPAT4	-0.118804	6.9676801	-1.591389	0.1452308	0.44058	-5.068937

LAP3	0.137421	10.886679	1.5908054	0.1453619	0.44082	-5.069708
IER3IP1	-0.1743	8.2717925	-1.590669	0.1453926	0.44082	-5.069888
ELF1	0.1348632	10.692297	1.5905723	0.1454144	0.44082	-5.070016
DCAF17	-0.113761	7.4110182	-1.5905	0.1454305	0.44082	-5.07011
LOC1001321	-0.184347	7.2679607	-1.59017	0.145505	0.44091	-5.070547
NRAV	-0.126083	7.2457759	-1.590101	0.1455204	0.44091	-5.070638
CFAP57	0.1121815	6.9975245	1.5898724	0.1455719	0.44093	-5.07094
SOWAHC	-0.113495	6.7435541	-1.589586	0.1456364	0.44093	-5.071318
ERMAP	-0.099216	7.1330171	-1.589564	0.1456413	0.44093	-5.071347
KIAA0907	-0.179172	9.8780767	-1.589538	0.1456473	0.44093	-5.071382
MOS	-0.154654	7.1311846	-1.589165	0.1457312	0.44109	-5.071873
RNF32	-0.107254	6.8382983	-1.588867	0.1457984	0.4412	-5.072267
HMG20B	-0.194572	9.8414578	-1.588539	0.1458724	0.4413	-5.0727
SERPINH1	-0.20003	7.1227796	-1.588462	0.1458897	0.4413	-5.072801
GPATCH3	0.1014637	8.2278485	1.5882964	0.1459271	0.44132	-5.07302
BCL11A	0.119889	9.2206202	1.58732	0.1461476	0.44189	-5.074308
CRELD2	0.1997659	10.764141	1.5864178	0.1463516	0.44222	-5.075498
ZNRD1	-0.108581	9.1677856	-1.586391	0.1463576	0.44222	-5.075533
RAB4A	-0.127323	6.6852565	-1.586381	0.14636	0.44222	-5.075547
ABHD17C	0.1148692	9.1178642	1.586218	0.1463968	0.44222	-5.075761
MTHFD1	0.1240196	8.8333682	1.5860723	0.1464298	0.44222	-5.075954
ZNF583	-0.112572	7.8913821	-1.58604	0.146437	0.44222	-5.075996
F3	0.1048513	6.8652935	1.585848	0.1464806	0.44226	-5.076249
CCDC136	-0.144416	7.6232482	-1.585652	0.1465249	0.4423	-5.076508
ARID4A	0.1134387	7.2412456	1.5851079	0.1466482	0.44255	-5.077225
ATP1A1	0.1585379	10.44009	1.5849881	0.1466754	0.44255	-5.077383
ARF3	0.2048142	9.3958357	1.5845804	0.1467678	0.44255	-5.07792
AKR1C3	-0.115661	6.7804289	-1.584572	0.1467696	0.44255	-5.077931
AGER	-0.117801	6.9516496	-1.584183	0.1468579	0.44255	-5.078443
CR2	0.1045699	9.0363336	1.583962	0.1469081	0.44255	-5.078735
HSPA9	0.1799879	12.306935	1.5838843	0.1469258	0.44255	-5.078837
TGOLN2	0.1370418	9.2332389	1.5835394	0.1470041	0.44255	-5.079292
SNORA35	0.107239	6.8805256	1.5834572	0.1470228	0.44255	-5.0794
ST13	0.100135	9.7609098	1.583377	0.147041	0.44255	-5.079506
SNRPD3	0.1629274	7.9716617	1.5830874	0.1471068	0.44255	-5.079887
ZNF304	0.1290345	7.2335421	1.5830343	0.1471189	0.44255	-5.079957
RPL30	-0.119755	14.300779	-1.58285	0.1471607	0.44255	-5.0802
CD79B	-0.112029	12.345433	-1.582843	0.1471624	0.44255	-5.08021
ZIC3	0.111623	6.787422	1.5828306	0.1471652	0.44255	-5.080225
BIRC3	0.1323592	10.390482	1.5828012	0.1471719	0.44255	-5.080264
IQCH	0.1640823	6.9779361	1.5823103	0.1472835	0.44255	-5.080911
FTH1P11	-0.186847	9.8851964	-1.582282	0.1472898	0.44255	-5.080947
NCBP2	0.1171578	8.6338139	1.5822239	0.1473032	0.44255	-5.081024
ZDHHC8	-0.195003	10.634623	-1.582125	0.1473257	0.44255	-5.081155
GTF2B	-0.132667	8.97416	-1.582099	0.1473316	0.44255	-5.081189

POLA2	-0.159621	9.9805704	-1.581971	0.1473608	0.44255	-5.081358
LOC401357	0.1340641	7.9946161	1.5819323	0.1473696	0.44255	-5.081408
SPRR2E	-0.113391	7.0206463	-1.581878	0.147382	0.44255	-5.08148
ZNF658B	-0.103003	7.0007116	-1.581633	0.1474377	0.44255	-5.081802
CD3G	-0.102131	6.8445188	-1.581502	0.1474676	0.44255	-5.081975
RFX4	-0.137569	7.1520963	-1.581457	0.1474779	0.44255	-5.082034
M6PR	0.1829193	10.454137	1.5813911	0.1474928	0.44255	-5.082121
TSLP	0.1255887	6.9984157	1.5810778	0.1475642	0.44255	-5.082533
KRT6B	0.1206016	7.0014865	1.5809485	0.1475937	0.44255	-5.082703
CEACAM21	-0.116446	7.0052065	-1.580941	0.1475954	0.44255	-5.082714
ACO2	0.1672981	9.4189527	1.5809404	0.1475955	0.44255	-5.082714
ZNF699	-0.111739	6.8601582	-1.580886	0.1476079	0.44255	-5.082786
PLEC	0.1071042	6.9226633	1.5804218	0.1477138	0.44278	-5.083397
FOXE3	0.2104896	7.2050544	1.5800318	0.1478028	0.44295	-5.08391
PPP2R2D	-0.103568	8.6681175	-1.579617	0.1478975	0.44315	-5.084456
IMPDH1	0.132831	8.2833535	1.5792335	0.1479851	0.44332	-5.08496
NCOA3	0.1091084	8.5457277	1.5788021	0.1480837	0.44352	-5.085527
UGGT2	0.1367565	7.0073421	1.5785347	0.1481448	0.44361	-5.085879
TRIP6	-0.127801	7.0030235	-1.578287	0.1482016	0.44369	-5.086205
PCSK1	0.1551629	6.7577444	1.578129	0.1482376	0.44371	-5.086412
LIG3	-0.10556	7.7527218	-1.577823	0.1483076	0.44376	-5.086814
ADH5	-0.111491	8.0079436	-1.577785	0.1483165	0.44376	-5.086865
TJAP1	-0.166382	9.544032	-1.577473	0.1483878	0.44389	-5.087275
GOLPH3	0.1177855	9.9403193	1.5771474	0.1484624	0.44392	-5.087703
NBEA	0.1183322	7.0492358	1.5771329	0.1484657	0.44392	-5.087722
SPRR1A	0.1138517	7.5228222	1.5770216	0.1484912	0.44392	-5.087868
CDKN2D	0.0949765	7.2622053	1.5765369	0.1486024	0.44416	-5.088505
DCUN1D1	0.1534593	8.5225796	1.5763942	0.1486351	0.44417	-5.088693
B4GALT6	0.1125404	6.8290509	1.5761486	0.1486915	0.44425	-5.089016
MIR623	-0.102377	6.8298921	-1.575951	0.1487368	0.44429	-5.089275
RFC2	-0.127757	7.6797318	-1.575605	0.1488162	0.4443	-5.089729
OR2H2	-0.108733	6.9855748	-1.575604	0.1488164	0.4443	-5.089731
PP14571	0.1265052	7.1724353	1.5753489	0.1488751	0.4443	-5.090066
RAB8A	0.1201175	10.654397	1.5753361	0.148878	0.4443	-5.090083
MFSD5	0.2058967	8.6140567	1.5752205	0.1489045	0.4443	-5.090235
ELAC2	0.1538981	8.894157	1.5751491	0.148921	0.4443	-5.090329
EDARADD	0.1216312	7.1968212	1.5749805	0.1489597	0.44432	-5.09055
C9orf78	0.1392557	11.18317	1.5745647	0.1490553	0.4445	-5.091096
ARHGEF10L	0.1238281	7.1767783	1.5743522	0.1491042	0.4445	-5.091375
COLGALT1	0.160905	10.193944	1.5743252	0.1491104	0.4445	-5.091411
OSBPL2	-0.151573	7.7147082	-1.573705	0.1492532	0.4448	-5.092225
RBM26	0.1716953	8.6774587	1.5734627	0.1493089	0.4448	-5.092543
BCAT2	0.1221244	9.3352456	1.5733126	0.1493435	0.4448	-5.09274
TTTY15	0.1293442	7.3152148	1.5732341	0.1493616	0.4448	-5.092843
TTYH2	-0.128395	7.1226888	-1.573122	0.1493875	0.4448	-5.09299

ZDHHC13	-0.101883	7.7860066	-1.573097	0.1493932	0.4448	-5.093023
LINC00452	-0.141273	7.2225227	-1.571792	0.1496941	0.44556	-5.094735
AKAP11	0.1377615	7.941858	1.5716492	0.1497271	0.44556	-5.094923
C16orf89	0.1349701	6.908682	1.5715862	0.1497417	0.44556	-5.095005
ECH1	-0.099536	10.411303	-1.570872	0.1499066	0.44596	-5.095942
CD3EAP	-0.123635	7.8930302	-1.57038	0.1500205	0.44615	-5.096588
LAMTOR5	-0.120301	9.4271545	-1.570201	0.1500618	0.44615	-5.096822
GRWD1	0.1930501	9.6947886	1.5700716	0.1500918	0.44615	-5.096992
STIP1	0.1700458	10.601133	1.5700626	0.1500938	0.44615	-5.097004
PIAS3	0.1948885	7.8047109	1.5697586	0.1501642	0.44622	-5.097402
ARAP1	0.1420742	7.6882642	1.5695903	0.1502032	0.44622	-5.097623
NEXN	0.1099408	6.939149	1.5695691	0.1502081	0.44622	-5.097651
PDP1	-0.130017	7.1278564	-1.56939	0.1502495	0.44625	-5.097885
SCRT1	-0.101161	6.879114	-1.569185	0.150297	0.4463	-5.098154
SNORD104	-0.163516	9.3613253	-1.568948	0.1503519	0.44631	-5.098465
ZDHHC8P1	-0.098852	6.96589	-1.568918	0.1503589	0.44631	-5.098504
TEDDM1	-0.116968	6.9429423	-1.567713	0.1506383	0.44704	-5.100082
RAD51D	0.1230777	7.5228358	1.5671031	0.15078	0.44727	-5.100882
C7orf49	-0.101672	8.442378	-1.56705	0.1507925	0.44727	-5.100952
STN1	-0.095881	7.823523	-1.566882	0.1508313	0.44727	-5.101171
CPNE3	0.1195045	10.497699	1.5668651	0.1508353	0.44727	-5.101194
CD38	-0.121929	9.3592772	-1.566458	0.1509301	0.44739	-5.101727
UBN1	0.1237642	8.3186218	1.5661712	0.1509967	0.44739	-5.102102
OGDH	0.1322396	7.5564056	1.5661161	0.1510095	0.44739	-5.102174
POLR3A	0.1821948	9.2284787	1.5660768	0.1510187	0.44739	-5.102226
ENC1	0.1061239	6.9813745	1.5660055	0.1510352	0.44739	-5.102319
KIF13B	-0.105306	6.8337566	-1.565889	0.1510623	0.44739	-5.102471
SNU13	-0.098897	9.9856462	-1.564884	0.1512964	0.44797	-5.103787
NDUFA10	-0.121616	9.5165985	-1.564772	0.1513225	0.44797	-5.103933
ATP2B4	0.1076864	7.8609625	1.5646512	0.1513507	0.44797	-5.104092
ECSCR	-0.11574	6.896486	-1.56441	0.151407	0.44804	-5.104408
SLC25A40	0.1015582	7.8571238	1.5642842	0.1514362	0.44804	-5.104572
RTTN	-0.170027	9.0040416	-1.564158	0.1514658	0.44804	-5.104738
EDC4	-0.162907	9.6754398	-1.563454	0.1516299	0.44828	-5.105658
NAT10	0.1262244	11.237295	1.5634525	0.1516303	0.44828	-5.10566
RBBP6	-0.100692	7.1977666	-1.563421	0.1516377	0.44828	-5.105701
CNEP1R1	-0.133448	8.385873	-1.563129	0.1517058	0.44839	-5.106082
TCF12	0.0995479	8.0077007	1.5629397	0.1517501	0.44841	-5.106331
BTNL10	-0.107418	7.6196247	-1.56282	0.1517781	0.44841	-5.106487
NAGK	-0.102966	9.1200763	-1.562701	0.151806	0.44841	-5.106643
SMIM11A	-0.10326	8.1796278	-1.562196	0.151924	0.44863	-5.107303
RAB42	-0.130518	6.9548408	-1.562117	0.1519424	0.44863	-5.107406
ANKRD53	-0.13458	6.9708043	-1.56189	0.1519956	0.4487	-5.107704
EARS2	0.1361374	8.8045831	1.5617539	0.1520274	0.4487	-5.107881
ZNF280B	-0.142817	7.0947366	-1.561505	0.1520856	0.44878	-5.108206

TTC33	-0.188134	7.9913999	-1.561171	0.152164	0.44884	-5.108644
CTH	-0.095844	7.3534351	-1.561095	0.1521817	0.44884	-5.108742
KIAA0355	0.1565303	8.5861719	1.5609508	0.1522155	0.44884	-5.108931
CTSZ	0.2668738	8.6744626	1.5609021	0.1522269	0.44884	-5.108994
C1QTNF9B	0.1306781	7.0743923	1.560538	0.1523122	0.449	-5.10947
CYB5B	0.129255	12.083876	1.5600167	0.1524345	0.44909	-5.110151
ME3	-0.093787	6.8393053	-1.559978	0.1524436	0.44909	-5.110202
SPATA31A1	-0.105121	6.8976119	-1.559895	0.152463	0.44909	-5.11031
RBSN	0.1243724	9.1779659	1.5597781	0.1524905	0.44909	-5.110463
NFYC-AS1	0.1125927	7.4388806	1.5595593	0.1525418	0.44909	-5.110749
MSRA	0.0952118	6.8128488	1.5594985	0.1525561	0.44909	-5.110828
CFH	0.1274232	7.1320019	1.559496	0.1525567	0.44909	-5.110832
ORC6	-0.109729	11.443911	-1.559215	0.1526226	0.44919	-5.111198
REEP2	-0.096461	6.8421179	-1.558916	0.152693	0.44931	-5.11159
MRPL54	-0.114385	10.772795	-1.558467	0.1527984	0.44952	-5.112175
OGDHL	0.1193379	6.810396	1.5575076	0.1530241	0.45003	-5.113428
MAPK3	-0.118058	9.0989852	-1.557473	0.1530323	0.45003	-5.113473
TXLNG	0.1047002	8.0245723	1.5569953	0.1531448	0.45027	-5.114096
EFNA3	-0.0988	6.9480671	-1.556782	0.153195	0.45031	-5.114374
LOC606724	0.1517353	8.6424881	1.556673	0.1532207	0.45031	-5.114517
FES	-0.171052	7.0339134	-1.556464	0.1532699	0.45037	-5.114789
GRHPR	-0.11756	11.394558	-1.55622	0.1533276	0.4504	-5.115108
MMADHC	-0.110842	10.938952	-1.556134	0.1533478	0.4504	-5.11522
CLDN7	0.1102868	6.7976648	1.5560305	0.1533722	0.4504	-5.115355
ERCC4	-0.107802	6.8727758	-1.555551	0.1534854	0.45064	-5.115981
GPR156	0.1927424	7.075611	1.5552855	0.153548	0.45073	-5.116327
UBXN11	0.0988829	7.1794209	1.5550446	0.1536049	0.4508	-5.116641
GLIDR	-0.134092	6.9325985	-1.554923	0.1536337	0.4508	-5.1168
ZNF644	0.133338	8.0636419	1.5543082	0.1537789	0.45105	-5.117601
MFAP1	0.1129149	9.3993922	1.5543011	0.1537806	0.45105	-5.117611
ALDH16A1	0.1221472	7.7208685	1.553817	0.1538951	0.45129	-5.118242
ERCC5	0.1504311	8.6965147	1.5536829	0.1539269	0.45129	-5.118416
FEM1A	-0.168899	9.905821	-1.55348	0.1539748	0.45129	-5.11868
PLXDC2	0.0926452	6.7736943	1.5534292	0.1539869	0.45129	-5.118747
FAM72D	-0.145609	8.7272328	-1.55329	0.1540199	0.4513	-5.118929
RAB33A	-0.112491	8.5680462	-1.552927	0.1541059	0.45146	-5.119402
ZBTB41	0.1048834	6.9479421	1.5526926	0.1541614	0.45147	-5.119707
GATD1	0.1128816	8.0445467	1.5526089	0.1541812	0.45147	-5.119816
EFEMP2	-0.132129	6.8415666	-1.552457	0.1542171	0.45147	-5.120013
ERCC2	0.1404809	7.7684554	1.5523866	0.1542339	0.45147	-5.120106
KCTD3	0.0980924	8.4369848	1.5517846	0.1543767	0.45164	-5.12089
ECHDC1	-0.16699	7.5132218	-1.551706	0.1543953	0.45164	-5.120992
BTF3	0.1359403	11.856878	1.5516691	0.1544041	0.45164	-5.12104
XPR1	0.1105835	8.3540961	1.5514307	0.1544606	0.45164	-5.121351
AVPI1	-0.115168	6.8795162	-1.551405	0.1544667	0.45164	-5.121384

SHISA3	0.0979268	6.8954282	1.5512462	0.1545044	0.45164	-5.121591
OGFOD1	0.1388245	8.8397853	1.5512299	0.1545083	0.45164	-5.121612
MARCKS	-0.159891	7.3571791	-1.550975	0.1545687	0.45173	-5.121944
HLA-DOA	0.155598	9.7331367	1.5507186	0.1546298	0.45182	-5.122278
H3F3B	0.1489564	9.6288601	1.5504952	0.1546828	0.45188	-5.122569
KIAA1524	0.1148763	7.3848122	1.5501282	0.1547701	0.45205	-5.123047
SPATA4	-0.113796	7.0674971	-1.549557	0.154906	0.45235	-5.12379
TEF	0.1270869	7.7083825	1.5493099	0.1549648	0.45237	-5.124112
WASHC1	-0.165814	9.3572759	-1.549164	0.1549994	0.45237	-5.124301
MLLT10	-0.126266	8.0677409	-1.549077	0.1550202	0.45237	-5.124414
FRMD8	-0.123757	9.8073857	-1.549016	0.1550347	0.45237	-5.124493
OR2AK2	-0.106433	6.8206297	-1.54873	0.1551028	0.45244	-5.124866
SCYL2	0.1329129	8.9940018	1.5485208	0.1551527	0.45244	-5.125138
ARRDC3	0.1296541	7.0906428	1.5483349	0.155197	0.45244	-5.12538
NPRL3	-0.102741	7.9534207	-1.548142	0.155243	0.45244	-5.125631
STAB2	0.0989704	6.834822	1.5480901	0.1552554	0.45244	-5.125699
FAM209A	-0.096269	6.7913595	-1.548086	0.1552564	0.45244	-5.125704
TAGLN2	0.2393524	10.789004	1.5480047	0.1552758	0.45244	-5.12581
UTP15	-0.123202	8.510644	-1.547615	0.1553686	0.45255	-5.126316
LRIG2	-0.09969	7.6454122	-1.547467	0.1554041	0.45255	-5.126509
GGTLC1	-0.115922	7.1797899	-1.547447	0.1554087	0.45255	-5.126535
SLC25A18	-0.133645	6.8915514	-1.54695	0.1555275	0.45281	-5.127182
DTD1	-0.140882	8.8517711	-1.546773	0.1555697	0.45284	-5.127411
GSG2	0.1210673	8.1657181	1.5466323	0.1556034	0.45285	-5.127594
VMP1	-0.182756	9.6697698	-1.54642	0.1556541	0.4529	-5.12787
FZD3	0.1385326	7.4952461	1.5459708	0.1557615	0.45304	-5.128454
SUGT1	0.1026355	8.5184647	1.545907	0.1557768	0.45304	-5.128537
AHR	-0.131205	8.7804721	-1.545835	0.1557941	0.45304	-5.128631
NSMAF	-0.182538	10.35202	-1.54541	0.1558956	0.45317	-5.129183
TRA2B	-0.199901	11.091625	-1.545327	0.1559156	0.45317	-5.129291
PPOX	-0.10745	7.9399913	-1.544913	0.1560145	0.45317	-5.129828
NAP1L4	0.1263593	11.278845	1.5447236	0.15606	0.45317	-5.130075
LILRA5	0.1411092	7.0804239	1.5445503	0.1561015	0.45317	-5.1303
PID1	-0.114059	6.9203234	-1.544536	0.1561049	0.45317	-5.130318
SKA3	-0.123265	8.3274426	-1.544509	0.1561115	0.45317	-5.130354
SLCO3A1	0.1651898	7.9081721	1.5444101	0.1561351	0.45317	-5.130482
RSF1	0.1042235	7.3807685	1.5443811	0.1561421	0.45317	-5.13052
OIP5	0.1132703	9.3333783	1.5443546	0.1561484	0.45317	-5.130554
RAB3GAP1	0.124287	10.052998	1.5441151	0.1562058	0.45322	-5.130865
H3F3AP4	0.1212993	11.061475	1.5439473	0.1562461	0.45322	-5.131083
TRIM43	0.1095529	7.0312978	1.5438963	0.1562583	0.45322	-5.131149
TDRD12	0.1406247	7.0468597	1.5436076	0.1563275	0.45333	-5.131524
RPP25	0.0983011	6.7754259	1.5434324	0.1563696	0.45336	-5.131752
BCKDHA	-0.200461	9.2017774	-1.543192	0.1564274	0.45344	-5.132065
TANK	-0.128691	8.7638352	-1.542828	0.1565146	0.4536	-5.132536

TTLL8	-0.182412	6.9519876	-1.542673	0.1565519	0.45362	-5.132738
LINC02315	0.1222796	6.8920583	1.5424817	0.1565979	0.45366	-5.132986
PACRG	0.1268428	6.8351049	1.5423106	0.156639	0.45369	-5.133208
ZSCAN29	-0.141227	7.1130783	-1.542138	0.1566804	0.45372	-5.133432
MIR658	-0.126267	7.1695036	-1.54195	0.1567257	0.45372	-5.133676
PRB3	0.0925547	6.913201	1.5418856	0.1567411	0.45372	-5.13376
PPAN	0.1664427	8.4639206	1.5414432	0.1568476	0.45379	-5.134334
P2RY8	0.2823429	10.247625	1.5414095	0.1568557	0.45379	-5.134378
SFI1	-0.138976	7.4009405	-1.541376	0.1568638	0.45379	-5.134422
PARP12	-0.123301	6.8943522	-1.541264	0.1568907	0.45379	-5.134566
PHLDB1	-0.115055	6.8410518	-1.53997	0.1572024	0.45449	-5.136245
CANT1	0.1634053	8.3762832	1.5398821	0.1572236	0.45449	-5.136359
KDM2B	0.0942047	8.5299488	1.5398653	0.1572276	0.45449	-5.136381
WARS	0.1456324	10.79509	1.5396962	0.1572684	0.45452	-5.1366
MDK	0.0935857	7.1737911	1.5389887	0.1574391	0.4548	-5.137517
HSPA1L	-0.123394	6.8549382	-1.538979	0.1574415	0.4548	-5.13753
CCDC90B	-0.110246	9.1277332	-1.538908	0.1574585	0.4548	-5.137622
HLA-DRB6	-0.171034	10.262355	-1.538256	0.1576162	0.45509	-5.138468
ZBTB24	0.1665464	8.9119137	1.5382285	0.1576228	0.45509	-5.138503
ZDHHC2	0.1077232	7.1945765	1.5379246	0.1576962	0.45513	-5.138897
HOXC13	-0.102106	7.2188805	-1.537857	0.1577126	0.45513	-5.138984
RUNX3	0.1251215	9.3226912	1.5377962	0.1577273	0.45513	-5.139063
RNF135	-0.098698	6.834616	-1.53738	0.157828	0.45527	-5.139602
ALDH2	-0.11084	6.9395342	-1.537333	0.1578394	0.45527	-5.139664
TRIM61	-0.196293	8.130937	-1.536909	0.1579419	0.45548	-5.140212
C4orf36	0.109434	6.8113372	1.5365015	0.1580406	0.45567	-5.14074
DUSP10	0.1020432	7.7150285	1.5363745	0.1580714	0.45567	-5.140905
RHOH	0.1043149	8.713707	1.5360931	0.1581396	0.45575	-5.141269
RPP38	-0.111872	7.5933854	-1.535999	0.1581623	0.45575	-5.141391
CASP12	-0.117377	6.8945416	-1.53582	0.1582057	0.45579	-5.141622
CEACAM1	-0.109762	7.2740361	-1.535645	0.1582481	0.45582	-5.141849
SLC25A30	-0.12918	6.7730453	-1.534946	0.1584178	0.4561	-5.142754
TUBB6	0.1382651	7.8591782	1.5349119	0.1584261	0.4561	-5.142798
LBR	0.1542585	8.3189192	1.5348558	0.1584397	0.4561	-5.142871
SPHK2	0.1199249	10.356456	1.5345374	0.158517	0.45611	-5.143283
SUCO	-0.18014	6.9379467	-1.534451	0.158538	0.45611	-5.143395
LINC01000	-0.094386	6.8813053	-1.534441	0.1585404	0.45611	-5.143408
LINC00636	0.1233834	7.1651548	1.534334	0.1585664	0.45611	-5.143546
C3orf36	-0.127597	7.0190616	-1.534147	0.1586119	0.45615	-5.143789
UQCRHL	-0.176474	13.109621	-1.533566	0.1587532	0.4564	-5.144541
ANXA6	-0.102858	8.1007225	-1.533524	0.1587633	0.4564	-5.144594
PTGER4	0.1317964	9.863104	1.5333363	0.158809	0.45644	-5.144837
HIRA	0.1119663	7.0432688	1.532926	0.1589088	0.45664	-5.145368
LOC1005072	0.1168689	7.3054039	1.5324481	0.1590252	0.45688	-5.145986
ZNF395	0.1638141	8.3345738	1.5318917	0.1591608	0.45711	-5.146706

SNRPA	0.144488	9.8387979	1.5318561	0.1591694	0.45711	-5.146752
IQGAP1	0.160339	8.4867372	1.5317417	0.1591973	0.45711	-5.146899
MRPS17	-0.090212	10.2417	-1.531202	0.159329	0.45737	-5.147598
PITPNC1	0.119432	7.8581795	1.5311176	0.1593496	0.45737	-5.147706
DENND2D	-0.104751	7.722309	-1.530945	0.1593917	0.4574	-5.14793
CD86	0.1115716	9.4599026	1.5307748	0.1594332	0.45743	-5.148149
FAM120C	0.0981274	6.9934618	1.5305987	0.1594762	0.45746	-5.148377
SPSB2	0.1469259	7.954249	1.5296074	0.1597184	0.45795	-5.149658
EHHADH	-0.111152	6.8797241	-1.52956	0.15973	0.45795	-5.149719
MCM3AP-AS	0.1640715	7.6844493	1.5294281	0.1597623	0.45795	-5.149889
EIF4A2	-0.132149	12.628176	-1.529383	0.1597733	0.45795	-5.149947
C9orf16	0.1017435	7.9777197	1.5289053	0.1598902	0.45797	-5.150565
TNPO3	0.2152673	8.8704818	1.5289044	0.1598904	0.45797	-5.150566
ZNF664	0.1475427	7.6164413	1.5288658	0.1598998	0.45797	-5.150616
TBX3	0.1060554	6.9185037	1.5288494	0.1599039	0.45797	-5.150637
NUDT9	-0.105124	7.8035371	-1.52854	0.1599796	0.45809	-5.151036
TRMT61A	0.1660632	8.1019533	1.5281778	0.1600683	0.45826	-5.151504
NYAP2	0.0992858	6.9832967	1.5277798	0.1601659	0.45845	-5.152018
SAMD10	0.1039222	7.0707992	1.5275699	0.1602173	0.4585	-5.152289
ENO3	-0.11945	7.2937348	-1.5269	0.1603817	0.45888	-5.153154
FTH1P2	-0.11802	9.1559946	-1.526049	0.1605906	0.45939	-5.154252
CMPK2	-0.116582	6.8022642	-1.525322	0.1607692	0.45973	-5.155189
PCGF5	-0.103881	7.6497813	-1.525128	0.1608169	0.45973	-5.155439
LGR6	0.1586368	6.9780173	1.5250311	0.1608408	0.45973	-5.155564
USP48	0.099582	8.4110628	1.5250119	0.1608456	0.45973	-5.155589
ABCA11P	-0.136976	7.0626523	-1.524925	0.160867	0.45973	-5.155702
EPB41	0.1152684	7.5398171	1.5247683	0.1609055	0.45975	-5.155903
C16orf62	-0.126875	7.1279482	-1.524537	0.1609625	0.45979	-5.156202
SMOX	-0.107518	6.9100915	-1.524462	0.1609809	0.45979	-5.156298
DUX3	0.0921062	6.8928053	1.5241221	0.1610646	0.45979	-5.156737
CLK4	-0.126213	7.6546502	-1.52408	0.161075	0.45979	-5.156791
LYZ	-0.113425	6.9522902	-1.524071	0.1610772	0.45979	-5.156803
PTX4	0.1410125	7.0134423	1.5237804	0.1611488	0.45988	-5.157177
NVL	-0.114346	8.8269083	-1.523589	0.1611959	0.45988	-5.157423
BCKDK	-0.201209	10.695444	-1.523516	0.1612139	0.45988	-5.157518
C18orf54	0.1307407	7.260277	1.5232112	0.1612891	0.45988	-5.157911
ALDH1A2	-0.107336	6.8994792	-1.52318	0.1612969	0.45988	-5.157951
ABHD4	0.1375921	7.0600391	1.5230756	0.1613226	0.45988	-5.158085
METTL13	-0.101568	9.3232945	-1.522984	0.1613451	0.45988	-5.158203
CYC1	0.1388106	12.602673	1.5228702	0.1613733	0.45988	-5.15835
ABCC6	-0.091694	6.8574639	-1.522794	0.161392	0.45988	-5.158448
TYSND1	-0.091633	8.295444	-1.522069	0.1615712	0.46029	-5.159383
PEX16	-0.096678	8.3007342	-1.52189	0.1616153	0.46029	-5.159613
PDSS1	-0.091367	9.7159527	-1.521829	0.1616304	0.46029	-5.159692
FAF1	0.1223531	9.3814708	1.5211725	0.1617926	0.46066	-5.160537

TUBA1C	0.1260882	13.411921	1.5208367	0.1618757	0.46074	-5.160969
IL16	0.1133324	7.907846	1.5208148	0.1618811	0.46074	-5.160997
YWHAQ	0.1712056	13.059238	1.5203256	0.1620022	0.46099	-5.161627
FAM98B	-0.098049	7.0260213	-1.520114	0.1620546	0.46104	-5.1619
EMSY	0.1212508	6.9426552	1.5199831	0.162087	0.46104	-5.162068
ZNF777	-0.107325	8.0072854	-1.519872	0.1621146	0.46104	-5.162211
MOCS3	-0.091084	6.9047195	-1.519725	0.1621509	0.46105	-5.1624
YPEL1	-0.12654	6.9620345	-1.519372	0.1622386	0.46114	-5.162855
CASP1	-0.131695	7.9040966	-1.51935	0.1622439	0.46114	-5.162883
AP3D1	0.1687175	8.2065873	1.5189991	0.1623309	0.4613	-5.163334
PLXNB1	0.0968314	6.7081374	1.5187782	0.1623857	0.46136	-5.163619
NTAN1	-0.108667	8.3674106	-1.518503	0.1624541	0.46139	-5.163973
MALSU1	0.1156016	11.570928	1.5184361	0.1624706	0.46139	-5.164059
KIRREL3-AS2	-0.102503	7.0637	-1.518361	0.1624893	0.46139	-5.164156
NCALD	-0.143449	8.9471887	-1.518197	0.1625299	0.46141	-5.164366
TMEM170B	0.2243037	8.4222714	1.517927	0.162597	0.46151	-5.164714
GCSAM	-0.100292	8.3829833	-1.517769	0.1626363	0.46154	-5.164917
GALNT1	0.2245638	8.5443165	1.5175499	0.1626907	0.4616	-5.165199
SPATA2L	-0.12975	8.0065694	-1.517057	0.1628132	0.46186	-5.165832
RBPJL	-0.108526	6.9484216	-1.516795	0.1628783	0.46195	-5.166169
MIR641	-0.148585	6.8934121	-1.516424	0.1629707	0.46204	-5.166646
RPL12P1	-0.141276	7.9422204	-1.516423	0.1629709	0.46204	-5.166647
MPP2	0.1173363	7.0159239	1.5158424	0.1631155	0.46236	-5.167394
XAGE1E	-0.122099	7.0687365	-1.515451	0.1632131	0.46254	-5.167897
ANXA10	-0.187424	6.8549464	-1.515237	0.1632664	0.4626	-5.168172
LINC00441	-0.121376	7.2358467	-1.514741	0.16339	0.46264	-5.168808
NAT9	-0.140481	9.1733888	-1.514609	0.1634229	0.46264	-5.168978
SMIM3	-0.091937	6.8886976	-1.51448	0.1634552	0.46264	-5.169144
LOC642980	0.1121195	7.0546659	1.5143432	0.1634894	0.46264	-5.16932
ULK4	-0.12174	7.0628615	-1.514174	0.1635315	0.46264	-5.169536
LAMC1	0.1381174	9.5544506	1.514145	0.1635388	0.46264	-5.169574
RFPL1	-0.099438	7.0651341	-1.514103	0.1635494	0.46264	-5.169628
BDP1	-0.100005	7.0673837	-1.514024	0.163569	0.46264	-5.169729
DDX39A	-0.101765	9.6716302	-1.513976	0.163581	0.46264	-5.169791
CNGA3	-0.126756	6.9144565	-1.513797	0.1636259	0.46264	-5.170022
ATG3	0.1073768	8.793385	1.5136807	0.1636548	0.46264	-5.17017
EMC10	-0.115189	7.0383745	-1.51366	0.1636599	0.46264	-5.170197
SLX4	-0.168405	8.4779389	-1.513457	0.1637106	0.46269	-5.170457
IRF9	0.1481781	9.0550109	1.5132783	0.1637553	0.46272	-5.170687
TEN1	-0.107377	7.2717365	-1.513164	0.1637838	0.46272	-5.170833
ZNF697	-0.106446	6.8287069	-1.511885	0.1641038	0.46354	-5.172475
FMNL2	-0.150447	7.2061801	-1.51163	0.1641678	0.46363	-5.172802
PTP4A1	0.1046746	7.6251721	1.5114725	0.1642073	0.46365	-5.173005
SRI	0.0949965	9.3949352	1.5111964	0.1642764	0.46368	-5.173359
PHF2	0.1089328	7.6063417	1.5111762	0.1642815	0.46368	-5.173385

ZNF473	0.1070404	8.2999004	1.5107291	0.1643936	0.46387	-5.173958
HSPB11	0.1363316	10.26771	1.5106581	0.1644114	0.46387	-5.174049
NUP35	-0.11948	8.6306003	-1.510168	0.1645343	0.46408	-5.174677
CCT6B	-0.185911	7.5695684	-1.510105	0.1645503	0.46408	-5.174759
HPCAL1	-0.092089	7.7942067	-1.509904	0.1646006	0.46412	-5.175016
GRM2	0.1165449	7.1105814	1.5097072	0.1646501	0.46412	-5.175268
TRAK2	0.1090625	8.2594507	1.5096678	0.16466	0.46412	-5.175319
POLR2J	-0.114277	7.8366194	-1.50944	0.1647172	0.46419	-5.175611
POLR3F	-0.201987	8.2771975	-1.50928	0.1647575	0.46422	-5.175817
HEY1	-0.119411	7.6410825	-1.508932	0.1648448	0.46433	-5.176262
FSD1	-0.099202	7.2766399	-1.508756	0.1648891	0.46433	-5.176488
AR	-0.096959	6.8225346	-1.508719	0.1648983	0.46433	-5.176535
LOC644173	-0.109245	6.9677374	-1.508529	0.1649463	0.46433	-5.176779
TUBGCP3	0.1105359	6.920831	1.5084865	0.1649569	0.46433	-5.176833
LOC727808	-0.208796	13.385886	-1.508212	0.1650259	0.46443	-5.177185
BORCS8-ME	0.2160188	7.7049531	1.5077757	0.1651358	0.46465	-5.177744
RGS19	0.1333679	9.5036772	1.5076326	0.1651718	0.46465	-5.177927
KLHDC10	-0.116399	7.2808537	-1.507526	0.1651987	0.46465	-5.178064
PPP2R3A	-0.120326	7.1767378	-1.507178	0.1652864	0.46481	-5.17851
STOML1	-0.0984	7.1403915	-1.506631	0.1654242	0.46504	-5.17921
FAM120AOS	-0.126207	9.1451407	-1.506605	0.1654309	0.46504	-5.179243
AP2M1	0.2124191	9.3032408	1.5064671	0.1654656	0.46504	-5.17942
RPUSD4	-0.150588	11.201679	-1.506243	0.1655221	0.46511	-5.179707
VPS41	-0.102584	8.1987826	-1.505862	0.1656183	0.46529	-5.180195
FCGR2B	-0.112885	8.9176782	-1.505638	0.1656749	0.46536	-5.180482
DBR1	-0.096451	7.679685	-1.505266	0.1657689	0.46554	-5.180958
MAML1	0.1060976	7.3588645	1.505032	0.1658279	0.46561	-5.181257
MICAL1	0.1295559	7.8260292	1.5048344	0.1658779	0.46566	-5.18151
COX6A1	-0.114934	11.823567	-1.504535	0.1659535	0.46566	-5.181892
LSS	0.1430311	8.1048182	1.5044698	0.1659701	0.46566	-5.181976
SLC35C2	0.1240648	8.2638588	1.5044656	0.1659711	0.46566	-5.181982
DMTN	-0.093343	6.9147767	-1.503356	0.166252	0.4663	-5.183401
SMS	0.1401217	11.089376	1.5033045	0.166265	0.4663	-5.183467
PIK3CB	0.1201409	7.8594753	1.5025862	0.1664471	0.46646	-5.184385
ZNF317	-0.099318	8.6911416	-1.502575	0.1664499	0.46646	-5.184399
ITGA10	-0.101887	6.9973481	-1.50255	0.1664562	0.46646	-5.184431
ZNF343	0.1002629	8.1392443	1.5024685	0.1664769	0.46646	-5.184536
DMC1	-0.122906	8.9879311	-1.502043	0.1665848	0.46646	-5.185079
RABGEF1	-0.122042	7.5198429	-1.50196	0.166606	0.46646	-5.185186
WIPF1	0.1260902	9.1962722	1.5018943	0.1666226	0.46646	-5.18527
ZNF593	-0.105477	11.635822	-1.501886	0.1666246	0.46646	-5.18528
FAM102B	0.1976753	7.4907011	1.5018861	0.1666247	0.46646	-5.18528
RPL27A	0.0973798	14.326123	1.5018167	0.1666423	0.46646	-5.185369
CLDN11	0.0913722	6.9036084	1.5014928	0.1667245	0.46657	-5.185783
TUBA1A	0.1619464	12.917458	1.5013655	0.1667568	0.46657	-5.185945

C17orf97	-0.110454	9.2437224	-1.501291	0.1667757	0.46657	-5.18604
LY6G5C	0.0927114	6.8635506	1.5010087	0.1668475	0.46668	-5.186401
ITGB7	0.2666587	9.3833768	1.5007658	0.1669092	0.46676	-5.186712
ALG1L	-0.111627	7.1779037	-1.500293	0.1670295	0.46684	-5.187316
VCPKMT	-0.133499	8.6640884	-1.500267	0.1670362	0.46684	-5.18735
PPP1R9B	0.1130734	7.2102443	1.5002624	0.1670372	0.46684	-5.187355
CERS1	0.0951619	6.7393382	1.5001609	0.167063	0.46684	-5.187484
AMMECR1L	-0.186372	7.9970977	-1.49959	0.1672082	0.46715	-5.188213
SMPDL3B	-0.115946	7.4032963	-1.498365	0.1675203	0.46784	-5.189777
APOL2	0.0998093	7.3156045	1.4982547	0.1675485	0.46784	-5.189918
BBS2	-0.131386	8.0327688	-1.498194	0.1675641	0.46784	-5.189996
RING1	-0.191701	10.780132	-1.498008	0.1676114	0.46784	-5.190233
GINS2	-0.095925	10.637769	-1.498001	0.1676132	0.46784	-5.190242
PRR5	0.1033992	7.5450933	1.4970523	0.1678554	0.46835	-5.191453
LAMTOR4	0.1144316	11.337053	1.4970333	0.1678603	0.46835	-5.191477
CDCA2	0.1050308	7.9273348	1.49689	0.1678969	0.46836	-5.19166
CDK8	0.1305116	7.7553308	1.4964048	0.1680209	0.46851	-5.192278
LYPD4	0.121428	6.8728472	1.4963615	0.168032	0.46851	-5.192334
ZNF888	0.1109668	6.9280823	1.4962861	0.1680512	0.46851	-5.19243
KRTAP27-1	-0.151293	6.8759958	-1.496082	0.1681035	0.46851	-5.19269
QRSL1	-0.147522	7.3516695	-1.496046	0.1681125	0.46851	-5.192735
TGFBR3	-0.12272	7.0570424	-1.495815	0.1681718	0.46859	-5.193031
TMCO5A	0.120175	7.0504565	1.4955653	0.1682357	0.4686	-5.193349
PCCB	-0.10608	10.965673	-1.495555	0.1682384	0.4686	-5.193363
ABHD10	-0.110168	6.8651254	-1.495359	0.1682885	0.46865	-5.193612
ZDHHC6	-0.122636	9.5488572	-1.495125	0.1683483	0.46872	-5.19391
STAT3	0.1152753	7.9981816	1.4945986	0.1684832	0.46898	-5.194581
KCNJ4	0.1078208	7.0037093	1.4942481	0.1685731	0.46898	-5.195028
CTSK	-0.10876	6.8862409	-1.494235	0.1685764	0.46898	-5.195044
KPNA3	0.17052	9.7876151	1.493987	0.16864	0.46898	-5.195361
AP4B1	-0.130476	9.4129575	-1.493738	0.1687039	0.46898	-5.195678
REC8	0.1720741	9.3360755	1.4935211	0.1687596	0.46898	-5.195954
HDAC4	-0.143292	7.2531066	-1.493425	0.1687843	0.46898	-5.196077
PSMB3	0.1245676	12.487757	1.4933209	0.168811	0.46898	-5.196209
NIPSNAP1	0.1995682	10.278618	1.4932703	0.1688239	0.46898	-5.196274
PPARA	-0.093481	6.8596293	-1.493257	0.1688273	0.46898	-5.19629
DDX49	0.18706	8.4003059	1.4931736	0.1688488	0.46898	-5.196397
TMEM117	-0.092018	7.2817275	-1.493132	0.1688596	0.46898	-5.19645
EPN2	0.0960608	6.8497147	1.492794	0.1689463	0.46898	-5.19688
PHF3	0.1566289	8.643132	1.4927274	0.1689634	0.46898	-5.196965
NAA20	0.1428644	11.292291	1.4926065	0.1689944	0.46898	-5.197119
KIAA2022	0.1243478	6.8013463	1.4926047	0.1689949	0.46898	-5.197121
DNM1P46	-0.121046	6.9411156	-1.4926	0.1689961	0.46898	-5.197127
COIL	0.1232083	9.1252585	1.4924905	0.1690243	0.46898	-5.197267
PASK	0.1036346	8.3730928	1.4923919	0.1690496	0.46898	-5.197392

KRTAP4-7	-0.15688	6.9750012	-1.491843	0.1691908	0.46915	-5.198092
COL4A5	-0.089503	6.7143017	-1.491798	0.1692023	0.46915	-5.198149
EXOSC2	-0.134003	9.2248924	-1.491771	0.1692092	0.46915	-5.198183
IRF4	0.1139495	8.0817343	1.4915745	0.1692598	0.4692	-5.198433
WDR70	-0.115602	8.8291357	-1.491296	0.1693316	0.46931	-5.198788
PXDN	0.1080617	7.0331273	1.4899479	0.1696788	0.46999	-5.200503
SDR9C7	0.1887215	6.8879166	1.4896369	0.169759	0.46999	-5.200898
CCT3	-0.094436	11.385504	-1.489603	0.1697677	0.46999	-5.200941
IQSEC1	0.1781864	8.8714286	1.4895406	0.1697839	0.46999	-5.201021
PLEKHG5	0.1207552	7.0522361	1.4894479	0.1698078	0.46999	-5.201139
ALX3	0.1015512	6.8889569	1.4893662	0.1698289	0.46999	-5.201243
LINC01620	0.0985866	6.9787753	1.4893559	0.1698315	0.46999	-5.201256
FBXL16	0.0923555	6.8282936	1.4893424	0.169835	0.46999	-5.201273
LINC01252	0.1096164	6.9565637	1.4890882	0.1699006	0.46999	-5.201596
ISOC2	0.2424496	9.8084341	1.4890503	0.1699104	0.46999	-5.201645
FBLIM1	0.1067091	6.9342661	1.488841	0.1699644	0.46999	-5.201911
CCDC54	-0.141841	6.8794012	-1.488746	0.169989	0.46999	-5.202032
CHCHD1	-0.121774	8.4039282	-1.488626	0.17002	0.46999	-5.202184
THAP8	-0.114411	6.853142	-1.488291	0.1701065	0.46999	-5.20261
THOC5	-0.111857	8.9914373	-1.488237	0.1701205	0.46999	-5.202678
STX10	-0.108677	8.9583405	-1.488215	0.1701261	0.46999	-5.202706
CD2BP2	-0.124818	10.38098	-1.488178	0.1701357	0.46999	-5.202753
PGA3	-0.09686	6.9036782	-1.488104	0.1701548	0.46999	-5.202847
CD81	0.1422436	13.541626	1.4879793	0.1701871	0.46999	-5.203006
PIK3R6	-0.117253	6.949232	-1.487662	0.1702691	0.47012	-5.203409
DHRS3	-0.0958	6.853456	-1.487333	0.1703543	0.4702	-5.203828
JTB	0.2228408	12.761204	1.4873055	0.1703614	0.4702	-5.203863
CIITA	-0.114621	8.7588866	-1.487052	0.1704269	0.47029	-5.204184
RNF152	-0.112723	6.9441391	-1.486724	0.170512	0.47044	-5.204602
CFTR	0.1273758	6.9686215	1.4861645	0.1706569	0.4707	-5.205312
NRBP2	-0.09055	6.8900675	-1.486075	0.1706801	0.4707	-5.205426
ADCY10	-0.121192	7.0001019	-1.485724	0.1707711	0.4707	-5.205872
ZBTB20	0.1333494	7.3610402	1.4856904	0.1707798	0.4707	-5.205914
PELI1	0.1254552	9.3793087	1.4854827	0.1708337	0.4707	-5.206178
ZNF250	-0.118895	7.8992859	-1.485475	0.1708357	0.4707	-5.206188
PLTP	0.0998058	7.0859635	1.4852515	0.1708936	0.4707	-5.206472
LINC00895	0.1024049	6.8310895	1.4851763	0.1709132	0.4707	-5.206567
POLD4	0.1744574	8.2370462	1.4850621	0.1709428	0.4707	-5.206712
YTHDC2	0.1509088	7.7859353	1.4848639	0.1709943	0.4707	-5.206964
CDH20	-0.103879	7.1381905	-1.484832	0.1710025	0.4707	-5.207004
TRIM78P	-0.10552	6.9812543	-1.484748	0.1710242	0.4707	-5.20711
MORC2	0.1065325	7.7190366	1.4846347	0.1710538	0.4707	-5.207255
SYMPK	0.1137744	7.8915975	1.484621	0.1710573	0.4707	-5.207272
CREG1	0.1537439	10.120452	1.4840909	0.171195	0.47099	-5.207945
VAMP5	-0.137621	7.5958791	-1.483483	0.1713532	0.47125	-5.208717

GANC	0.1066117	6.8324284	1.4834029	0.1713739	0.47125	-5.208818
GPAA1	0.1618671	8.2277689	1.4832962	0.1714017	0.47125	-5.208953
SIM2	0.1708056	7.0305111	1.4831717	0.1714341	0.47125	-5.209111
NICN1	-0.166147	8.787433	-1.483104	0.1714516	0.47125	-5.209197
PPP1R3B	0.1158926	6.735127	1.4827816	0.1715356	0.47136	-5.209606
ARPC4	0.1066877	8.9166362	1.4826595	0.1715674	0.47136	-5.209761
ESRP2	-0.094264	6.7852508	-1.482582	0.1715876	0.47136	-5.209859
DNAL1	-0.121006	7.2344496	-1.481689	0.1718202	0.47188	-5.210991
GSAP	-0.099011	6.9454203	-1.481605	0.1718423	0.47188	-5.211099
FBXO30	0.0944135	8.1249363	1.4806321	0.172096	0.47247	-5.212332
COL4A1	-0.102914	6.7776194	-1.48053	0.1721226	0.47247	-5.212461
LAMTOR1	0.1663002	10.603432	1.4798535	0.1722994	0.47287	-5.213318
CCDC85B	0.1765417	8.144345	1.4795646	0.1723749	0.47297	-5.213684
MIR1470	0.1515984	6.9251816	1.479346	0.1724321	0.47297	-5.213961
TEX264	-0.100819	8.4872019	-1.479218	0.1724656	0.47297	-5.214123
ZNF773	-0.102369	7.4893199	-1.479115	0.1724925	0.47297	-5.214254
PPP2R3B	0.1025081	7.3473762	1.4789668	0.1725313	0.47297	-5.214441
FLYWCH2	0.1283362	7.7715288	1.478965	0.1725317	0.47297	-5.214444
DHRS13	-0.156728	8.111648	-1.478689	0.1726038	0.473	-5.214793
CLSTN1	0.1561299	8.5573342	1.4786767	0.1726072	0.473	-5.214809
CHST12	-0.127402	8.279523	-1.478041	0.1727736	0.47337	-5.215613
ASNA1	0.1097929	7.5353235	1.4778686	0.1728188	0.4734	-5.215832
TCF19	0.1045781	7.1964421	1.4777509	0.1728497	0.4734	-5.215981
BCL7C	0.1273256	8.3548385	1.4774305	0.1729336	0.47354	-5.216387
SNORD139	-0.100336	7.5874671	-1.476815	0.1730952	0.47381	-5.217166
DIP2B	0.0992071	8.762527	1.476791	0.1731014	0.47381	-5.217196
SPARCL1	-0.142147	8.7004627	-1.476687	0.1731287	0.47381	-5.217328
CCBE1	-0.188855	9.4997509	-1.47615	0.1732697	0.4741	-5.218007
SP2	0.1247916	7.867205	1.4747302	0.1736429	0.47495	-5.219803
IL32	-0.100359	7.537994	-1.474725	0.1736442	0.47495	-5.219809
F11R	-0.125018	7.4084503	-1.474446	0.1737176	0.47502	-5.220161
PPT1	-0.165866	11.736925	-1.474382	0.1737345	0.47502	-5.220243
TOR1AIP1	0.1254124	8.6977079	1.4740379	0.1738251	0.47518	-5.220678
ARHGAP11A	0.1017339	7.1647676	1.4738872	0.1738649	0.4752	-5.220868
MRPL51	-0.091798	11.922219	-1.473055	0.1740841	0.47564	-5.221919
TMED5	0.1305866	10.066912	1.4729722	0.174106	0.47564	-5.222024
ZSCAN2	-0.089602	7.4523693	-1.472908	0.1741229	0.47564	-5.222105
TIMM29	0.1488212	8.307504	1.4727696	0.1741595	0.47565	-5.22228
RNF44	0.1330479	8.1014211	1.4725508	0.1742172	0.47572	-5.222557
OR3A1	0.1120155	6.8649369	1.472264	0.1742929	0.47583	-5.222919
TUBA3E	-0.105411	7.0230909	-1.471819	0.1744105	0.47607	-5.223481
SNORA20	-0.112889	6.9597493	-1.471455	0.1745066	0.47622	-5.223941
EMC2	-0.101289	7.6319284	-1.471219	0.1745688	0.47622	-5.224238
NBPF10	0.3795367	10.496943	1.4712011	0.1745737	0.47622	-5.224261
HIVEP3	0.0885245	7.1266098	1.4711098	0.1745978	0.47622	-5.224376

TRMT5	0.1027654	9.9487008	1.4702508	0.1748251	0.47675	-5.225461
UROS	-0.144873	11.296396	-1.469965	0.1749008	0.47687	-5.225822
GALNT8	-0.137442	6.9093318	-1.469666	0.17498	0.47697	-5.226199
CARHSP1	-0.211877	9.4521609	-1.469574	0.1750044	0.47697	-5.226315
HINT1	-0.123782	13.489747	-1.469359	0.1750611	0.47697	-5.226586
TFAM	0.1273775	10.598307	1.4692784	0.1750826	0.47697	-5.226688
TMEM254	-0.131207	7.632482	-1.469034	0.1751474	0.47697	-5.226996
FXN	-0.09574	6.9824413	-1.468648	0.1752497	0.47697	-5.227483
KCND3	0.1009077	6.9945421	1.4685769	0.1752686	0.47697	-5.227573
CAV1	0.1203372	7.2756582	1.4685676	0.1752711	0.47697	-5.227584
ABT1	0.1170102	7.8262026	1.4685571	0.1752739	0.47697	-5.227598
MXD3	0.099537	7.1944394	1.4685347	0.1752798	0.47697	-5.227626
IL20RB	-0.089777	7.0049889	-1.468374	0.1753224	0.47697	-5.227828
ABCD3	0.1011279	8.0581342	1.4683007	0.1753419	0.47697	-5.227921
COG5	-0.123689	7.7839119	-1.468173	0.1753757	0.47697	-5.228082
GRM5	0.1228966	6.8917944	1.4680876	0.1753985	0.47697	-5.22819
ZBED3	0.1553027	6.9138843	1.4678951	0.1754496	0.47697	-5.228432
DICER1	0.1509338	7.8743497	1.4678566	0.1754598	0.47697	-5.228481
IKBKE	0.14581	8.3266042	1.4668987	0.1757143	0.47741	-5.229688
EXOSC7	-0.133829	11.036135	-1.466884	0.1757183	0.47741	-5.229707
COX18	0.1358218	6.9253753	1.4668509	0.175727	0.47741	-5.229749
EMX2OS	0.1113699	7.5206815	1.4667542	0.1757527	0.47741	-5.22987
C1QL3	-0.129331	6.8944309	-1.466497	0.175821	0.4775	-5.230194
NRG4	-0.132617	7.4214851	-1.466166	0.1759093	0.47766	-5.230612
ARIH1	0.1081122	8.2415007	1.4657358	0.1760237	0.47788	-5.231153
NDRG2	-0.091107	6.9303338	-1.465458	0.1760977	0.4779	-5.231504
WSB1	-0.105	8.3607091	-1.465294	0.1761415	0.4779	-5.231711
NONO	0.1560502	10.527219	1.4652824	0.1761445	0.4779	-5.231725
C4orf33	-0.103876	7.9060047	-1.465214	0.1761627	0.4779	-5.231811
HUS1B	0.0895292	7.3223264	1.4645087	0.1763507	0.47823	-5.232699
SLITRK1	0.096353	6.9472472	1.4645031	0.1763522	0.47823	-5.232706
FN3KRP	-0.159085	9.4810166	-1.464376	0.176386	0.47824	-5.232866
LINC02036	-0.140848	7.0304566	-1.464	0.1764865	0.47842	-5.233339
TBCCD1	-0.096498	7.2385968	-1.463069	0.1767351	0.47895	-5.234511
HLA-DMA	-0.100922	12.05098	-1.46302	0.176748	0.47895	-5.234572
PRPSAP1	-0.196288	9.94356	-1.46288	0.1767856	0.47897	-5.234749
DDX17	-0.148645	9.2423708	-1.461551	0.1771411	0.47976	-5.23642
PFDN2	0.1230422	7.5210824	1.4615317	0.1771462	0.47976	-5.236445
MIR204	0.1595646	6.9800078	1.4613455	0.1771961	0.47981	-5.236679
GID8	0.1488208	10.439499	1.4605698	0.1774039	0.48028	-5.237654
KCTD21	-0.093858	6.9688595	-1.460333	0.1774675	0.48037	-5.237952
INPP5B	0.1151999	7.6795669	1.4598069	0.1776086	0.48052	-5.238613
PKIB	0.0921185	6.8431411	1.4596285	0.1776565	0.48052	-5.238837
CRYBG3	0.0911707	6.8747364	1.4595379	0.1776808	0.48052	-5.238951
NDUFV1	0.1649906	11.351977	1.4595096	0.1776884	0.48052	-5.238986

MRPS18C	0.1138392	11.788505	1.4594137	0.1777141	0.48052	-5.239107
TMEM161B	-0.104298	7.2660697	-1.45938	0.1777233	0.48052	-5.23915
TTTY19	-0.097426	6.8202986	-1.459043	0.1778136	0.48061	-5.239572
CD1C	-0.087035	6.7945837	-1.459015	0.1778212	0.48061	-5.239608
OSBP	0.10365	10.652808	1.458177	0.1780464	0.48106	-5.24066
ZNF517	0.1131966	6.9837227	1.4581539	0.1780527	0.48106	-5.240689
RBM8A	-0.088772	6.8440386	-1.457982	0.1780989	0.48109	-5.240905
SNORD1C	-0.104808	6.976992	-1.457593	0.1782035	0.48129	-5.241393
SUCLG2	-0.185317	9.2412768	-1.457466	0.1782377	0.48129	-5.241553
PCCA	-0.092755	7.8082463	-1.457102	0.1783359	0.48131	-5.24201
AZI2	-0.133452	7.5439767	-1.457008	0.178361	0.48131	-5.242128
HAO2	0.1606547	6.9218786	1.4569679	0.1783719	0.48131	-5.242178
STK38	0.1026544	8.6595653	1.4567426	0.1784326	0.48131	-5.242461
MLXIPL	0.0909658	6.858929	1.45662	0.1784656	0.48131	-5.242615
SNAPC2	0.1631378	8.6482759	1.4566128	0.1784675	0.48131	-5.242624
USP53	-0.133784	7.0468064	-1.456587	0.1784744	0.48131	-5.242656
UCHL1	0.1181885	12.222348	1.4558682	0.1786683	0.48174	-5.243558
RANBP6	0.0970247	7.6884174	1.4557231	0.1787074	0.48176	-5.24374
GABBR1	-0.119135	7.0510405	-1.45557	0.1787486	0.48178	-5.243932
SDHB	-0.097902	13.055491	-1.455295	0.1788228	0.48189	-5.244277
TAF12	-0.141588	9.0376633	-1.454918	0.1789246	0.48208	-5.244749
MTFR1L	-0.101564	7.8306866	-1.45464	0.1789997	0.4821	-5.245098
BLZF1	-0.126992	9.1967701	-1.454568	0.1790194	0.4821	-5.245189
CNTFR	-0.117369	6.7863822	-1.454525	0.179031	0.4821	-5.245243
C2orf76	-0.130279	8.1418926	-1.454161	0.1791294	0.48224	-5.2457
FAM155B	-0.099477	6.953602	-1.454087	0.1791492	0.48224	-5.245791
FAT2	-0.132395	6.8368279	-1.453771	0.1792348	0.48231	-5.246188
DNAJC28	-0.100429	9.5933349	-1.453638	0.1792708	0.48231	-5.246355
TMEM31	-0.092724	6.8084673	-1.453597	0.1792818	0.48231	-5.246406
ZDHHC9	-0.099518	7.4655102	-1.45349	0.1793107	0.48231	-5.24654
ZNF337	0.0973815	8.2776221	1.4531622	0.1793995	0.48246	-5.246951
C1orf210	-0.122924	7.0150931	-1.452781	0.1795028	0.48265	-5.247429
TACR1	0.1410587	7.0278249	1.45258	0.1795572	0.48271	-5.24768
RPL10	0.1543871	6.9977607	1.4524039	0.1796049	0.48271	-5.247901
ENDOG	-0.109544	8.1410587	-1.452333	0.179624	0.48271	-5.247989
CBX2	0.103429	8.2172223	1.4519591	0.1797255	0.4829	-5.248458
CAND2	-0.095531	6.8494148	-1.451811	0.1797657	0.48292	-5.248644
KCTD13	0.1739186	7.8666279	1.4516123	0.1798195	0.48292	-5.248892
ESM1	0.1443782	6.9464522	1.451566	0.1798321	0.48292	-5.248951
GPRIN1	0.1028925	6.9872733	1.4510227	0.1799795	0.48322	-5.249631
ERCC6	0.1511623	7.0091003	1.4508902	0.1800155	0.48323	-5.249797
TM6SF2	-0.108948	6.9932781	-1.450516	0.180117	0.48326	-5.250264
ATP5SL	0.1175141	9.6632664	1.4504836	0.1801259	0.48326	-5.250306
PPP5C	0.1246838	7.0058739	1.4504806	0.1801267	0.48326	-5.250309
ABHD1	0.0939646	6.8475652	1.4500157	0.1802531	0.48351	-5.250891

FAM133B	-0.107587	8.6726154	-1.449799	0.180312	0.48358	-5.251162
PAF1	-0.148536	9.4962463	-1.449491	0.1803958	0.48372	-5.251548
HCFC1	0.1114657	11.275163	1.4493614	0.180431	0.48372	-5.25171
DOLK	0.1586277	7.662354	1.4490507	0.1805155	0.48386	-5.252099
PRR15L	-0.095724	6.9755668	-1.448883	0.1805611	0.48389	-5.252308
TDRD6	-0.124172	7.1312095	-1.448677	0.1806173	0.48391	-5.252566
CPQ	-0.085183	6.7629255	-1.448612	0.1806349	0.48391	-5.252647
EIF3E	-0.136585	13.938017	-1.448277	0.1807261	0.48407	-5.253066
RBPJ	0.1171668	7.5298913	1.4478513	0.1808422	0.48429	-5.253599
RSBN1	0.1775332	8.6252303	1.4473923	0.1809674	0.48445	-5.254172
STAT5A	0.1169992	7.3994584	1.4473892	0.1809682	0.48445	-5.254176
RAB42P1	-0.12674	9.827254	-1.447192	0.181022	0.48451	-5.254423
LIN37	-0.112121	7.0804161	-1.446548	0.1811977	0.48483	-5.255227
LDHA	0.1299927	11.914173	1.4465071	0.181209	0.48483	-5.255279
GNPTAB	0.1508247	8.2090639	1.4461368	0.1813101	0.48501	-5.255741
PRPF19	0.1096888	9.7751115	1.4454669	0.1814932	0.48537	-5.256578
PTDSS1	0.1749517	12.054427	1.4453307	0.1815305	0.48537	-5.256748
TAP1	-0.112656	11.296323	-1.445278	0.1815448	0.48537	-5.256814
SATB1	0.0919501	6.826912	1.4445965	0.1817314	0.48578	-5.257665
WWC2-AS2	-0.111067	6.7707126	-1.444305	0.1818112	0.48582	-5.258029
GGA3	0.0902649	7.421213	1.4442986	0.1818129	0.48582	-5.258037
JUP	0.1212646	7.3074655	1.44412	0.1818618	0.48582	-5.25826
DEPDC1B	-0.126889	8.2448437	-1.444021	0.1818889	0.48582	-5.258383
PAIP1	-0.094432	7.3079458	-1.443851	0.1819355	0.48582	-5.258595
COQ8A	-0.097321	8.6468625	-1.443816	0.1819451	0.48582	-5.258639
ZNF383	-0.175024	7.2780958	-1.443637	0.1819942	0.48586	-5.258863
MESDC1	0.1447231	7.3605078	1.442974	0.182176	0.48603	-5.25969
ACE2	-0.136367	6.9040174	-1.442857	0.1822082	0.48603	-5.259837
CCND1	-0.086275	6.7504218	-1.442754	0.1822363	0.48603	-5.259964
CFAP45	-0.110731	7.0098423	-1.442739	0.1822404	0.48603	-5.259983
STYK1	-0.092346	6.9742911	-1.442713	0.1822476	0.48603	-5.260016
SLC39A6	0.1035326	8.442818	1.4426791	0.1822569	0.48603	-5.260058
APOBEC3B	-0.10188	6.9544606	-1.442508	0.182304	0.48603	-5.260272
BCS1L	-0.113915	9.764257	-1.442236	0.1823786	0.48603	-5.260611
EPHB1	0.1567253	7.6029632	1.4421705	0.1823965	0.48603	-5.260693
ZIC5	-0.089485	6.901224	-1.44205	0.1824297	0.48603	-5.260843
RBM15B	0.1421727	7.4853267	1.4420489	0.18243	0.48603	-5.260844
ZC3H7A	0.111649	8.3373315	1.4419466	0.182458	0.48603	-5.260972
LIN7A	0.088846	6.7472187	1.441613	0.1825497	0.48619	-5.261388
KIF20A	0.1512854	9.4350461	1.4413548	0.1826207	0.48622	-5.26171
DNA2	0.0991897	7.9443895	1.4412629	0.1826459	0.48622	-5.261824
PLPBP	-0.097078	9.4445775	-1.441127	0.1826834	0.48622	-5.261994
RPS16	-0.107987	14.337542	-1.44092	0.1827402	0.48622	-5.262252
RIF1	0.1369565	7.7069034	1.4408474	0.1827602	0.48622	-5.262343
DNPH1	-0.099016	8.9682836	-1.440843	0.1827615	0.48622	-5.262348

DMRTC2	-0.097394	6.7007501	-1.440144	0.1829539	0.48664	-5.26322
FZD10	0.1257049	6.9902708	1.4399126	0.1830175	0.48672	-5.263508
GNG5	0.1428484	9.1902502	1.4394183	0.1831537	0.487	-5.264123
YWHAH	0.1039994	12.147217	1.4386958	0.183353	0.48741	-5.265023
OR2A4	-0.108719	6.8697804	-1.438608	0.1833772	0.48741	-5.265133
MRPL16	-0.109636	10.377684	-1.438479	0.1834128	0.48742	-5.265294
SEC24B	0.0993339	7.9765649	1.4381214	0.1835115	0.48757	-5.265739
RPS25	0.1132486	14.601861	1.4379034	0.1835717	0.48757	-5.26601
PPP1R35	0.1679033	9.6274607	1.437679	0.1836337	0.48757	-5.26629
SEMA6C	-0.139124	6.8830427	-1.437426	0.1837034	0.48757	-5.266604
CDC25C	-0.097248	7.6672258	-1.437406	0.1837091	0.48757	-5.26663
DLL3	-0.084962	6.7386681	-1.437311	0.1837354	0.48757	-5.266748
PAPD7	0.104568	8.9511775	1.437069	0.1838022	0.48757	-5.267049
AGO4	-0.09369	6.7612541	-1.436999	0.1838217	0.48757	-5.267136
BBOF1	0.1584009	7.4107672	1.4369854	0.1838253	0.48757	-5.267153
TIGD7	-0.114187	6.7183794	-1.436981	0.1838266	0.48757	-5.267159
CAPZA2	-0.114769	10.952505	-1.43694	0.183838	0.48757	-5.26721
SLC35F6	-0.108041	7.1536904	-1.436057	0.1840822	0.48813	-5.268308
TRUB2	-0.121134	8.0021125	-1.435728	0.1841732	0.48825	-5.268717
COPG1	0.1070737	8.808746	1.4356116	0.1842055	0.48825	-5.268862
CYSLTR1	-0.097059	6.8924476	-1.435522	0.1842304	0.48825	-5.268974
DARS	0.1650055	12.352101	1.4354171	0.1842594	0.48825	-5.269104
TRAP1	0.152137	9.9812617	1.435091	0.1843498	0.4884	-5.26951
SPIRE2	-0.100279	6.9829532	-1.434582	0.1844909	0.48868	-5.270142
UBE2Z	0.1097908	8.4834759	1.4344089	0.1845389	0.48872	-5.270358
MAPK1	-0.095563	7.8434544	-1.433946	0.1846674	0.4888	-5.270933
PAOX	-0.1093	7.1892302	-1.433877	0.1846866	0.4888	-5.271019
SNORA64	-0.147892	8.1566012	-1.433828	0.1847001	0.4888	-5.27108
SNRNP48	-0.134453	7.5499752	-1.43382	0.1847023	0.4888	-5.271089
GNA12	0.1076881	8.1336796	1.4334399	0.1848079	0.48882	-5.271562
C12orf76	-0.110726	7.8630265	-1.433357	0.184831	0.48882	-5.271665
CPE	-0.092592	6.7483495	-1.433283	0.1848514	0.48882	-5.271757
PIK3AP1	-0.214709	9.2011074	-1.433277	0.1848531	0.48882	-5.271764
SLIRP	0.1666316	13.729929	1.4331863	0.1848783	0.48882	-5.271877
EMP3	0.1635882	10.439712	1.4329101	0.1849551	0.48894	-5.27222
GNG8	0.101776	6.8684634	1.4326924	0.1850156	0.48901	-5.272491
POLD2	0.1859231	9.436424	1.4321857	0.1851565	0.48929	-5.27312
FBXO48	0.0918517	6.909796	1.4314239	0.1853686	0.48976	-5.274066
ZXDB	0.1007055	7.09815	1.4312809	0.1854084	0.48978	-5.274243
ARL13B	-0.126986	7.197187	-1.431061	0.1854696	0.48985	-5.274516
PEX14	0.2230735	7.8743427	1.4306752	0.1855772	0.49005	-5.274995
TKTL1	-0.092966	6.9424225	-1.430349	0.1856682	0.49012	-5.2754
BEX4	-0.097548	6.7144408	-1.430248	0.1856962	0.49012	-5.275525
RNF145	0.0968651	8.3226739	1.4302122	0.1857063	0.49012	-5.27557
ZNF474	0.1126757	6.9153351	1.4294931	0.185907	0.49056	-5.276462

ABCC11	-0.117579	6.8938267	-1.429307	0.1859588	0.49061	-5.276692
TLE3	0.1083608	7.0815209	1.4289384	0.1860619	0.4908	-5.27715
CLIP2	0.1095018	7.3149799	1.428467	0.1861936	0.49103	-5.277735
HSP90AA1	0.1054702	11.230865	1.4283789	0.1862183	0.49103	-5.277844
DEFB123	0.129436	7.3433599	1.427754	0.1863931	0.49137	-5.278619
C11orf1	-0.116237	10.932983	-1.427674	0.1864155	0.49137	-5.278718
SUMF2	-0.141933	9.8658811	-1.427225	0.1865411	0.49162	-5.279274
PARK7	0.1137411	13.330388	1.4261274	0.1868487	0.49234	-5.280634
APBB2	-0.097189	6.9019114	-1.425868	0.1869215	0.49244	-5.280956
LSM4	0.1074911	10.77473	1.42546	0.1870359	0.49265	-5.281461
PLEKHJ1	0.1395982	7.678768	1.4251035	0.187136	0.49268	-5.281902
HEXB	0.1648477	9.6673253	1.425009	0.1871625	0.49268	-5.282019
GPS1	0.0893565	8.7898844	1.4249639	0.1871752	0.49268	-5.282075
CLEC4D	0.2014342	7.0621156	1.4249402	0.1871819	0.49268	-5.282104
PLXNC1	-0.108545	6.8557568	-1.424657	0.1872615	0.4928	-5.282455
CFI	0.1036619	7.079808	1.4238066	0.1875005	0.49334	-5.283507
ADSS	0.1439897	9.6709627	1.4232591	0.1876545	0.49359	-5.284185
ZNF358	-0.087562	6.8947784	-1.423236	0.1876611	0.49359	-5.284214
PCBD2	-0.137814	7.165088	-1.423035	0.1877175	0.49365	-5.284462
DENR	-0.099684	9.8003416	-1.422652	0.1878253	0.49376	-5.284935
XPO5	0.0884438	9.4542483	1.4226117	0.1878368	0.49376	-5.284986
PPP1R1B	-0.107279	7.0142051	-1.422425	0.1878894	0.49376	-5.285217
MIR142	-0.135511	7.0691191	-1.422382	0.1879014	0.49376	-5.285269
SAC3D1	0.2837793	9.7884618	1.4221627	0.1879633	0.49376	-5.285541
PHF11	-0.090623	9.3327084	-1.422027	0.1880016	0.49376	-5.285709
TM9SF1	0.1049828	7.4575802	1.4219263	0.1880299	0.49376	-5.285833
ALOX15B	0.1182044	7.0113355	1.4218505	0.1880513	0.49376	-5.285927
RTCB	0.0973896	10.067311	1.421694	0.1880954	0.49376	-5.28612
FADS6	0.0972228	7.1066076	1.4216813	0.188099	0.49376	-5.286136
DBNL	0.1081886	10.153022	1.4213144	0.1882025	0.49394	-5.28659
OR2A14	-0.091722	6.8978002	-1.421101	0.1882627	0.49401	-5.286853
MAVS	0.1151404	7.1627359	1.4205038	0.1884313	0.49437	-5.287591
NLGN4Y	0.0939612	6.780895	1.4202533	0.1885021	0.49438	-5.287901
RPS6KL1	-0.111457	7.1158122	-1.420239	0.1885061	0.49438	-5.287918
SCFD2	0.1139178	7.535966	1.4196875	0.1886621	0.49468	-5.2886
THUMPD2	-0.115521	8.059112	-1.41935	0.1887575	0.49468	-5.289017
TNFRSF1A	-0.15038	7.10588	-1.419276	0.1887785	0.49468	-5.289108
HTR1E	0.0985061	7.0686052	1.4192743	0.1887789	0.49468	-5.28911
TARDBP	-0.096391	8.2499515	-1.419242	0.1887881	0.49468	-5.28915
RWDD2B	-0.117365	7.8589231	-1.41845	0.1890122	0.49518	-5.290128
STXBP3	0.1553783	8.2928469	1.4181796	0.1890888	0.49529	-5.290462
TSPAN15	0.1245137	7.1645646	1.4180327	0.1891304	0.49531	-5.290643
CHI3L2	-0.110295	10.803637	-1.417753	0.1892098	0.49539	-5.290989
MIA2	-0.084977	6.9270929	-1.417535	0.1892715	0.49539	-5.291257
KIF1B	0.0921533	7.4535381	1.4175194	0.189276	0.49539	-5.291277

TRPV2	0.1892109	9.0333028	1.417436	0.1892996	0.49539	-5.291379
PDCD5	0.1280583	11.235928	1.4172951	0.1893396	0.49539	-5.291553
TRIM47	-0.097982	6.7012253	-1.417119	0.1893896	0.49539	-5.291771
LTF	0.1097965	7.0239064	1.4170305	0.1894146	0.49539	-5.29188
TPM3	0.1064524	7.7825188	1.4169646	0.1894333	0.49539	-5.291961
PDHX	0.1417301	9.6242399	1.4168527	0.1894651	0.49539	-5.292099
GABPB2	-0.151034	9.9340815	-1.416227	0.1896427	0.49576	-5.292871
KCNE5	0.1112187	7.1098705	1.4161044	0.1896775	0.49576	-5.293022
FAM92A	0.0964243	6.8139045	1.4158797	0.1897414	0.49584	-5.293299
STK17A	-0.101469	7.0658686	-1.415699	0.1897928	0.49589	-5.293522
HMGB1P1	-0.11319	9.6091091	-1.415532	0.1898402	0.49592	-5.293728
MT1P3	0.1480386	6.9565908	1.4153781	0.189884	0.49595	-5.293918
CYP26C1	-0.097183	6.8636451	-1.415024	0.1899847	0.49612	-5.294354
WDR45	-0.085465	7.2949178	-1.414697	0.1900776	0.49626	-5.294757
ZBTB44	-0.150192	7.7003508	-1.414598	0.1901059	0.49626	-5.294879
KCNS1	-0.086635	6.861693	-1.414016	0.1902716	0.4966	-5.295596
ARHGAP18	-0.090262	6.8779198	-1.413144	0.1905202	0.49716	-5.296671
SSR4	-0.102972	12.155439	-1.41248	0.1907096	0.49757	-5.297489
RNF138	0.1292169	8.7524955	1.4122901	0.1907637	0.49762	-5.297722
NPC2	-0.163179	11.234286	-1.412099	0.1908182	0.49768	-5.297957
EPB41L4A-A	-0.113999	11.194381	-1.411852	0.1908889	0.49772	-5.298262
HNRNPL	0.1473684	10.335804	1.4118004	0.1909035	0.49772	-5.298325
DOK3	0.0999728	7.1099143	1.4115161	0.1909848	0.49777	-5.298675
SLC35A1	-0.124496	9.2729369	-1.411501	0.1909892	0.49777	-5.298694
FAM124A	-0.087515	6.8560355	-1.411262	0.1910575	0.49785	-5.298988
ATG7	-0.198524	8.6194605	-1.411146	0.1910905	0.49785	-5.29913
CSNK2A2	0.1477522	9.5756727	1.4109979	0.1911329	0.49787	-5.299313
PPIAP29	-0.089216	13.177533	-1.410848	0.1911758	0.4979	-5.299497
EEF1AKMT1	-0.159678	7.1921945	-1.410278	0.1913388	0.49823	-5.300198
RPAP3	0.0953637	9.0865233	1.4100886	0.1913931	0.49828	-5.300431
ORAI2	0.1190678	7.1641085	1.4099723	0.1914263	0.49828	-5.300574
NCR3LG1	0.2310356	9.0437839	1.4092506	0.1916331	0.49863	-5.301462
AQP3	-0.114229	6.931066	-1.409084	0.1916808	0.49863	-5.301667
C1orf229	-0.128065	6.8082488	-1.409068	0.1916853	0.49863	-5.301686
CXCL6	0.1085327	6.8290264	1.4090345	0.191695	0.49863	-5.301727
FERMT1	0.1030758	6.8704056	1.4088529	0.1917471	0.49867	-5.301951
DERA	-0.132823	11.072166	-1.408242	0.1919223	0.49891	-5.302701
ITPR2	0.1789207	7.2495298	1.4082373	0.1919237	0.49891	-5.302707
SNORA77	-0.144233	7.0506011	-1.408173	0.1919422	0.49891	-5.302787
MTMR8	0.0959492	7.0564858	1.4080307	0.191983	0.49893	-5.302961
APOM	0.0964728	7.3181625	1.4077766	0.1920559	0.49903	-5.303273
NLRC3	-0.156394	7.1545494	-1.407502	0.1921348	0.49915	-5.303611
ARMC6	0.1076748	8.311637	1.4073019	0.1921923	0.49921	-5.303857
TMEM80	0.1107672	7.8869689	1.4068773	0.1923143	0.49944	-5.304378
TP73-AS1	0.1501677	6.9947517	1.4065765	0.1924008	0.4995	-5.304747

MTMR2	0.1245141	8.0703595	1.4065559	0.1924067	0.4995	-5.304773
SNX14	-0.1178	7.7204616	-1.405983	0.1925715	0.49984	-5.305476
CPNE1	-0.104051	8.1008082	-1.405831	0.1926153	0.49986	-5.305663
ST20	-0.13516	6.9105705	-1.405672	0.192661	0.49989	-5.305858
PCP2	-0.101358	6.8557512	-1.405374	0.1927469	0.50003	-5.306224
ASNSD1	0.1076314	10.663033	1.4049058	0.1928817	0.50029	-5.306798
KCTD20	0.2489694	9.4727686	1.4046256	0.1929625	0.50033	-5.307142
PICK1	-0.089341	7.5840138	-1.404614	0.1929657	0.50033	-5.307156
MIR1251	-0.102553	6.805219	-1.40448	0.1930045	0.50034	-5.307321
SQOR	-0.101764	6.932987	-1.40434	0.1930449	0.50035	-5.307493
INTS2	-0.19016	8.6702122	-1.404053	0.1931276	0.50039	-5.307844
CEP85L	0.1073954	7.0839941	1.4040122	0.1931394	0.50039	-5.307895
BOP1	-0.145536	11.532582	-1.403837	0.19319	0.50039	-5.30811
STAR	-0.08653	6.9152041	-1.403821	0.1931945	0.50039	-5.308129
FOXD4L1	-0.100978	7.0379289	-1.403506	0.1932856	0.50053	-5.308516
ZNF84	-0.093788	6.90461	-1.403309	0.1933422	0.50059	-5.308756
HENMT1	-0.127852	7.1778342	-1.403062	0.1934136	0.50069	-5.30906
ZFX	0.1417039	7.5015466	1.4029431	0.1934481	0.50069	-5.309206
PWAR5	0.0960054	6.8015587	1.402651	0.1935325	0.50082	-5.309564
FAM102A	-0.096842	8.0733465	-1.402327	0.1936262	0.50097	-5.309961
L3MBTL3	0.1193373	7.0418087	1.4019332	0.19374	0.50116	-5.310443
BCYRN1	0.2119643	9.3711697	1.4018379	0.1937676	0.50116	-5.31056
ABCB7	-0.133345	8.6379219	-1.401619	0.193831	0.50123	-5.310829
RNF214	0.0865645	7.5381335	1.4015002	0.1938653	0.50123	-5.310974
DGCR9	0.0954635	6.8567643	1.401159	0.1939641	0.50136	-5.311392
PRKAR1B	0.208759	8.6480182	1.4010965	0.1939822	0.50136	-5.311469
CRX	0.1404721	7.1342415	1.4007955	0.1940694	0.50149	-5.311837
ZKSCAN3	-0.116456	7.6401736	-1.399947	0.1943154	0.50187	-5.312877
PNPLA6	0.1844947	9.1952541	1.3998496	0.1943436	0.50187	-5.312996
PGR	0.0883013	6.7832194	1.3998351	0.1943478	0.50187	-5.313013
DEPDC1	0.15259	8.2846585	1.3998197	0.1943522	0.50187	-5.313032
LMBR1	0.1069743	9.2563274	1.3995984	0.1944164	0.50195	-5.313303
POU2F3	0.1053466	6.8678497	1.3989851	0.1945944	0.50232	-5.314054
QKI	0.1353123	7.1964486	1.3986138	0.1947023	0.50247	-5.314508
SNORA11	0.0988635	6.8967869	1.3985428	0.1947229	0.50247	-5.314595
BACH1	-0.094433	7.0606425	-1.396978	0.1951781	0.50356	-5.316509
OR56A3	0.1167421	6.7859157	1.3965657	0.1952981	0.5037	-5.317013
SFXN3	-0.10992	6.9724254	-1.396548	0.1953032	0.5037	-5.317035
SEC22C	0.0875006	8.4196391	1.3960537	0.1954473	0.50398	-5.317639
RPAP2	-0.108968	8.0581172	-1.395796	0.1955225	0.50409	-5.317954
DRG2	0.1133765	8.4900606	1.3955866	0.1955834	0.50416	-5.31821
NUP85	0.1334018	10.302657	1.3950179	0.1957494	0.50443	-5.318905
ZCRB1	0.1309573	7.8044245	1.3949866	0.1957585	0.50443	-5.318943
SPANXB1	0.0911104	6.9106502	1.3939497	0.1960614	0.50512	-5.320209
SLC18A1	0.099788	7.0720299	1.3937034	0.1961333	0.50513	-5.32051

TRAPPC13	-0.114256	8.0519059	-1.393701	0.1961339	0.50513	-5.320512
USP35	-0.10467	6.9247961	-1.393488	0.1961964	0.50516	-5.320773
XPOT	0.1446076	8.9804294	1.3933943	0.1962237	0.50516	-5.320887
WDR76	0.1381011	7.8091541	1.3933111	0.1962481	0.50516	-5.320989
MTR	-0.141707	9.0286631	-1.392652	0.1964409	0.50556	-5.321793
MTFMT	-0.110822	9.3929396	-1.39239	0.1965176	0.50565	-5.322113
AMER2	0.1538877	7.0070841	1.3923049	0.1965426	0.50565	-5.322217
SLC16A4	-0.087232	6.8529503	-1.391807	0.1966883	0.50576	-5.322824
ENHO	0.0982134	6.9604556	1.391797	0.1966913	0.50576	-5.322836
UBIAD1	-0.129163	9.9465567	-1.39164	0.1967375	0.50576	-5.323028
ZNF706	0.1123641	7.7305827	1.3916395	0.1967375	0.50576	-5.323028
UCN	-0.118688	7.2752186	-1.391522	0.1967719	0.50576	-5.323171
PTAR1	0.1013349	8.4122678	1.391448	0.1967937	0.50576	-5.323262
FBLN7	-0.084511	6.9330256	-1.39116	0.1968781	0.50576	-5.323613
FAM86B1	0.1048228	8.0190911	1.3910686	0.1969049	0.50576	-5.323725
AKIP1	-0.097808	8.0663921	-1.391005	0.1969235	0.50576	-5.323802
USP49	-0.217071	9.3903306	-1.39097	0.1969338	0.50576	-5.323845
OR5M10	0.1117508	6.819024	1.3906367	0.1970316	0.50592	-5.324251
TSPYL4	0.0987873	7.2500007	1.3899772	0.1972253	0.50623	-5.325055
SH3BGRL	0.0882288	8.6940127	1.3899397	0.1972363	0.50623	-5.325101
TCEA3	0.0990522	6.7137259	1.3897749	0.1972847	0.50623	-5.325302
TWNK	0.1824138	9.3455711	1.3897645	0.1972877	0.50623	-5.325314
SEH1L	0.0996293	9.5108238	1.3893151	0.1974198	0.50645	-5.325862
C16orf70	0.1231626	7.5621499	1.3892343	0.1974436	0.50645	-5.325961
WSB2	0.1092546	6.7737669	1.3889544	0.1975259	0.50657	-5.326301
MRPS16	-0.088392	10.02768	-1.388691	0.1976035	0.50667	-5.326623
NMT1	-0.11834	8.8433307	-1.388587	0.1976341	0.50667	-5.326749
DDX20	-0.252286	7.3430389	-1.388273	0.1977265	0.50678	-5.327132
EXOSC10	-0.091296	9.9210331	-1.388208	0.1977456	0.50678	-5.327211
ING3	-0.095068	7.6320569	-1.387888	0.1978397	0.50681	-5.3276
PACRG-AS1	0.0886215	6.9942049	1.3878825	0.1978414	0.50681	-5.327607
SLC7A6	-0.142414	8.3025302	-1.387619	0.1979189	0.50681	-5.327927
CCT8L1P	0.1000771	7.1159809	1.3876024	0.1979239	0.50681	-5.327948
ELP6	-0.100567	8.7208278	-1.387474	0.1979618	0.50681	-5.328105
NMT2	-0.116693	7.533713	-1.38746	0.1979657	0.50681	-5.328121
MRPS6	-0.130895	12.670354	-1.386672	0.1981983	0.50725	-5.329081
KCNJ15	0.0907298	6.9088233	1.3866284	0.1982111	0.50725	-5.329134
TP53INP1	-0.104462	7.4215505	-1.386522	0.1982423	0.50725	-5.329263
FUS	-0.095064	7.954766	-1.386378	0.1982848	0.50727	-5.329438
POLR1D	-0.099796	11.131213	-1.386061	0.1983784	0.50736	-5.329824
HLA-F-AS1	0.1352221	6.9921346	1.3860156	0.1983919	0.50736	-5.329879
CAPN12	-0.084057	6.8832036	-1.385583	0.1985195	0.50756	-5.330405
HOGA1	0.0958944	6.7422422	1.3854474	0.1985597	0.50756	-5.33057
SPRY4	-0.092432	6.8045654	-1.385402	0.1985732	0.50756	-5.330626
TTC7A	0.0948082	7.2998681	1.3850213	0.1986856	0.50776	-5.331089

CTDSPL2	0.0877065	7.7832863	1.3847686	0.1987603	0.50786	-5.331396
SLC24A3	-0.091408	6.8245421	-1.384344	0.1988859	0.50809	-5.331912
ASB3	-0.086636	8.7419856	-1.384051	0.1989727	0.50817	-5.332269
PEX11B	0.1006345	9.931943	1.3840031	0.1989868	0.50817	-5.332326
LOC644215	0.0988144	6.8225546	1.3813375	0.1997771	0.51008	-5.335564
CATSPERZ	0.1978438	7.0059925	1.3812496	0.1998032	0.51008	-5.335671
EXOSC6	0.146715	9.8230652	1.3811292	0.1998389	0.51008	-5.335817
BTBD11	0.0983002	6.8906904	1.3808999	0.1999071	0.51017	-5.336095
CTSA	0.1492128	7.7910838	1.3807256	0.1999589	0.51018	-5.336307
YKT6	0.0994101	7.0772857	1.3806445	0.199983	0.51018	-5.336405
ARPC1B	0.193022	9.9396894	1.3801452	0.2001314	0.51047	-5.337011
FOSB	-0.085499	7.306399	-1.379951	0.2001891	0.5105	-5.337247
ARX	-0.12811	7.0268434	-1.379831	0.2002249	0.5105	-5.337392
ISL2	-0.098319	6.9564222	-1.379688	0.2002673	0.5105	-5.337565
RPS4X	0.0856126	13.295453	1.3796343	0.2002834	0.5105	-5.337631
PARD3	-0.102067	6.7717756	-1.378685	0.200566	0.51113	-5.338782
GGT3P	-0.087866	6.9335331	-1.378082	0.200746	0.51142	-5.339514
MYL12B	0.1391819	11.781357	1.3780737	0.2007484	0.51142	-5.339523
SCPEP1	-0.081478	9.6778343	-1.377892	0.2008026	0.51147	-5.339744
IFIT5	-0.110743	6.9653833	-1.377726	0.2008522	0.51151	-5.339945
HMBOX1	0.1277573	7.5638999	1.3774617	0.2009309	0.51157	-5.340265
ZNF80	-0.09312	6.932095	-1.377354	0.2009632	0.51157	-5.340396
KYNU	0.123259	8.6142012	1.3772926	0.2009814	0.51157	-5.34047
RAB29	0.1042349	8.8754102	1.3768351	0.201118	0.51183	-5.341024
UGGT1	0.1467275	7.7180308	1.3757597	0.2014394	0.51248	-5.342327
ZNF558	-0.099396	7.4892234	-1.375739	0.2014457	0.51248	-5.342352
VPS18	0.1327961	8.0056304	1.3754258	0.2015393	0.51263	-5.342731
TCP1	-0.083368	10.160725	-1.375218	0.2016016	0.5127	-5.342983
MAD1L1	0.0914461	7.1946217	1.3749331	0.2016868	0.5128	-5.343327
PRR12	-0.119461	6.9049754	-1.374847	0.2017126	0.5128	-5.343431
SWT1	-0.118149	7.1030677	-1.374674	0.2017645	0.51283	-5.343641
TM6SF1	-0.089002	6.7322753	-1.374496	0.2018176	0.51283	-5.343856
ADAMTS15	0.0893652	6.9690339	1.3743433	0.2018634	0.51283	-5.344041
RCN1	-0.123683	7.0014937	-1.374254	0.2018903	0.51283	-5.344149
C19orf43	-0.094684	9.9910429	-1.374226	0.2018985	0.51283	-5.344182
ZGRF1	-0.156929	7.3895289	-1.373986	0.2019706	0.51286	-5.344474
PPP1R11	0.1866463	10.56368	1.3736065	0.2020843	0.51286	-5.344932
KCNJ10	0.0882503	7.2732218	1.3734323	0.2021366	0.51286	-5.345143
STAM	-0.111368	8.4803955	-1.373367	0.2021562	0.51286	-5.345222
UXS1	0.1237418	7.1650434	1.3733343	0.202166	0.51286	-5.345262
ZCCHC3	0.0872222	7.6912872	1.3731475	0.202222	0.51286	-5.345487
OR10X1	0.0895115	6.9055726	1.3730466	0.2022523	0.51286	-5.34561
MTHFR	0.1977742	7.6130796	1.3727835	0.2023312	0.51286	-5.345928
LACTB2	0.0896781	6.7306214	1.3727215	0.2023499	0.51286	-5.346003
PRIM2	-0.150837	7.5205075	-1.372679	0.2023626	0.51286	-5.346054

SRPK1	0.1203809	11.042738	1.3724955	0.2024177	0.51286	-5.346276
MCM9	-0.119842	7.128013	-1.372451	0.202431	0.51286	-5.346329
DEF8	-0.105344	9.1764407	-1.372375	0.2024539	0.51286	-5.346421
FAM173B	-0.113778	7.5487172	-1.372324	0.2024693	0.51286	-5.346483
PIP4K2A	0.0924915	10.165229	1.372322	0.2024698	0.51286	-5.346485
TIGD5	-0.14946	9.1562292	-1.372306	0.2024746	0.51286	-5.346505
KCNK6	-0.08099	6.9241998	-1.372133	0.2025265	0.51291	-5.346714
RPL17	0.0917595	13.393714	1.371832	0.2026171	0.51296	-5.347078
TVP23B	0.1382636	8.7141872	1.3718266	0.2026187	0.51296	-5.347084
NOX1	0.0884548	6.8979323	1.3717035	0.2026557	0.51297	-5.347233
ADCY9	-0.081207	6.7527304	-1.37124	0.2027951	0.51322	-5.347793
NECAB3	-0.088177	7.4300278	-1.371138	0.2028257	0.51322	-5.347916
CCDC144A	0.1118429	6.8552959	1.370589	0.202991	0.51355	-5.34858
LMX1B	-0.081141	6.8495514	-1.37047	0.2030269	0.51355	-5.348724
HMGXB4	0.0930829	7.6727592	1.3702511	0.2030927	0.51363	-5.348988
CFAP74	-0.178663	9.7019958	-1.369312	0.2033757	0.51425	-5.350121
UBE2L3	-0.094054	8.4055239	-1.368767	0.20354	0.5145	-5.350779
C1QA	0.1187561	7.0498622	1.3686465	0.2035765	0.5145	-5.350925
SHISA4	0.0940015	6.9706469	1.368551	0.2036053	0.5145	-5.35104
LYPLA2P1	0.1319043	7.3951112	1.3685239	0.2036135	0.5145	-5.351073
SH3BGRL3	0.1159332	9.107434	1.3682235	0.2037042	0.5146	-5.351435
MDM4	0.1150587	7.5005748	1.3681616	0.2037229	0.5146	-5.35151
ZNF627	-0.088553	8.2044994	-1.367865	0.2038126	0.51473	-5.351868
MCPH1	-0.102291	7.4165025	-1.36714	0.2040316	0.51503	-5.352742
CRTC3	0.1469554	7.3513226	1.3670286	0.2040652	0.51503	-5.352876
TMEM39B	0.1933653	9.3413454	1.3669842	0.2040787	0.51503	-5.35293
ALKBH3	-0.159913	8.2421763	-1.366918	0.2040987	0.51503	-5.35301
TGFB3	-0.089244	6.881099	-1.366893	0.2041062	0.51503	-5.35304
PARP2	-0.089957	8.4638973	-1.366318	0.2042803	0.51528	-5.353733
SNAPIN	-0.156264	8.3348022	-1.366286	0.2042898	0.51528	-5.353771
FAM72A	0.098954	7.7922988	1.3662084	0.2043134	0.51528	-5.353865
FAAP24	-0.14828	7.9424231	-1.365883	0.2044119	0.51544	-5.354257
RANBP10	0.134311	8.3616136	1.3655651	0.2045082	0.51554	-5.35464
LRRC37BP1	-0.114291	8.8351835	-1.365411	0.2045549	0.51554	-5.354826
PRKD3	0.1407723	7.2426976	1.365408	0.2045558	0.51554	-5.35483
DCAF10	0.1060407	8.2217654	1.3651857	0.2046232	0.51555	-5.355098
APEX1	0.1366221	12.198238	1.3650555	0.2046627	0.51555	-5.355254
PCDHB16	-0.112636	6.9452271	-1.364987	0.2046833	0.51555	-5.355336
ATP8A1	-0.101125	7.3613498	-1.364831	0.2047308	0.51555	-5.355525
PAK4	0.0879658	7.3063291	1.3648166	0.2047351	0.51555	-5.355542
TMEM55A	-0.119803	7.7502227	-1.364627	0.2047927	0.51557	-5.355771
NFE2	-0.102788	6.7340905	-1.364549	0.2048162	0.51557	-5.355865
PWP1	-0.08716	10.950413	-1.36438	0.2048676	0.51561	-5.356068
C11orf54	-0.107737	8.1280055	-1.364012	0.2049791	0.5158	-5.356511
TCAM1P	0.0904347	7.350301	1.3639058	0.2050115	0.5158	-5.356639

FRG1BP	0.1950929	8.4340911	1.3636072	0.2051021	0.51594	-5.356999
NPIPA1	0.1113217	8.3284664	1.3631856	0.2052302	0.51617	-5.357506
ELOVL3	0.1056488	6.9477596	1.3628077	0.2053451	0.51637	-5.357961
SLC11A2	-0.100123	8.5175623	-1.362576	0.2054154	0.51646	-5.358239
NQO1	-0.104318	7.6711875	-1.36244	0.2054567	0.51647	-5.358403
PSMG2	0.113551	11.233878	1.3618299	0.2056425	0.51685	-5.359137
POMGNT1	-0.153341	9.4202679	-1.361702	0.2056815	0.51686	-5.359291
MRS2	-0.092983	8.8659541	-1.361266	0.2058141	0.5171	-5.359815
PSMA6	-0.120265	12.222432	-1.361033	0.2058853	0.51711	-5.360096
SLC7A11	0.082146	7.0210287	1.3610216	0.2058887	0.51711	-5.360109
SNORA11D	0.0977328	7.3040378	1.3604442	0.2060647	0.51747	-5.360804
PDLIM1	-0.095445	7.8903013	-1.360133	0.2061595	0.51762	-5.361177
IGFALS	0.0899982	6.9812822	1.3599447	0.206217	0.51766	-5.361404
DCAF12	0.1024596	10.693141	1.3598461	0.2062471	0.51766	-5.361522
NEURL2	-0.08562	6.9055422	-1.359684	0.2062966	0.51769	-5.361717
PSMA4	-0.124853	11.655462	-1.358871	0.2065449	0.51817	-5.362694
JMJD4	0.1363311	7.9050653	1.3588267	0.2065584	0.51817	-5.362747
APOL6	0.1018657	7.0928393	1.3585876	0.2066314	0.51817	-5.363034
TMEM33	0.1069326	8.6959302	1.3584839	0.2066631	0.51817	-5.363159
DCAF6	-0.128287	8.5179842	-1.358448	0.2066741	0.51817	-5.363202
PIP4K2C	0.100153	8.0165049	1.3583593	0.2067012	0.51817	-5.363308
CLDN14	-0.107521	8.0097699	-1.358169	0.2067595	0.51823	-5.363537
SPTA1	0.0973533	6.9571316	1.3575913	0.2069361	0.51853	-5.364231
DBNDD1	-0.082615	7.0480593	-1.357533	0.2069538	0.51853	-5.3643
SAAL1	-0.109994	10.492183	-1.357359	0.2070071	0.51853	-5.364509
PYGB	0.1429316	8.0124972	1.3573156	0.2070205	0.51853	-5.364561
ARHGEF40	0.1100242	7.021967	1.3570384	0.2071054	0.51857	-5.364894
CYP1B1	0.1184406	6.8250535	1.3569573	0.2071302	0.51857	-5.364991
STX18	-0.129628	7.1524809	-1.356911	0.2071444	0.51857	-5.365047
CLSTN3	0.154945	7.0574582	1.3565807	0.2072456	0.51867	-5.365443
ZNF599	0.1023608	6.8896859	1.3565365	0.2072591	0.51867	-5.365496
CEP97	-0.113559	6.820092	-1.3564	0.2073008	0.51867	-5.36566
PPP4R4	-0.118733	7.1211335	-1.356314	0.2073273	0.51867	-5.365763
ZNF276	0.1337169	7.1176421	1.3561573	0.2073753	0.5187	-5.365951
CEP85	-0.110309	9.2822318	-1.355664	0.2075267	0.51899	-5.366543
BRCC3	0.1284905	7.959306	1.3553004	0.2076382	0.51918	-5.366979
BEND3	0.0820175	7.4061497	1.3551455	0.2076857	0.51921	-5.367165
RBM18	-0.089541	8.6111754	-1.354889	0.2077645	0.51932	-5.367472
DZIP1	0.0824813	6.7805619	1.3545059	0.2078821	0.51953	-5.367931
FAM86B3P	-0.089815	7.1059815	-1.353629	0.2081517	0.52011	-5.368982
FHL3	-0.105683	6.7781282	-1.352831	0.2083972	0.52064	-5.369938
FAM118A	0.0902508	7.2723967	1.3526678	0.2084474	0.52067	-5.370134
DDT	0.0985653	12.23627	1.352377	0.208537	0.52081	-5.370482
SLC41A1	0.1294175	8.3728013	1.3519263	0.2086758	0.52096	-5.371021
GRID2	0.1666777	6.8960984	1.3518648	0.2086948	0.52096	-5.371095

PCMTD2	0.0863695	8.895084	1.3518293	0.2087057	0.52096	-5.371138
THSD7A	-0.083733	6.8917569	-1.351652	0.2087605	0.52101	-5.37135
RNU4ATAC	-0.153909	7.797708	-1.351405	0.2088365	0.52111	-5.371645
MUC16	-0.093793	6.8916982	-1.351204	0.2088985	0.52118	-5.371886
BTN3A1	-0.08946	7.3552506	-1.350975	0.2089691	0.52126	-5.37216
CNTN5	0.0836838	6.8883509	1.3506385	0.209073	0.52143	-5.372563
UROD	-0.096724	10.60791	-1.3503	0.2091776	0.52153	-5.372968
DTWD1	-0.133003	8.7445187	-1.35027	0.2091869	0.52153	-5.373004
MIP	0.1069316	6.9699061	1.3500759	0.2092468	0.52153	-5.373236
SWI5	0.1783126	9.6214001	1.350055	0.2092532	0.52153	-5.373261
AGBL2	-0.082188	6.761417	-1.349902	0.2093006	0.52155	-5.373444
XBP1	0.1374857	11.452883	1.3492489	0.2095023	0.52197	-5.374225
CIRBP	0.1415811	10.936816	1.3490751	0.2095561	0.52201	-5.374432
ZNF562	0.1742648	8.0878675	1.3488242	0.2096337	0.52205	-5.374732
EVA1C	0.0922023	6.8043308	1.3487929	0.2096434	0.52205	-5.37477
AKR1D1	-0.110547	9.8173662	-1.348384	0.2097699	0.52225	-5.375258
CDC20B	0.1389185	6.9029202	1.3483074	0.2097937	0.52225	-5.37535
POTEE	0.1049575	7.1502515	1.3478135	0.2099466	0.52254	-5.37594
ZNF597	-0.09152	6.8255052	-1.347373	0.2100832	0.52279	-5.376467
SERPINE2	-0.093608	6.7684176	-1.346986	0.2102032	0.523	-5.376929
ZSCAN26	-0.152984	7.665448	-1.346766	0.2102714	0.52308	-5.377192
GJD3	0.0905508	6.759969	1.3465701	0.2103321	0.52314	-5.377425
USF2	0.1070944	8.1264109	1.3464058	0.2103831	0.52318	-5.377621
DGKG	0.0829282	6.8729145	1.3460336	0.2104986	0.52338	-5.378066
ADAMTS8	0.098722	6.8554318	1.3459023	0.2105394	0.52339	-5.378222
MAGEF1	0.103176	7.8706748	1.3457084	0.2105996	0.52342	-5.378454
SLC39A4	0.1019619	7.8631865	1.3456383	0.2106214	0.52342	-5.378537
VEGFB	-0.087279	8.7168039	-1.345219	0.2107517	0.52359	-5.379038
MRPL11	-0.088774	9.8599868	-1.345184	0.2107624	0.52359	-5.379079
PON2	-0.085402	6.7788261	-1.344947	0.2108362	0.52368	-5.379363
THUMPD3	-0.099223	7.441488	-1.344819	0.2108758	0.52368	-5.379514
FGFR1OP2	-0.204926	7.8923266	-1.344633	0.2109338	0.52368	-5.379737
PLPPR3	-0.102599	6.7408501	-1.344602	0.2109435	0.52368	-5.379774
PGLYRP2	0.0939332	6.8025782	1.3439442	0.2111481	0.52388	-5.380558
ETFA	-0.095445	11.531333	-1.343671	0.2112333	0.52388	-5.380885
SAYSD1	-0.122023	7.8086571	-1.343652	0.211239	0.52388	-5.380907
OPRD1	0.140061	7.1320072	1.3434833	0.2112916	0.52388	-5.381108
HERC2P2	-0.085925	6.9295622	-1.343426	0.2113096	0.52388	-5.381177
HECTD3	-0.084237	8.3487807	-1.34342	0.2113112	0.52388	-5.381183
RAB5A	0.144342	8.6546962	1.3433883	0.2113212	0.52388	-5.381221
GTF2I	0.1249022	7.6162867	1.3433049	0.2113472	0.52388	-5.381321
ARHGAP12	-0.093666	7.4283342	-1.343253	0.2113632	0.52388	-5.381382
IP6K2	-0.094331	7.7653948	-1.343186	0.2113842	0.52388	-5.381462
RPA4	-0.099458	7.0592541	-1.342988	0.2114461	0.52391	-5.381699
FAM131A	-0.095528	6.7932103	-1.342884	0.2114782	0.52391	-5.381822

TECPR1	0.0996152	7.1511906	1.342806	0.2115026	0.52391	-5.381915
P2RY13	0.1090173	6.952491	1.3425473	0.2115833	0.52394	-5.382224
TIRAP	0.0817037	6.9012719	1.3425423	0.2115849	0.52394	-5.38223
TRIM14	-0.092164	6.9838825	-1.342333	0.2116502	0.52401	-5.382479
ZNF425	0.1005413	7.011763	1.3421546	0.2117058	0.52406	-5.382692
ASB4	-0.096301	6.8321953	-1.341865	0.2117961	0.52415	-5.383036
ZNF689	0.1234651	9.4861467	1.3417995	0.2118166	0.52415	-5.383115
ANKDD1A	-0.080056	7.0553536	-1.341605	0.2118773	0.52422	-5.383346
KRT9	0.0956965	6.836746	1.34138	0.2119476	0.5243	-5.383614
FAM193A	0.1031696	8.0907801	1.3412055	0.212002	0.52434	-5.383822
PRDM8	-0.086086	6.8366265	-1.341103	0.2120342	0.52434	-5.383945
FBLN5	-0.099664	7.0752842	-1.340859	0.2121103	0.52444	-5.384235
NPM2	-0.106712	6.7846604	-1.340686	0.2121644	0.52448	-5.384441
CRYBB2	-0.137555	9.7945213	-1.340416	0.2122488	0.5246	-5.384762
CLK2P1	-0.101787	6.8923885	-1.339886	0.2124146	0.52476	-5.385393
PRDX5	0.1344949	11.776011	1.3398787	0.2124168	0.52476	-5.385402
ADORA2B	-0.132232	7.9266886	-1.33972	0.2124664	0.52476	-5.38559
ZNF263	0.1001299	9.3276387	1.3396162	0.212499	0.52476	-5.385714
IFITM3	-0.131962	7.0938728	-1.339539	0.2125231	0.52476	-5.385806
CXCR4	0.1067315	8.7975461	1.3394309	0.2125569	0.52476	-5.385935
PPP2R5E	0.1489656	10.27773	1.3394045	0.2125652	0.52476	-5.385966
GTDC1	0.0981339	7.7262556	1.3389469	0.2127085	0.52494	-5.38651
NUAK1	-0.085514	6.9313257	-1.338946	0.2127088	0.52494	-5.386512
BRMS1L	0.0798656	7.7018914	1.3385358	0.2128373	0.52517	-5.386999
UBXN1	0.0951407	11.07687	1.3381107	0.2129705	0.52541	-5.387505
BNIP1	-0.111006	8.2845888	-1.337234	0.2132454	0.52579	-5.388547
HACD3	0.0867592	9.6567178	1.3371276	0.213279	0.52579	-5.388674
PSORS1C3	-0.106584	7.2690666	-1.336794	0.2133837	0.52579	-5.38907
TMEM222	0.1218157	8.1620747	1.3367557	0.2133957	0.52579	-5.389115
LINC00623	-0.130192	9.3373321	-1.336736	0.2134019	0.52579	-5.389139
EIF6	0.1146203	9.5912821	1.3366827	0.2134187	0.52579	-5.389202
CDC14A	0.0860452	7.0810506	1.3366641	0.2134245	0.52579	-5.389224
LOC403312	0.1345485	6.9311583	1.3366357	0.2134334	0.52579	-5.389258
C11orf57	-0.102363	8.6707869	-1.336577	0.2134518	0.52579	-5.389327
RPS2P40	0.109849	14.507243	1.3363237	0.2135315	0.5259	-5.389629
SMARCA2	-0.086231	10.197313	-1.335906	0.2136627	0.52614	-5.390125
DYNC2LI1	-0.092999	7.6135386	-1.335382	0.2138277	0.52645	-5.390748
SIGLEC10	-0.101742	7.8968826	-1.334006	0.2142607	0.52743	-5.39238
F7	-0.08296	6.9515329	-1.333694	0.214359	0.52758	-5.39275
FOXN3	0.0881833	8.1418683	1.333489	0.2144238	0.52765	-5.392994
FBXO10	0.1064088	7.222267	1.3332349	0.2145039	0.52769	-5.393295
TXLNGY	-0.107271	8.9872838	-1.333212	0.214511	0.52769	-5.393322
PRAG1	0.0817994	8.6781849	1.3329473	0.2145947	0.52781	-5.393637
MAB21L2	-0.082861	6.8049203	-1.332679	0.2146793	0.52793	-5.393954
ANAPC5	0.1195865	11.42714	1.3324746	0.2147439	0.528	-5.394197

FAAH	0.0898423	6.86093	1.332225	0.2148227	0.52805	-5.394493
KLF8	-0.096972	6.7650384	-1.332078	0.2148691	0.52805	-5.394667
TRIM41	0.1161387	8.1834411	1.3320387	0.2148815	0.52805	-5.394714
CERS2	-0.09476	9.3303405	-1.331897	0.2149264	0.52805	-5.394882
P2RX7	-0.19323	6.9791681	-1.331721	0.2149818	0.52805	-5.39509
PIP4K2B	-0.11262	8.3416828	-1.33169	0.2149918	0.52805	-5.395127
PSMD13	-0.093609	8.048769	-1.331602	0.2150194	0.52805	-5.395231
ZNF740	0.1245281	7.1870403	1.330537	0.2153564	0.5287	-5.396494
DNAJC11	0.1432713	8.1130678	1.3305354	0.2153569	0.5287	-5.396495
CIDECP	0.1047748	7.0186363	1.3303019	0.2154308	0.5287	-5.396772
USP8	-0.106126	8.1784756	-1.33021	0.2154599	0.5287	-5.396881
NELFA	0.1020208	7.8296596	1.3299036	0.2155569	0.5287	-5.397244
FAM169A	-0.135801	6.8999007	-1.329868	0.2155683	0.5287	-5.397286
SIMC1	0.1074006	7.5918208	1.3298324	0.2155795	0.5287	-5.397328
TF	-0.099194	6.8268482	-1.329789	0.2155931	0.5287	-5.397379
ZNF264	-0.120247	6.8969136	-1.32964	0.2156405	0.5287	-5.397556
GNG7	0.1404083	9.4177428	1.3296237	0.2156456	0.5287	-5.397575
COL18A1	0.0813714	6.7871548	1.3294054	0.2157148	0.52872	-5.397834
CDIPT	0.0817124	7.5529976	1.3293695	0.2157262	0.52872	-5.397876
IL17D	-0.118288	6.9145953	-1.329188	0.2157838	0.52877	-5.398091
LINC01915	0.1442573	7.1285926	1.3285716	0.2159792	0.52909	-5.398821
ANGEL1	0.1349589	8.0287389	1.3284194	0.2160275	0.52909	-5.399001
SLC17A9	0.166377	7.6047377	1.3283441	0.2160514	0.52909	-5.39909
TBCB	0.1703398	10.67417	1.3282692	0.2160752	0.52909	-5.399179
SCARNA13	-0.107184	8.0399727	-1.328209	0.2160942	0.52909	-5.39925
MRPS30	0.1563878	11.303235	1.3280806	0.216135	0.52909	-5.399402
ZNF565	-0.092026	7.0114906	-1.32798	0.2161671	0.52909	-5.399521
HSPB1P1	-0.117233	7.1461741	-1.327782	0.2162298	0.52915	-5.399755
INO80C	-0.142514	9.5516959	-1.327392	0.2163536	0.52925	-5.400216
UPF3A	0.1589171	9.0977597	1.3273631	0.2163629	0.52925	-5.40025
MOB3A	-0.126393	9.0261422	-1.32732	0.2163765	0.52925	-5.400301
FZD1	0.1036	7.0719801	1.3268979	0.2165107	0.52949	-5.4008
C1QBP	-0.117587	13.003615	-1.325753	0.2168751	0.53012	-5.402154
SCAMP5	-0.086929	6.8565759	-1.325592	0.2169261	0.53012	-5.402344
NOSIP	-0.110368	10.248209	-1.325587	0.216928	0.53012	-5.40235
RIPPLY3	-0.096993	6.8868312	-1.325503	0.2169547	0.53012	-5.40245
ENDOD1	0.1439633	7.9529719	1.3254131	0.2169832	0.53012	-5.402556
TIPARP	-0.124751	8.3478242	-1.325398	0.2169879	0.53012	-5.402573
NOC4L	0.1108786	7.7987602	1.3248177	0.2171729	0.53048	-5.403259
FOXD2-AS1	0.1439257	7.4353642	1.3245365	0.2172626	0.53059	-5.403591
S1PR1	0.1237945	7.3610318	1.3244515	0.2172897	0.53059	-5.403691
ZWINT	0.0892539	7.690892	1.3242094	0.2173669	0.53069	-5.403977
BEND5	0.080205	7.4775849	1.3240402	0.2174209	0.53073	-5.404177
ISCU	-0.088368	9.6473744	-1.323687	0.2175336	0.53078	-5.404594
CD37	0.2244677	9.6152006	1.3235986	0.2175618	0.53078	-5.404699

SLC28A1	0.0843825	7.017358	1.3235403	0.2175804	0.53078	-5.404767
PI4KA	-0.099743	8.5310892	-1.323526	0.217585	0.53078	-5.404784
MFSD8	-0.086171	7.9668731	-1.323265	0.2176683	0.53089	-5.405092
HJURP	0.1006927	8.8398762	1.3229222	0.2177778	0.53107	-5.405497
CRTC1	0.0861723	6.7818223	1.3227888	0.2178204	0.53109	-5.405654
DNAAF3	-0.12514	8.0238789	-1.322631	0.2178708	0.53109	-5.40584
HSPA4	-0.109851	9.4236646	-1.322558	0.2178943	0.53109	-5.405927
ZNF234	-0.101207	6.8896151	-1.322218	0.2180029	0.53111	-5.406328
POLR3D	-0.0851	7.2187937	-1.322112	0.2180367	0.53111	-5.406452
BEST1	0.0891295	6.8572707	1.322086	0.2180451	0.53111	-5.406483
ASB8	-0.106063	8.40511	-1.322081	0.2180468	0.53111	-5.40649
SNORD109B	0.0903597	6.8883171	1.3219646	0.218084	0.53111	-5.406627
NRG1	-0.090534	6.8971615	-1.321709	0.2181657	0.53122	-5.406928
WDR26	0.1149803	8.2357786	1.3214356	0.2182532	0.53134	-5.407251
ZNF16	-0.086106	7.7701411	-1.321177	0.2183358	0.53146	-5.407555
SLC9A4	-0.109286	7.239071	-1.320898	0.2184254	0.53158	-5.407885
CABP7	0.0993066	6.8922442	1.320791	0.2184596	0.53158	-5.408011
COPG2	0.1554345	8.9970239	1.3201554	0.2186633	0.53199	-5.40876
WDR45B	0.0892887	8.8844094	1.3197746	0.2187854	0.5322	-5.409208
YY1	0.0994042	10.072642	1.3187379	0.2191181	0.53287	-5.41043
TRIM13	-0.081462	7.8303936	-1.318602	0.2191618	0.53287	-5.41059
NMU	-0.105715	9.4628838	-1.318518	0.2191888	0.53287	-5.410689
ZSCAN21	-0.124052	7.920654	-1.318458	0.2192081	0.53287	-5.410759
DFFB	-0.098803	8.337219	-1.318211	0.2192875	0.53296	-5.41105
EPS8	-0.090559	6.7447238	-1.318119	0.219317	0.53296	-5.411158
SNORD42B	-0.157529	7.0313036	-1.317858	0.2194009	0.53296	-5.411466
SLPI	-0.082003	6.7879713	-1.317696	0.2194528	0.53296	-5.411656
NIM1K	0.1038801	6.8337801	1.3176697	0.2194614	0.53296	-5.411687
NUMBL	-0.105916	7.2415869	-1.31756	0.2194968	0.53296	-5.411817
HEXIM2	-0.133179	7.3249243	-1.31754	0.2195032	0.53296	-5.41184
PRMT5	0.1084907	10.339767	1.317114	0.2196401	0.53321	-5.412341
PLEKHG2	-0.104349	7.0268564	-1.31673	0.2197639	0.53342	-5.412793
ABI3	-0.15644	8.8031449	-1.316581	0.2198116	0.53345	-5.412968
RTP4	-0.125744	6.8857624	-1.316314	0.2198977	0.53357	-5.413282
MIR591	-0.113504	6.7912449	-1.315984	0.220004	0.53372	-5.41367
CWF19L1	-0.126914	10.400705	-1.315892	0.2200337	0.53372	-5.413779
HDHD3	-0.108438	7.9349869	-1.315648	0.2201122	0.53382	-5.414065
ANKRD26	0.1062109	7.6818903	1.3154939	0.220162	0.53385	-5.414246
SURF2	-0.121273	7.5285159	-1.315017	0.2203158	0.53407	-5.414807
EIF4ENIF1	0.1502327	8.8829965	1.3149905	0.2203243	0.53407	-5.414838
TMED10P1	-0.090375	11.074169	-1.314608	0.2204479	0.53424	-5.415288
AFAP1	0.1036622	6.8785199	1.3145485	0.220467	0.53424	-5.415358
SYNGR3	0.0958513	7.3672939	1.314293	0.2205494	0.53426	-5.415658
PADI2	0.1323818	7.0335718	1.314214	0.220575	0.53426	-5.415751
CRB1	-0.084059	6.9196449	-1.314132	0.2206013	0.53426	-5.415846

PLP1	0.1039787	7.4483972	1.3140687	0.2206219	0.53426	-5.415921
ZFP62	-0.105508	7.3130411	-1.31386	0.2206892	0.53433	-5.416166
CARD19	-0.102357	7.8647392	-1.313608	0.2207706	0.53436	-5.416462
DCDC1	0.0915866	6.7992706	1.313598	0.2207739	0.53436	-5.416474
TANGO6	-0.154844	7.5677366	-1.313123	0.2209276	0.53464	-5.417032
BTBD6	0.1987659	9.9078736	1.3128335	0.2210211	0.53478	-5.417372
YIPF7	0.0847081	6.8381785	1.3124965	0.2211301	0.53489	-5.417768
MAST1	-0.133777	6.948657	-1.312474	0.2211374	0.53489	-5.417794
COX7C	-0.136641	13.944694	-1.312234	0.221215	0.5349	-5.418075
C11orf24	-0.118819	7.7911519	-1.312233	0.2212153	0.5349	-5.418077
RPS6KA3	0.1047416	7.6960916	1.3120926	0.2212609	0.53491	-5.418242
ERGIC1	0.1161749	7.8331477	1.3119872	0.221295	0.53491	-5.418365
SLITRK5	-0.093628	6.8785304	-1.311537	0.2214409	0.53518	-5.418894
MCMDC2	-0.181479	10.46429	-1.310837	0.2216676	0.53564	-5.419714
FAM177B	-0.115504	6.9226109	-1.310691	0.221715	0.53566	-5.419886
SLC11A1	-0.097347	6.7965737	-1.310007	0.2219369	0.53611	-5.420688
SLC22A20	-0.102176	7.0561793	-1.309397	0.2221352	0.53633	-5.421404
HIST1H3F	-0.107695	7.4325667	-1.309337	0.2221544	0.53633	-5.421473
TRIM37	0.079379	7.6964779	1.309243	0.2221851	0.53633	-5.421584
TOMM70	0.1082653	10.774702	1.3092113	0.2221954	0.53633	-5.421621
C17orf67	-0.113354	6.9414147	-1.309163	0.2222111	0.53633	-5.421677
VDAC1	0.1335652	12.694787	1.3088347	0.2223178	0.5365	-5.422062
PPP3CB	0.1099651	9.7004379	1.308427	0.2224504	0.53669	-5.42254
PRDX3	0.1320467	11.884864	1.3083595	0.2224723	0.53669	-5.422619
FYTTD1	-0.100418	8.1078645	-1.307899	0.2226223	0.5369	-5.423159
SFT2D1	0.0986815	12.409607	1.3078672	0.2226325	0.5369	-5.423195
MANF	-0.093393	12.36119	-1.30767	0.2226967	0.53697	-5.423426
AGPAT3	0.0856872	7.1856214	1.307031	0.2229048	0.53734	-5.424174
LASP1	0.1187431	11.725272	1.3069733	0.2229236	0.53734	-5.424242
IL6ST	0.1321461	7.9298542	1.3066565	0.2230268	0.5375	-5.424613
ATG16L2	-0.115041	7.8709568	-1.306103	0.2232072	0.53784	-5.42526
HS1BP3	0.0813937	7.1226539	1.3054341	0.2234255	0.53828	-5.426043
CWF19L2	0.092054	8.2415694	1.3050507	0.2235507	0.53849	-5.426491
GNE	-0.116192	9.3007133	-1.304721	0.2236585	0.53866	-5.426877
PGAM4	0.1033574	10.439356	1.3044787	0.2237376	0.53866	-5.42716
AP1S1	0.1914648	9.0877406	1.304394	0.2237652	0.53866	-5.427259
DPM3	0.1735397	8.7010376	1.3043841	0.2237685	0.53866	-5.427271
USP25	-0.107363	7.0955929	-1.303436	0.2240787	0.53927	-5.428379
NRP1	-0.079974	6.8871727	-1.303235	0.2241443	0.53927	-5.428614
PRR27	-0.087514	6.8936796	-1.303211	0.2241521	0.53927	-5.428641
ATP2A3	0.0986647	8.0597102	1.3031595	0.224169	0.53927	-5.428702
PLD2	-0.114513	7.12114	-1.30291	0.2242508	0.53928	-5.428994
ENOPH1	-0.138698	10.571483	-1.30288	0.2242604	0.53928	-5.429028
TMC6	0.1132578	8.5439273	1.3028132	0.2242824	0.53928	-5.429106
MRAS	-0.076801	6.8514009	-1.302165	0.2244947	0.5397	-5.429863

MIR580	-0.081923	6.7162531	-1.301904	0.2245804	0.53981	-5.430168
TSPY2	-0.105499	6.9266961	-1.301524	0.2247048	0.5399	-5.430611
ATP10B	0.1232449	6.9191836	1.3014417	0.2247319	0.5399	-5.430708
ZNF322	0.0997923	7.2336157	1.3013939	0.2247475	0.5399	-5.430763
GLS	0.1029526	8.3613127	1.3013025	0.2247775	0.5399	-5.43087
XPNPEP3	0.1292958	9.8809229	1.3012128	0.224807	0.5399	-5.430975
PPP1CB	0.0853471	8.3625038	1.3010317	0.2248664	0.5399	-5.431186
RPUSD3	-0.097599	9.7934961	-1.30101	0.2248735	0.5399	-5.431211
CCNYL1	0.1012404	7.8996346	1.3008712	0.2249191	0.53992	-5.431373
VKORC1	-0.101102	9.7422564	-1.300693	0.2249774	0.53993	-5.431581
TCEAL4	0.0817068	6.8413746	1.300623	0.2250006	0.53993	-5.431663
MAPT	-0.10853	6.6835361	-1.300312	0.2251027	0.54009	-5.432026
NUSAP1	0.1554966	10.369708	1.2999731	0.225214	0.54026	-5.432421
TXNDC15	-0.14995	8.1114394	-1.299761	0.2252839	0.54026	-5.432669
RACK1	-0.112568	14.371798	-1.299619	0.2253304	0.54026	-5.432834
GARS	0.1636342	12.283763	1.2996083	0.2253339	0.54026	-5.432846
PSMD14	-0.205311	10.742702	-1.299429	0.2253929	0.54026	-5.433056
SERPINB11	0.1126255	6.8146326	1.2994195	0.225396	0.54026	-5.433067
PSEN1	-0.088874	6.979707	-1.298921	0.2255599	0.54042	-5.433647
KLHL28	0.0885582	7.8357233	1.2988953	0.2255684	0.54042	-5.433678
FCGR1A	-0.098	6.7670801	-1.298774	0.2256082	0.54042	-5.433819
DDX52	-0.115845	8.2133324	-1.298668	0.2256431	0.54042	-5.433942
KRTAP5-10	-0.108584	6.9563302	-1.298651	0.2256489	0.54042	-5.433963
BAIAP2L2	-0.08589	6.9762238	-1.29821	0.225794	0.54064	-5.434476
CD248	-0.084981	7.0267	-1.298147	0.2258148	0.54064	-5.43455
PRDM11	-0.088304	8.6627765	-1.29786	0.2259092	0.54068	-5.434884
ZNF146	0.1267583	8.1949613	1.2977691	0.2259392	0.54068	-5.43499
ZNF436	0.0902896	7.2996926	1.2976789	0.2259689	0.54068	-5.435095
TAF10	0.1211993	10.031707	1.2976465	0.2259796	0.54068	-5.435133
FMO2	-0.091946	7.0172668	-1.297471	0.2260374	0.54073	-5.435337
SNORD95	-0.103797	7.20878	-1.297228	0.2261177	0.54076	-5.435621
COL8A1	0.0995202	6.7791796	1.2968965	0.2262269	0.54076	-5.436006
B4GALNT1	-0.098882	7.0036346	-1.296849	0.2262426	0.54076	-5.436062
PLD4	0.1017005	7.0521628	1.2967784	0.2262658	0.54076	-5.436144
MACROD1	0.1206889	7.6193307	1.2967557	0.2262733	0.54076	-5.43617
NINL	-0.112909	6.7558281	-1.296754	0.2262737	0.54076	-5.436172
RGL4	-0.092534	6.9875304	-1.296657	0.2263061	0.54076	-5.436286
RILPL2	0.1168792	9.1199034	1.2964827	0.2263634	0.5408	-5.436488
ZCCHC17	-0.081799	9.2581646	-1.296307	0.2264213	0.54085	-5.436692
SND1-IT1	-0.223606	8.4477827	-1.295587	0.226659	0.54133	-5.43753
MIDN	0.1072492	8.9595806	1.2954142	0.2267162	0.54136	-5.437732
CNKSR1	-0.105299	7.0093626	-1.295326	0.2267454	0.54136	-5.437834
ATP6V0E2	-0.118461	10.298538	-1.294907	0.2268839	0.5416	-5.438322
OARD1	0.0956676	8.9084091	1.294753	0.2269348	0.54164	-5.438501
FAM111B	-0.078985	6.8979807	-1.294208	0.2271149	0.54198	-5.439134

LCMT2	0.1296974	8.6053219	1.2937115	0.2272794	0.54228	-5.439712
RBM10	0.0837086	8.8370279	1.293565	0.2273279	0.54231	-5.439882
ADARB2-AS	0.0796179	6.920374	1.2933921	0.2273852	0.54232	-5.440083
ANAPC15	0.1377745	8.5538619	1.2933337	0.2274046	0.54232	-5.440151
CXXC1	-0.133249	10.625799	-1.292777	0.227589	0.54259	-5.440798
MIR607	0.0766009	7.4850445	1.2927637	0.2275934	0.54259	-5.440813
CDC42EP3	0.0999806	7.103943	1.2920622	0.2278261	0.54303	-5.441628
GSTA4	-0.120881	7.1657398	-1.291867	0.227891	0.54303	-5.441856
ZFP1	-0.11461	7.3837802	-1.291842	0.227899	0.54303	-5.441884
CAP2	-0.081613	6.7929332	-1.291741	0.2279327	0.54303	-5.442001
ECT2	-0.266318	9.1087463	-1.291651	0.2279627	0.54303	-5.442106
CETN3	-0.118079	8.3528153	-1.291325	0.2280708	0.54319	-5.442485
USP20	-0.08908	6.8825394	-1.291014	0.2281741	0.54335	-5.442846
TIGIT	0.0769326	6.9446137	1.2907143	0.2282736	0.5435	-5.443193
CNOT9	0.098487	10.182192	1.2905081	0.2283421	0.54353	-5.443433
BTN2A3P	0.097075	6.8367344	1.2904546	0.2283599	0.54353	-5.443495
PRSS57	-0.092438	6.8110636	-1.290184	0.2284499	0.54365	-5.443809
SLC25A12	-0.1089	8.306855	-1.290075	0.228486	0.54365	-5.443935
RAC1	0.0919127	9.2413012	1.2899182	0.2285383	0.54369	-5.444117
DNAL4	0.0962623	8.5292962	1.2896686	0.2286213	0.54372	-5.444407
DVL2	0.1250786	8.1396654	1.2895588	0.2286579	0.54372	-5.444534
STXBP6	-0.079018	6.8000447	-1.289537	0.2286651	0.54372	-5.444559
DNALI1	0.0815547	6.8667352	1.2893876	0.2287149	0.54375	-5.444733
DLG5	0.1043084	6.9614201	1.2885333	0.2289993	0.54434	-5.445723
RAB23	0.1037133	8.3627746	1.2882996	0.2290772	0.54444	-5.445994
AMELX	0.0980395	6.7857525	1.2870337	0.2294995	0.54532	-5.447461
EHD2	0.1202011	6.9871492	1.2869572	0.229525	0.54532	-5.44755
AUP1	-0.114527	7.9583423	-1.286772	0.2295869	0.54538	-5.447765
PTER	0.0898843	8.5154266	1.2860808	0.2298177	0.54584	-5.448565
UBE2NL	-0.097882	7.1899431	-1.285876	0.2298861	0.54587	-5.448802
TPD52L1	-0.094568	6.8584739	-1.285808	0.2299089	0.54587	-5.44888
AGPAT4-IT1	0.0866858	6.9685243	1.2857031	0.229944	0.54587	-5.449002
OSTCP1	-0.10493	7.4592795	-1.285278	0.230086	0.54612	-5.449494
CNNM3	-0.095972	8.1257846	-1.285025	0.2301708	0.54618	-5.449787
ATP1A1-AS1	-0.132394	7.6076057	-1.284943	0.2301981	0.54618	-5.449881
LOC100128(	-0.128561	6.8936607	-1.284869	0.230223	0.54618	-5.449967
GOLGA8EP	-0.093031	7.0289177	-1.284174	0.2304556	0.54664	-5.450771
CDKL3	-0.124488	7.1012894	-1.28399	0.2305173	0.5467	-5.450984
TIA1	-0.100604	8.2661902	-1.283675	0.230623	0.54686	-5.451349
CD58	-0.087807	9.5805559	-1.283412	0.2307111	0.54693	-5.451653
ORMDL2	-0.087906	7.1791744	-1.283304	0.2307474	0.54693	-5.451778
DBT	0.0931118	7.66704	1.2832543	0.2307639	0.54693	-5.451835
AKAIN1	-0.087639	6.896231	-1.283136	0.2308036	0.54694	-5.451972
SIRT7	-0.089657	7.5653903	-1.28301	0.2308458	0.54695	-5.452117
RFX6	0.0844088	6.9099653	1.2828082	0.2309135	0.54702	-5.45235

AQP7P2	0.1048685	6.9860975	1.2824944	0.2310189	0.54718	-5.452713
BMS1P5	0.1363651	10.301408	1.2822748	0.2310925	0.54722	-5.452967
DRD4	0.1066785	7.3408211	1.282155	0.2311328	0.54722	-5.453105
GNB1L	-0.159315	8.097888	-1.282072	0.2311605	0.54722	-5.453201
KLK11	0.0953326	6.9067174	1.2819003	0.2312183	0.54722	-5.453399
ZNF793	0.1470133	7.1477463	1.2818896	0.2312219	0.54722	-5.453412
UBTFL2	-0.077679	6.9771306	-1.281734	0.2312742	0.54725	-5.453592
USP12	-0.131064	7.8128023	-1.281356	0.2314013	0.54746	-5.454029
PGGHG	-0.181873	7.7189355	-1.28088	0.2315611	0.54775	-5.454577
LOC647070	0.1003142	7.1624914	1.2803764	0.2317306	0.54806	-5.455159
RRP15	0.1438285	9.6472894	1.2801582	0.2318041	0.54806	-5.455411
SPINK2	-0.091246	8.2038477	-1.280155	0.2318051	0.54806	-5.455415
KIAA1586	-0.10437	7.0442791	-1.280054	0.2318392	0.54806	-5.455532
RTEL1	0.086364	7.0912266	1.2792472	0.2321108	0.54861	-5.456462
SORT1	-0.110136	7.2122417	-1.278686	0.2322999	0.54897	-5.457109
RHBDD1	-0.090925	7.5941162	-1.278427	0.2323875	0.54902	-5.457409
RUNX1T1	0.0913583	7.0551139	1.2783905	0.2323996	0.54902	-5.45745
ULK2	0.0990277	6.9375674	1.2776548	0.2326479	0.54929	-5.458298
PHF12	0.0963354	7.4062244	1.2773255	0.2327591	0.54929	-5.458678
KLHDC4	0.1312115	8.9837155	1.2772063	0.2327994	0.54929	-5.458815
PANK1	-0.077695	7.6684416	-1.27719	0.2328049	0.54929	-5.458834
ARMC10	0.0933324	9.144202	1.2771712	0.2328112	0.54929	-5.458856
CRHR1	0.1176803	7.3054001	1.2771386	0.2328222	0.54929	-5.458893
PFN1	0.1040698	13.761275	1.2770958	0.2328367	0.54929	-5.458943
GOLM1	0.0844461	6.8246271	1.2770478	0.2328529	0.54929	-5.458998
C9orf40	0.082713	8.506644	1.2770081	0.2328663	0.54929	-5.459044
SLC25A39	-0.154265	12.206586	-1.276937	0.2328903	0.54929	-5.459125
ZNF785	-0.086821	6.9087246	-1.276598	0.233005	0.54948	-5.459516
TMEM243	0.088986	10.456603	1.2763861	0.2330765	0.54956	-5.45976
TMEM159	-0.10667	7.4868127	-1.276274	0.2331144	0.54956	-5.459889
CHMP7	0.1304278	7.0925402	1.2761403	0.2331597	0.54957	-5.460043
MAF	-0.081486	6.8018532	-1.275941	0.2332271	0.5496	-5.460273
JPT2	-0.097286	8.005929	-1.275858	0.2332553	0.5496	-5.460369
NPHP1	-0.086374	7.116787	-1.275779	0.233282	0.5496	-5.46046
CHTF18	0.1187103	7.7470634	1.275437	0.2333976	0.54969	-5.460853
TIMM8A	-0.176988	8.7287078	-1.275421	0.2334029	0.54969	-5.460871
CCP110	0.2036335	9.0661535	1.2753254	0.2334354	0.54969	-5.460982
OXTR	0.0894891	7.6244578	1.2749864	0.2335502	0.54987	-5.461372
RHBDL1	-0.09894	7.1693712	-1.274858	0.2335936	0.54989	-5.461519
PLEK2	-0.123784	6.9033602	-1.274637	0.2336685	0.5499	-5.461774
VWA5A	-0.077781	6.9102228	-1.274617	0.2336755	0.5499	-5.461797
ADAMTS18	0.0830338	6.9438792	1.2744217	0.2337415	0.54997	-5.462022
DNAH12	-0.09488	6.9139286	-1.273822	0.2339448	0.55036	-5.462711
SRXN1	0.1032213	8.533361	1.273672	0.2339957	0.55039	-5.462884
POP7	-0.081301	9.1960725	-1.273361	0.2341013	0.55055	-5.463242

SH3GL2	0.0884156	6.7746272	1.273141	0.2341759	0.55062	-5.463495
KCNA6	-0.078637	6.9236486	-1.273054	0.2342054	0.55062	-5.463595
BOLL	0.082626	6.8497589	1.2727567	0.2343064	0.55077	-5.463937
FAM178B	-0.086112	6.9642744	-1.272119	0.2345228	0.55104	-5.464669
SCNM1	-0.084347	9.1599827	-1.272092	0.2345321	0.55104	-5.4647
TADA2B	0.1089652	7.7035618	1.2720159	0.234558	0.55104	-5.464788
MLLT3	0.0838921	7.0129337	1.271943	0.2345828	0.55104	-5.464872
LPCAT4	0.0853945	7.5279709	1.2718553	0.2346126	0.55104	-5.464973
PTPRT	0.0995514	7.0217033	1.2715255	0.2347248	0.55106	-5.465352
14-Sep	0.0835857	6.7651356	1.27145	0.2347505	0.55106	-5.465438
TXNDC12	0.1058909	10.787793	1.2712871	0.2348059	0.55106	-5.465625
TRAPPC6B	-0.09926	7.6273939	-1.271155	0.2348509	0.55106	-5.465777
C1orf204	0.149371	7.0272403	1.2706993	0.2350059	0.55106	-5.466301
PPP1CA	0.1850921	9.6447607	1.2706855	0.2350106	0.55106	-5.466316
SEMA3G	0.0796347	6.7900735	1.2706431	0.235025	0.55106	-5.466365
SMARCD3	-0.083869	7.2088261	-1.270622	0.2350322	0.55106	-5.466389
IKZF1	0.166553	8.9287343	1.2705778	0.2350473	0.55106	-5.46644
TOR1A	-0.118127	8.9310649	-1.270543	0.2350593	0.55106	-5.46648
OR4D6	0.1129691	6.9519354	1.2703672	0.235119	0.55106	-5.466682
SUMO3	-0.099311	11.518747	-1.270323	0.2351341	0.55106	-5.466733
SARNP	-0.079734	10.868292	-1.270295	0.2351434	0.55106	-5.466764
C1orf56	-0.107885	7.1011466	-1.270274	0.2351507	0.55106	-5.466789
TMEM135	-0.140539	8.5079112	-1.26987	0.2352882	0.5513	-5.467252
ZDHHC11	-0.101677	7.5289216	-1.269448	0.2354322	0.55155	-5.467737
TMEM200A	0.1014753	6.7955055	1.2691162	0.2355453	0.55172	-5.468118
RXFP3	-0.123253	6.8522586	-1.268658	0.2357016	0.552	-5.468643
MIF	-0.09772	13.276194	-1.267849	0.235978	0.55256	-5.469571
PDZD7	-0.09063	6.6929889	-1.267657	0.2360434	0.55262	-5.469791
TMEM256	-0.111245	11.837464	-1.267288	0.2361696	0.55283	-5.470214
SNORD113-	-0.111486	6.8451469	-1.267083	0.2362398	0.55283	-5.470449
MXRA5	0.0971185	6.892665	1.2670635	0.2362463	0.55283	-5.470471
C1orf74	-0.10876	8.4144519	-1.266948	0.2362856	0.55284	-5.470603
PCDHB3	0.0958884	6.8340504	1.2666112	0.236401	0.55302	-5.47099
LRRC8A	0.0842958	7.5048876	1.2661552	0.236557	0.55325	-5.471512
SOX15	0.0762841	6.8393118	1.2660969	0.236577	0.55325	-5.471579
ANKRD40	0.0822218	8.0106717	1.2658235	0.2366706	0.55338	-5.471892
RALB	-0.083471	7.6303803	-1.265253	0.2368661	0.5536	-5.472545
ILDR2	0.1130941	6.9839933	1.2652267	0.236875	0.5536	-5.472575
TBC1D15	0.083298	8.0759047	1.2652143	0.2368793	0.5536	-5.47259
LHFPL2	0.0906176	8.8394929	1.2649574	0.2369673	0.55371	-5.472884
NOP9	0.0817551	7.0123091	1.2648627	0.2369998	0.55371	-5.472992
TUBA3D	0.0967016	8.8778027	1.2645885	0.2370938	0.55384	-5.473306
ECHDC3	-0.082199	6.8186594	-1.263927	0.2373206	0.55428	-5.474062
WRNIP1	0.1047212	9.203043	1.2634049	0.2375	0.55456	-5.47466
MIR331	-0.122726	6.8774694	-1.263297	0.237537	0.55456	-5.474783

GPC2	-0.100999	7.8683918	-1.263243	0.2375555	0.55456	-5.474845
CACNB3	-0.089449	6.86968	-1.262676	0.2377503	0.55484	-5.475493
OR10G4	0.1242077	6.7534256	1.2625796	0.2377835	0.55484	-5.475604
ZNF333	-0.085079	7.0419525	-1.262514	0.237806	0.55484	-5.475678
CEBPD	0.0843251	6.823807	1.2624596	0.2378248	0.55484	-5.475741
HSPB3	0.0876497	6.9304479	1.2620583	0.2379628	0.55507	-5.4762
MED4	0.0871481	9.4730639	1.2618274	0.2380422	0.55513	-5.476463
IP6K3	0.0877431	7.0408808	1.2617641	0.238064	0.55513	-5.476536
PRPH	-0.108061	6.7535231	-1.261437	0.2381766	0.5552	-5.47691
SESN3	-0.088485	7.236019	-1.261369	0.2382001	0.5552	-5.476988
BATF	-0.128243	8.8773316	-1.261233	0.2382466	0.5552	-5.477142
PTPRC	0.1051	6.9436463	1.2612277	0.2382486	0.5552	-5.477149
NOL11	0.1043946	11.008847	1.2608405	0.238382	0.55539	-5.477591
FAM181B	-0.09104	6.8251334	-1.260772	0.2384055	0.55539	-5.477669
MBNL1	0.1141281	9.8665381	1.2602637	0.2385807	0.55571	-5.47825
RAB2A	0.09089	8.4701739	1.2599267	0.2386969	0.55578	-5.478634
OR5AN1	0.086922	6.7676976	1.2598738	0.2387151	0.55578	-5.478695
TFPT	0.0953232	7.7911912	1.2598364	0.238728	0.55578	-5.478737
ASMTL	0.1079495	9.2710397	1.2597363	0.2387625	0.55578	-5.478852
SLC35A5	-0.214876	8.9319295	-1.259481	0.2388508	0.55586	-5.479143
TOGARAM2	0.0763334	6.8844465	1.2594125	0.2388743	0.55586	-5.479221
ARGLU1	-0.155954	11.170871	-1.258993	0.2390189	0.55611	-5.479699
OSTCP2	0.1785147	10.754795	1.2579052	0.2393948	0.5569	-5.480941
CHFR	-0.082706	7.0736953	-1.256927	0.2397333	0.55759	-5.482056
LOC220729	0.0878825	7.2043683	1.256823	0.2397692	0.55759	-5.482174
MRPS36	-0.093599	7.5011032	-1.256523	0.2398729	0.55774	-5.482516
LTC4S	-0.098753	6.7356628	-1.256324	0.239942	0.55781	-5.482743
TSG101	-0.093954	10.4044	-1.256145	0.2400039	0.55786	-5.482947
ABHD12	0.081745	7.7142521	1.2560128	0.2400497	0.55786	-5.483097
ITFG2	0.142837	9.2238214	1.2559319	0.2400777	0.55786	-5.48319
DNASE1L3	-0.141009	7.2468343	-1.25575	0.2401408	0.55792	-5.483397
SECTM1	0.091394	6.9720752	1.2554535	0.2402435	0.55807	-5.483734
ACACA	-0.098434	10.167149	-1.254722	0.2404972	0.55854	-5.484567
CEP192	0.1032392	8.0379412	1.254555	0.2405552	0.55854	-5.484757
TMEM126A	-0.143866	10.362695	-1.254466	0.2405861	0.55854	-5.484859
GDPD4	0.0891888	7.0186219	1.2543922	0.2406117	0.55854	-5.484943
FAM120A	0.126116	11.610115	1.2543227	0.2406358	0.55854	-5.485022
SPATA31B1I	0.0752132	7.4203171	1.2540717	0.240723	0.55865	-5.485307
DTX1	0.190542	9.2728294	1.2536551	0.2408677	0.5588	-5.485781
TRIM67	0.1483031	6.9565425	1.253615	0.2408816	0.5588	-5.485827
OASL	-0.08818	6.8517224	-1.253483	0.2409274	0.5588	-5.485977
DOCK7	0.1139283	8.7550671	1.2534482	0.2409395	0.5588	-5.486017
C5orf64	0.0811436	6.8771775	1.2530497	0.2410781	0.55899	-5.48647
TM9SF3	0.1442463	8.8855546	1.252984	0.2411009	0.55899	-5.486545
C22orf34	-0.226932	7.8708748	-1.252818	0.2411585	0.55904	-5.486733

SASH1	0.0807416	6.8330019	1.2523124	0.2413345	0.55936	-5.487308
MAST3	0.1180614	8.2778536	1.2519168	0.2414722	0.55959	-5.487758
CENPI	0.0858034	7.7276007	1.2512935	0.2416893	0.55986	-5.488466
SECISBP2	-0.114116	9.5377604	-1.251282	0.2416934	0.55986	-5.48848
TAF9B	0.113634	7.9752004	1.251249	0.2417048	0.55986	-5.488517
PCBP4	0.0762467	7.1247203	1.2511052	0.2417549	0.55988	-5.48868
UPRT	-0.136963	8.3292351	-1.250968	0.2418028	0.55988	-5.488836
MBTD1	-0.084916	7.5524421	-1.25066	0.2419101	0.55988	-5.489186
CUL4B	-0.086846	7.5604021	-1.250641	0.2419168	0.55988	-5.489208
PFDN6	-0.096298	9.4567012	-1.250635	0.2419188	0.55988	-5.489214
KLHL36	-0.091481	8.6706161	-1.250566	0.2419428	0.55988	-5.489292
PPP6R3	0.1447687	9.1260223	1.2502967	0.2420368	0.55992	-5.489598
PSRC1	-0.089146	7.2022828	-1.250186	0.2420755	0.55992	-5.489724
DSCAM	-0.083845	7.0387974	-1.250179	0.2420778	0.55992	-5.489732
CWC25	-0.089879	8.6240174	-1.250049	0.2421232	0.55994	-5.48988
RTL3	0.0906869	6.8091601	1.24986	0.2421891	0.56	-5.490094
NIPA1	-0.173635	8.2959508	-1.249762	0.2422234	0.56	-5.490205
HES4	0.0881973	7.3794841	1.2496316	0.2422688	0.56001	-5.490353
RPL36AL	0.0875242	12.876804	1.2489261	0.2425152	0.56042	-5.491154
EIF2S1	-0.137979	8.773038	-1.248823	0.2425513	0.56042	-5.491271
COQ5	-0.137466	10.252678	-1.248784	0.2425649	0.56042	-5.491315
UBOX5	-0.079797	6.9893887	-1.248691	0.2425975	0.56042	-5.491421
NDUFA9	-0.086761	11.347717	-1.24778	0.2429158	0.56093	-5.492454
RHBDF1	-0.088901	6.7993187	-1.247759	0.2429234	0.56093	-5.492478
CTDNEP1	0.149347	8.6093156	1.2477293	0.2429337	0.56093	-5.492511
EIF2B4	-0.085705	10.44185	-1.247364	0.2430614	0.56113	-5.492925
MMP14	-0.077827	6.8580329	-1.247138	0.2431406	0.56123	-5.493182
CAMLG	-0.118705	11.562619	-1.246716	0.2432885	0.56142	-5.49366
PTGES	-0.101505	6.8309259	-1.246678	0.2433018	0.56142	-5.493704
HRAS	-0.152617	9.0991251	-1.246461	0.2433777	0.56143	-5.493949
PSCA	0.0893917	6.89415	1.2464	0.2433991	0.56143	-5.494018
HOXB4	-0.104225	7.5169364	-1.246344	0.2434189	0.56143	-5.494082
SORCS1	-0.084412	6.886373	-1.24597	0.2435497	0.56163	-5.494505
C20orf24	0.0828107	12.054464	1.2458724	0.243584	0.56163	-5.494616
ZBTB11-AS1	-0.107461	7.5566967	-1.245405	0.243748	0.56192	-5.495145
SAFB	-0.212802	9.7335444	-1.244931	0.2439142	0.56221	-5.495681
PSEN2	-0.082377	7.1469048	-1.244818	0.243954	0.56222	-5.49581
NDST1	0.1034705	7.4367715	1.2445669	0.2440421	0.56227	-5.496094
CLDN18	0.102424	6.7931759	1.2445298	0.2440552	0.56227	-5.496136
EIF3H	0.0828983	11.480327	1.2443849	0.2441061	0.56228	-5.4963
SGK494	-0.119224	7.8962145	-1.244302	0.2441351	0.56228	-5.496393
DERL3	-0.090044	7.0527495	-1.243912	0.2442722	0.5624	-5.496835
PRR34	0.1032362	6.8980281	1.243779	0.2443189	0.5624	-5.496985
UBE2Q2	-0.122186	8.989526	-1.243769	0.2443224	0.5624	-5.496997
CDS2	-0.109736	8.8577175	-1.243712	0.2443426	0.5624	-5.497061

STX17	-0.108473	7.2191987	-1.243305	0.2444858	0.56262	-5.497522
THAP11	0.1182637	10.70782	1.2432235	0.2445143	0.56262	-5.497614
IMPDH2	0.1583679	12.62288	1.2428585	0.2446427	0.56282	-5.498027
HOOK2	0.1044341	7.9600053	1.2426458	0.2447176	0.56286	-5.498267
EFL1	0.0755274	7.8777778	1.2425995	0.2447339	0.56286	-5.498319
NHLRC2	-0.106637	7.6975474	-1.242133	0.244898	0.56305	-5.498846
SAR1B	-0.081235	8.4710217	-1.242087	0.2449144	0.56305	-5.498899
LSR	0.0849307	7.0482262	1.2418579	0.244995	0.56305	-5.499158
SLC35G6	0.1154851	7.1927573	1.2418262	0.2450062	0.56305	-5.499194
HBBP1	-0.118005	7.2070243	-1.24181	0.2450119	0.56305	-5.499212
NRDC	0.1550818	10.496103	1.241278	0.2451994	0.56336	-5.499813
MAGEE1	0.076487	6.8820758	1.2412071	0.2452244	0.56336	-5.499893
BICRAL	0.0821119	8.3939957	1.240688	0.2454074	0.5637	-5.500479
HDAC10	-0.114426	6.8648939	-1.240256	0.2455598	0.56396	-5.500967
MLX	-0.08413	7.5751676	-1.239983	0.2456563	0.56409	-5.501276
LHX6	-0.094829	6.880909	-1.238973	0.2460132	0.56482	-5.502416
ISYNA1	-0.118393	7.049036	-1.238245	0.2462704	0.56507	-5.503236
GM2A	0.0844161	7.5504893	1.2380627	0.246335	0.56507	-5.503442
PIAS4	0.1715821	9.6440109	1.2380538	0.2463382	0.56507	-5.503452
GTSF1	0.0949531	6.8573315	1.2379998	0.2463573	0.56507	-5.503513
R3HDM1	0.0943331	8.1663102	1.2379835	0.2463631	0.56507	-5.503531
PRKCH	-0.128937	7.155945	-1.237827	0.2464183	0.56507	-5.503707
ZNF552	0.0844654	6.8917507	1.2378159	0.2464224	0.56507	-5.50372
TNFRSF19	0.1009595	6.9870536	1.2377839	0.2464337	0.56507	-5.503757
PARVB	0.1294296	7.9378377	1.2376215	0.2464912	0.56512	-5.50394
SLC39A9	-0.104498	7.6706317	-1.237492	0.2465372	0.56513	-5.504086
VWA7	-0.083135	6.8661073	-1.237299	0.2466056	0.5652	-5.504304
TRNT1	-0.096985	7.6458856	-1.237151	0.2466578	0.5652	-5.50447
DAZ2	-0.078092	7.0740751	-1.236966	0.2467234	0.5652	-5.504679
ZNF385C	-0.082175	7.0618982	-1.236965	0.2467236	0.5652	-5.504679
ELMO3	0.1099789	7.5505447	1.2368122	0.2467779	0.5652	-5.504852
FAM207A	-0.079033	7.7104619	-1.236704	0.2468161	0.5652	-5.504973
HLA-DPB2	0.1176226	6.9781692	1.2365185	0.246882	0.5652	-5.505183
KCNG2	-0.121177	7.3553719	-1.236438	0.2469106	0.5652	-5.505274
GTF2E1	0.0797358	8.6649178	1.2364254	0.246915	0.5652	-5.505288
TMCO3	0.1110131	8.1336496	1.2361911	0.2469981	0.5653	-5.505552
FAM110B	-0.101731	6.6674993	-1.236085	0.2470358	0.5653	-5.505671
ABL2	0.0980361	6.8849232	1.2354604	0.2472574	0.56572	-5.506375
MYEF2	0.1233351	7.0895531	1.2351246	0.2473766	0.56583	-5.506753
LOC1001282	0.0768698	7.0421803	1.2349489	0.247439	0.56583	-5.50695
CTBP1	0.1281981	8.2790021	1.2349422	0.2474414	0.56583	-5.506958
ALKBH7	0.1770027	9.3988793	1.2347818	0.2474983	0.56583	-5.507138
CMBL	0.0911802	6.8679749	1.2347033	0.2475262	0.56583	-5.507227
MMP15	0.0786941	6.799362	1.2346275	0.2475532	0.56583	-5.507312
FBXO7	0.0795023	8.2819767	1.2342613	0.2476833	0.56583	-5.507724

STX1A	-0.133926	7.2225701	-1.234148	0.2477236	0.56583	-5.507852
SMG9	0.0858488	7.976007	1.2341282	0.2477306	0.56583	-5.507874
KLHL23	0.1079545	7.5212078	1.2340616	0.2477543	0.56583	-5.507949
OSBPL11	-0.161864	7.7750615	-1.233985	0.2477816	0.56583	-5.508035
SLC16A1	-0.10371	7.043455	-1.233963	0.2477893	0.56583	-5.50806
KLK1	0.089699	7.2390362	1.2337781	0.2478551	0.56583	-5.508268
NIP7	-0.120179	11.033761	-1.233718	0.2478765	0.56583	-5.508335
CAPNS1	0.1333641	9.4395724	1.2336815	0.2478895	0.56583	-5.508377
DUSP6	0.0799574	6.8640425	1.2332458	0.2480445	0.5661	-5.508867
ALDH3A2	-0.076443	8.0682963	-1.23165	0.2486129	0.56731	-5.51066
C5orf49	-0.088423	6.8946544	-1.231405	0.2487002	0.56742	-5.510935
ATP8A2	-0.08652	6.9068607	-1.230852	0.2488975	0.56772	-5.511556
TMEM71	-0.081861	6.7746746	-1.230819	0.2489093	0.56772	-5.511594
DUSP19	-0.14272	9.9614591	-1.230316	0.2490888	0.56799	-5.512158
ST3GAL2	-0.131197	8.0402361	-1.230273	0.2491042	0.56799	-5.512207
CDK2AP2	0.1080423	8.6144925	1.229811	0.2492693	0.56827	-5.512726
TOR3A	0.1217176	9.3774842	1.2294934	0.2493829	0.56844	-5.513082
LOC646836	-0.085783	7.9187103	-1.229326	0.2494426	0.56849	-5.51327
EXOSC1	-0.097606	10.985967	-1.228766	0.2496431	0.5688	-5.513898
TMEM14A	-0.089915	9.7039735	-1.228732	0.2496553	0.5688	-5.513937
PLG	-0.11594	6.9875477	-1.228477	0.2497466	0.56881	-5.514223
LNP1	0.1087741	7.0278705	1.22839	0.2497775	0.56881	-5.51432
TFPI	-0.076539	6.8184227	-1.228311	0.2498058	0.56881	-5.514408
CATSPERG	0.08446	6.759657	1.2282783	0.2498175	0.56881	-5.514445
WDR24	0.093382	7.365065	1.2269552	0.2502915	0.56968	-5.515928
TMEM229A	-0.09119	6.8047726	-1.226761	0.2503611	0.56968	-5.516146
FRMD7	0.1123185	6.9273909	1.2267034	0.2503818	0.56968	-5.51621
NEIL1	0.0917825	6.9597326	1.2266297	0.2504082	0.56968	-5.516293
NOTCH1	-0.114244	8.1456473	-1.226555	0.250435	0.56968	-5.516377
KHDC3L	0.0857298	7.023958	1.2265507	0.2504366	0.56968	-5.516382
HM13	0.1375061	7.5391762	1.2264545	0.2504711	0.56968	-5.516489
ADGRG4	0.0968795	6.9537044	1.2262628	0.2505399	0.56975	-5.516704
SPNS3	-0.082508	6.8735409	-1.226094	0.2506003	0.56979	-5.516893
FHL1	-0.098889	6.8222788	-1.225685	0.2507473	0.57004	-5.517351
ZMYM5	-0.081073	7.4757046	-1.225435	0.2508369	0.57015	-5.51763
GAA	-0.085034	6.9437531	-1.225243	0.250906	0.57022	-5.517846
ZBTB21	0.1190693	7.3391682	1.2248299	0.2510544	0.57041	-5.518308
CHST4	-0.10179	7.5880516	-1.224615	0.2511315	0.57041	-5.518548
DIEXF	0.074442	7.3360188	1.2243668	0.2512209	0.57041	-5.518827
P3H3	-0.087719	6.8923421	-1.224274	0.2512545	0.57041	-5.518931
GTPBP1	0.0878708	6.8381184	1.2241636	0.251294	0.57041	-5.519054
POLR2M	0.077999	7.2670173	1.2240429	0.2513374	0.57041	-5.519189
ZNF784	-0.081847	7.6663	-1.224	0.2513528	0.57041	-5.519237
LRRK1	-0.116165	8.1195038	-1.223983	0.2513589	0.57041	-5.519256
BEX1	0.074182	6.8628317	1.2239321	0.2513773	0.57041	-5.519313

BBC3	0.0874444	7.660192	1.2239304	0.2513779	0.57041	-5.519315
OR1J2	0.114068	6.887845	1.2237072	0.2514582	0.57042	-5.519564
POLR2J3	-0.078506	8.8686089	-1.223694	0.251463	0.57042	-5.519579
MDH2	-0.081437	13.834389	-1.223556	0.2515127	0.57045	-5.519734
SLC43A3	0.1145114	8.1755565	1.223194	0.251643	0.57065	-5.520138
KCNRG	-0.08019	6.9172508	-1.222826	0.2517755	0.57087	-5.52055
ICE2	-0.098186	7.6372695	-1.222423	0.2519208	0.57111	-5.521001
PTPN23	0.1134617	7.1363189	1.2221312	0.2520259	0.57122	-5.521326
MINDY4	0.1050158	7.0518952	1.2219107	0.2521054	0.57122	-5.521573
BRI3	0.1189482	8.9123143	1.2217932	0.2521478	0.57122	-5.521704
PDRG1	-0.080268	9.4588844	-1.221767	0.2521571	0.57122	-5.521733
ARMCX2	-0.101509	6.8004531	-1.221721	0.2521738	0.57122	-5.521785
LOC1002882	0.099047	6.9508825	1.2216311	0.2522063	0.57122	-5.521885
TIMM17A	-0.10042	7.590101	-1.221516	0.2522476	0.57123	-5.522013
SLC45A3	0.1449953	8.5788733	1.2209906	0.2524374	0.57142	-5.5226
RNPC3	-0.12053	7.6252774	-1.220977	0.2524423	0.57142	-5.522615
CBFA2T3	-0.073897	6.8930356	-1.220929	0.2524596	0.57142	-5.522669
C10orf11	-0.076576	6.7364847	-1.220829	0.2524956	0.57142	-5.52278
CEP83	-0.116927	7.8246196	-1.220581	0.2525855	0.57142	-5.523058
MIB1	0.1029528	7.3181066	1.2205035	0.2526133	0.57142	-5.523144
SLC26A6	-0.086028	7.9679936	-1.220481	0.2526214	0.57142	-5.523169
TAB2	0.0738798	7.0324236	1.2204171	0.2526445	0.57142	-5.523241
ABCA8	-0.097568	6.9253123	-1.220173	0.2527327	0.57153	-5.523513
MAFB	0.094172	6.8658571	1.2197628	0.252881	0.57172	-5.523971
NFE2L3	-0.082713	9.3397687	-1.21964	0.2529253	0.57172	-5.524108
TIGD2	-0.084758	7.243803	-1.219609	0.2529365	0.57172	-5.524142
TCTA	0.0898341	7.7513455	1.2195031	0.2529749	0.57172	-5.524261
SHMT1	-0.087507	8.2292233	-1.219234	0.2530724	0.57184	-5.524561
OTP	-0.075051	7.2058372	-1.219138	0.2531068	0.57184	-5.524668
OR13C5	0.0758669	6.8012848	1.218699	0.2532658	0.57211	-5.525158
RPL27	0.0752036	14.381126	1.2183467	0.2533934	0.57231	-5.525551
XRCC3	0.1334297	8.3995216	1.2179114	0.2535511	0.57251	-5.526036
FBXL19-AS1	0.0918288	7.4984034	1.217778	0.2535994	0.57251	-5.526184
EVI5L	-0.112933	8.3724263	-1.217774	0.2536008	0.57251	-5.526189
KIAA0895	0.1014644	7.0786895	1.2174689	0.2537115	0.57268	-5.526529
RBM39	0.0971191	7.7579757	1.2173412	0.2537577	0.57269	-5.526671
SCAMP1	0.0940924	8.5739482	1.217195	0.2538108	0.57272	-5.526834
CHD6	0.1048528	7.5968396	1.2169753	0.2538904	0.57274	-5.527079
NCOR1P1	0.1220989	7.9663017	1.2168932	0.2539202	0.57274	-5.52717
BEND4	0.0925507	7.5185079	1.2168444	0.2539379	0.57274	-5.527225
PMCHL2	0.1057312	6.7900519	1.2162294	0.2541611	0.57311	-5.52791
COL9A2	0.136995	7.1643141	1.2161781	0.2541797	0.57311	-5.527967
YME1L1	0.081433	7.6737585	1.2158998	0.2542808	0.57314	-5.528277
NOTCH2	-0.08282	7.1479718	-1.215858	0.254296	0.57314	-5.528323
STIM2	0.0869816	7.7664373	1.2157533	0.254334	0.57314	-5.52844

F2	0.0986212	7.0138926	1.2157127	0.2543487	0.57314	-5.528485
SEZ6L2	0.0774127	6.8806036	1.2153691	0.2544736	0.57327	-5.528868
ZNF92	-0.077907	6.9224943	-1.215317	0.2544924	0.57327	-5.528925
STAM2	-0.121486	7.7727581	-1.215193	0.2545375	0.57327	-5.529063
PLXNA3	-0.075842	6.8822173	-1.214901	0.2546436	0.57327	-5.529388
IL10RA	0.0979983	7.7952411	1.214707	0.2547142	0.57327	-5.529604
LOC1001285	0.1391268	6.7727738	1.2145582	0.2547684	0.57327	-5.52977
CSAG3	0.1442979	7.062768	1.2144276	0.2548159	0.57327	-5.529915
PIANP	-0.094421	6.9598809	-1.214421	0.2548183	0.57327	-5.529922
CDK12	0.0955939	8.4092313	1.2143826	0.2548323	0.57327	-5.529965
DAZAP2	-0.102697	11.799985	-1.214327	0.2548525	0.57327	-5.530027
DDIT3	-0.165024	8.2732255	-1.214294	0.2548644	0.57327	-5.530063
ANO7	0.0872528	6.8396868	1.2139861	0.2549766	0.57327	-5.530406
CPT2	0.1077746	9.1872694	1.2138799	0.2550152	0.57327	-5.530524
DDX42	0.0970662	8.3629871	1.2138222	0.2550362	0.57327	-5.530588
SMAD1	-0.087896	6.8339992	-1.213657	0.2550964	0.57327	-5.530772
TPMT	0.0993301	9.4493218	1.213595	0.2551189	0.57327	-5.530841
PPA1	-0.090593	13.363929	-1.213586	0.2551221	0.57327	-5.530851
ZIC2	0.0850372	6.880704	1.2135338	0.2551412	0.57327	-5.530909
TXNIP	-0.1259	9.4454518	-1.213504	0.2551522	0.57327	-5.530943
BAHD1	0.1242032	7.3754668	1.2133448	0.25521	0.57331	-5.531119
LTBP4	0.082843	7.2782069	1.212909	0.2553688	0.57358	-5.531604
ZNF215	-0.116983	7.6393834	-1.212744	0.2554289	0.57362	-5.531787
MYCL	0.0766433	6.8874597	1.2125257	0.2555085	0.57371	-5.53203
SPACA9	-0.079875	7.9329836	-1.212237	0.255614	0.57386	-5.532351
PATE2	-0.073638	7.059007	-1.212122	0.2556558	0.57387	-5.532478
UTP3	-0.155594	8.9822274	-1.212006	0.2556979	0.57388	-5.532607
SMAD9	-0.12485	7.459641	-1.211639	0.2558321	0.57397	-5.533015
FBXL19	-0.147783	6.9246866	-1.211619	0.2558392	0.57397	-5.533037
PRDX6	-0.119105	11.733248	-1.211567	0.2558583	0.57397	-5.533095
CISD1	0.0869399	12.002325	1.2113916	0.2559223	0.57403	-5.533289
MT1IP	-0.089737	7.180921	-1.211128	0.2560185	0.57409	-5.533582
GRB14	0.0783274	6.9794037	1.2110984	0.2560294	0.57409	-5.533615
SV2B	0.0954334	6.9051608	1.2104834	0.256254	0.57429	-5.534298
ZRSR2	-0.10431	7.7519288	-1.210482	0.2562544	0.57429	-5.534299
XIAP	-0.091043	7.0226836	-1.21043	0.2562737	0.57429	-5.534357
LIN7C	-0.101567	7.3479592	-1.21033	0.2563101	0.57429	-5.534468
MCM6	0.0834386	11.934836	1.2103165	0.2563151	0.57429	-5.534483
ZBP1	-0.075398	6.9048434	-1.20958	0.2565843	0.57476	-5.5353
TGDS	-0.17435	8.7987546	-1.20947	0.2566246	0.57476	-5.535422
TRMT1	-0.080576	9.7821831	-1.209334	0.2566744	0.57476	-5.535573
CACNG1	-0.096353	6.9970187	-1.209219	0.2567163	0.57476	-5.5357
UBQLN4	0.0876512	10.457929	1.2092071	0.2567208	0.57476	-5.535714
TOB2	0.112791	7.6493987	1.2089468	0.2568161	0.57488	-5.536002
VRK2	-0.098207	7.6426205	-1.208768	0.2568814	0.57494	-5.5362

DUX4L1	0.0993073	7.017425	1.2086356	0.2569301	0.57496	-5.536347
KDM5C	0.1071658	6.9038319	1.207481	0.2573532	0.5757	-5.537627
CUTC	-0.117668	9.885161	-1.207452	0.2573639	0.5757	-5.537659
NME7	-0.12491	7.8157172	-1.207411	0.257379	0.5757	-5.537705
CCDC25	-0.088583	8.5979385	-1.207071	0.2575037	0.57589	-5.538081
IARS	-0.088253	9.1737111	-1.206874	0.2575758	0.57596	-5.538299
CMTM6	0.0983869	9.489044	1.2067154	0.2576341	0.57601	-5.538475
CACHD1	-0.074876	6.7896839	-1.206362	0.2577637	0.57621	-5.538866
OR2AE1	-0.089436	6.6951823	-1.206081	0.2578669	0.57635	-5.539177
WRAP73	0.127536	10.035542	1.205805	0.2579684	0.57637	-5.539483
CABP1	-0.083684	6.8422044	-1.20562	0.2580366	0.57637	-5.539688
KDM5D	0.1183354	8.0904002	1.2055931	0.2580463	0.57637	-5.539717
SNORD101	-0.135992	7.0034951	-1.205564	0.258057	0.57637	-5.539749
THUMPD1	0.1087356	8.2322541	1.2054911	0.2580838	0.57637	-5.53983
ICAM1	0.0990305	8.2672421	1.2054156	0.2581116	0.57637	-5.539914
VPS54	0.0918288	7.3389893	1.2052403	0.258176	0.5764	-5.540108
MIR1204	-0.125389	7.3824261	-1.205159	0.2582059	0.5764	-5.540198
RPP40	-0.104988	11.350975	-1.204673	0.2583847	0.57665	-5.540735
SPI1	0.1442503	8.5950777	1.2046424	0.2583959	0.57665	-5.540769
PTK6	-0.090767	6.8828344	-1.204431	0.2584736	0.57673	-5.541003
PDE4B	-0.078081	7.9306091	-1.204122	0.2585875	0.57682	-5.541345
UCKL1	0.148606	9.9635818	1.2041073	0.2585929	0.57682	-5.541361
SOX18	0.088342	6.8420828	1.2034494	0.2588352	0.57728	-5.542088
PPHLN1	-0.077471	8.5870839	-1.20313	0.258953	0.57745	-5.542441
ITCH	-0.135487	8.0503183	-1.202769	0.2590859	0.57766	-5.54284
DGKD	0.1086747	7.685568	1.2025572	0.259164	0.57775	-5.543074
ARRDC1	0.0916581	6.8677694	1.2022918	0.2592619	0.57788	-5.543367
TRAIP	-0.101721	7.260302	-1.201983	0.2593758	0.57804	-5.543708
SPIN3	-0.08942	6.9385389	-1.201638	0.2595033	0.57824	-5.544089
GHRHR	0.1233077	6.9256987	1.2014722	0.2595645	0.57828	-5.544272
KRIT1	0.079031	7.4766471	1.2005433	0.2599077	0.57895	-5.545297
SEMA4D	0.1206378	9.2581371	1.2003844	0.2599664	0.57895	-5.545472
ABCB6	-0.123877	7.3309815	-1.200199	0.260035	0.57895	-5.545677
CRCP	-0.071904	7.9760802	-1.200097	0.2600727	0.57895	-5.545789
PCDHA4	-0.090431	6.8595804	-1.200079	0.2600795	0.57895	-5.54581
ANKRD55	-0.077885	6.7359055	-1.20002	0.2601011	0.57895	-5.545874
RAP2B	-0.07467	6.9045487	-1.19982	0.2601751	0.57903	-5.546095
HCCS	-0.083915	7.9755683	-1.199501	0.260293	0.57919	-5.546446
CATSPERE	-0.087599	6.8572499	-1.199409	0.2603272	0.57919	-5.546548
ZNF205	0.0761441	6.8726538	1.1986426	0.2606111	0.57973	-5.547393
WDR75	-0.1319	11.024416	-1.198531	0.2606524	0.57974	-5.547516
PGD	0.1883099	11.614126	1.1984095	0.2606975	0.57975	-5.54765
LRRFIP2	0.0859771	8.8490145	1.1982445	0.2607586	0.57979	-5.547832
NAA10	-0.096684	10.126398	-1.198116	0.2608064	0.57981	-5.547974
IMP4	-0.155163	12.129012	-1.197881	0.2608932	0.57986	-5.548232

SP6	-0.110481	7.0011447	-1.197638	0.2609836	0.57986	-5.5485
GBA2	0.0916145	7.966571	1.1974852	0.2610402	0.57986	-5.548668
PPFIA4	0.0977918	6.8710474	1.1973886	0.261076	0.57986	-5.548774
IPW	-0.103987	6.8557429	-1.197346	0.2610918	0.57986	-5.548821
ELL	-0.075294	8.5444396	-1.197046	0.2612032	0.57986	-5.549152
POMGNT2	0.1315753	7.171528	1.1970384	0.261206	0.57986	-5.54916
NNAT	0.0937882	6.9876811	1.1970362	0.2612068	0.57986	-5.549162
ATP1B3	0.1184557	9.4675706	1.1967955	0.2612961	0.57986	-5.549427
CIDEB	0.0810337	6.7573355	1.1967773	0.2613029	0.57986	-5.549447
COX5A	0.1341187	13.253955	1.1967769	0.261303	0.57986	-5.549448
ZNF792	-0.10756	7.2591975	-1.196769	0.261306	0.57986	-5.549457
BTRC	-0.084361	7.1964379	-1.196629	0.2613578	0.57986	-5.54961
EWSR1	0.0964869	10.223598	1.1965609	0.2613832	0.57986	-5.549686
IRAK1	0.1724006	10.883876	1.196211	0.2615132	0.58006	-5.550071
DKC1	0.1047579	11.893483	1.1959581	0.2616072	0.58009	-5.550349
ITPKA	0.0776376	6.8443741	1.1958087	0.2616627	0.58009	-5.550513
PSIP1	0.1328637	8.2059017	1.1956787	0.261711	0.58009	-5.550656
SIVA1	0.0810011	10.275827	1.1956488	0.2617221	0.58009	-5.550689
ZFYVE19	0.1091954	8.4256086	1.1956439	0.261724	0.58009	-5.550695
SFTPD	0.0923583	6.7469185	1.1950839	0.2619322	0.58044	-5.551311
MISP	0.0977211	7.2891607	1.1950014	0.2619629	0.58044	-5.551401
CXCR3	-0.113991	7.0224905	-1.194822	0.2620298	0.5805	-5.551599
ZNF679	-0.073389	7.6962085	-1.19464	0.2620974	0.58052	-5.551799
PSMG3-AS1	0.0853805	7.0341192	1.1945813	0.2621192	0.58052	-5.551863
C1orf61	-0.08103	7.8921791	-1.194436	0.2621735	0.58053	-5.552023
1-Dec	0.0859344	6.8439717	1.1943509	0.262205	0.58053	-5.552117
AKAP2	0.0741057	6.9723727	1.1941157	0.2622926	0.58064	-5.552375
IPCEF1	0.1155791	7.1076325	1.1934776	0.2625303	0.58108	-5.553076
IL17A	0.0842928	6.8963173	1.193174	0.2626435	0.58124	-5.55341
INTS4	-0.073183	7.9187951	-1.192807	0.2627804	0.5813	-5.553813
GUSBP1	-0.0848	6.9623532	-1.192795	0.2627847	0.5813	-5.553826
PGAP1	-0.123714	7.1679345	-1.192787	0.2627877	0.5813	-5.553835
YPEL5	-0.083334	8.8315445	-1.19222	0.2629994	0.58147	-5.554457
C5orf24	0.0846974	7.7246927	1.1919384	0.2631044	0.58147	-5.554766
RABGGTA	0.0995924	7.2951472	1.191875	0.2631281	0.58147	-5.554836
SNX31	-0.070357	6.8637218	-1.191619	0.2632236	0.58147	-5.555117
NCDN	0.0939958	7.4883076	1.191539	0.2632536	0.58147	-5.555205
HEATR5B	0.0867829	8.5922002	1.1913526	0.2633232	0.58147	-5.555409
ZNF252P	-0.108722	9.435335	-1.191333	0.2633306	0.58147	-5.555431
GRN	0.107995	9.9306194	1.1913012	0.2633424	0.58147	-5.555466
VPS16	-0.089693	8.2251459	-1.191178	0.2633885	0.58147	-5.555601
TRMT61B	-0.097753	8.5546396	-1.191174	0.2633898	0.58147	-5.555605
TANC2	-0.076992	6.7937248	-1.191123	0.2634092	0.58147	-5.555662
PLOD1	-0.116202	10.837303	-1.191089	0.2634216	0.58147	-5.555698
RAB7B	-0.091609	6.7138895	-1.190878	0.2635005	0.58147	-5.55593

METAP1D	-0.07815	6.9939468	-1.190839	0.2635151	0.58147	-5.555973
PLCXD1	0.1671124	9.0952535	1.1907232	0.2635584	0.58147	-5.5561
FKBP14	-0.151971	8.8779727	-1.190715	0.2635614	0.58147	-5.556108
XRCC6	0.0784297	11.224059	1.1905929	0.2636072	0.58147	-5.556243
AGRN	0.0868678	7.500375	1.1905178	0.2636352	0.58147	-5.556325
LDB3	-0.103959	6.9102005	-1.190465	0.263655	0.58147	-5.556383
COL5A1	-0.101502	7.0574596	-1.190439	0.2636648	0.58147	-5.556412
KLHL35	-0.104063	6.9835422	-1.190334	0.2637039	0.58147	-5.556526
MIR490	-0.088124	6.8466607	-1.190054	0.2638086	0.58161	-5.556833
PJA1	0.0746328	7.4620575	1.1899434	0.2638501	0.58162	-5.556955
RPAIN	-0.085623	10.412409	-1.189816	0.263898	0.58164	-5.557095
EFCAB7	-0.078073	7.1662323	-1.189298	0.2640917	0.58189	-5.557662
KDELR1	0.1311254	10.337503	1.1892468	0.2641109	0.58189	-5.557718
CXCL5	-0.120188	6.8819611	-1.189149	0.2641475	0.58189	-5.557826
SEL1L2	0.1039539	6.7939582	1.1889826	0.2642098	0.58189	-5.558008
SH3BGR	0.0823344	7.1263803	1.1888816	0.2642477	0.58189	-5.558118
SLC22A1	0.1254621	7.1619033	1.1888733	0.2642508	0.58189	-5.558128
SLC7A5	0.0860472	11.856305	1.1885113	0.2643864	0.5821	-5.558524
RNF215	0.0829095	7.1406327	1.1882522	0.2644836	0.58222	-5.558808
SEBOX	0.0965671	6.8442353	1.187669	0.2647023	0.58262	-5.559446
TRIM4	-0.08221	8.417781	-1.187125	0.2649064	0.58291	-5.560042
MXRA7	0.0903795	6.9272663	1.1870981	0.2649165	0.58291	-5.560071
CYLD	0.0866279	7.393682	1.1867667	0.265041	0.58299	-5.560434
SLC25A16	0.098717	7.5748785	1.1867324	0.2650539	0.58299	-5.560472
ENPP5	-0.086697	7.0133976	-1.186684	0.2650721	0.58299	-5.560525
TBL3	0.1154517	7.6708648	1.1864995	0.2651414	0.58303	-5.560726
METTL8	-0.095425	6.9026008	-1.18642	0.2651711	0.58303	-5.560813
A4GNT	0.1477702	6.9602909	1.1862454	0.2652368	0.58309	-5.561004
IER3	0.089289	7.7257569	1.1857565	0.2654206	0.58341	-5.561539
ZFP92	-0.08767	6.9464203	-1.185634	0.2654665	0.58342	-5.561672
APH1A	-0.091344	9.171088	-1.185364	0.265568	0.58355	-5.561968
PDE8A	-0.084737	7.0642432	-1.185066	0.2656802	0.58365	-5.562294
ABR	-0.078661	7.9284969	-1.184963	0.2657191	0.58365	-5.562407
CC2D1A	0.0904973	7.231088	1.1848485	0.2657622	0.58365	-5.562532
NEDD4L	0.0821322	7.413633	1.1847517	0.2657986	0.58365	-5.562637
LOC1009962	0.1111844	6.9478928	1.1847132	0.2658131	0.58365	-5.562679
PGM2L1	0.095842	6.8606258	1.184374	0.2659408	0.58385	-5.56305
TBRG1	-0.099929	6.9810641	-1.184208	0.2660033	0.58389	-5.563231
PLEKHH1	-0.07393	6.7711259	-1.184043	0.2660656	0.58394	-5.563412
AGAP4	-0.09238	7.0437976	-1.183946	0.266102	0.58394	-5.563517
USP33	-0.085079	7.6246273	-1.183763	0.2661709	0.584	-5.563717
GJA5	-0.093672	7.0111645	-1.183087	0.2664258	0.58438	-5.564455
LINC00908	-0.078291	6.8791739	-1.183041	0.2664431	0.58438	-5.564506
CDC42SE2	-0.153694	8.775551	-1.182988	0.2664631	0.58438	-5.564564
MICAL2	0.073201	6.7628409	1.1827574	0.2665502	0.58448	-5.564815

CUL4A	-0.097615	10.077251	-1.182424	0.266676	0.58467	-5.565179
TLDC1	-0.07939	6.8765952	-1.182226	0.2667506	0.5847	-5.565395
CLDND1	-0.073721	9.8647101	-1.182173	0.2667705	0.5847	-5.565453
NFIB	0.1038479	6.9657329	1.181582	0.2669939	0.5851	-5.566098
EPX	0.0853331	6.951146	1.1813813	0.2670697	0.58518	-5.566317
PRPS1	0.0824693	10.542427	1.1810209	0.2672059	0.58539	-5.56671
MRPL37	-0.137083	11.991013	-1.180618	0.2673581	0.58559	-5.567149
SLX4IP	-0.119535	7.4236742	-1.180482	0.2674097	0.58559	-5.567297
PRIM1	0.0768141	9.2601848	1.1804538	0.2674204	0.58559	-5.567328
ZFAND6	-0.101839	8.6010315	-1.180332	0.2674665	0.58559	-5.567461
CAST	-0.092398	7.549136	-1.180255	0.2674957	0.58559	-5.567545
CENPT	0.1488118	8.2352543	1.1799669	0.2676046	0.58574	-5.567859
NLRP7	-0.089853	7.2224536	-1.179603	0.2677425	0.58595	-5.568255
ATF7IP	-0.077035	6.9313123	-1.179391	0.2678226	0.58603	-5.568486
ZNF581	0.1858313	10.719879	1.1792922	0.2678601	0.58603	-5.568594
APLN	0.0770852	6.9265131	1.1790499	0.2679519	0.58606	-5.568857
BPNT1	0.1030042	8.7863319	1.1790492	0.2679521	0.58606	-5.568858
EXO1	0.0868236	7.8038511	1.1788685	0.2680206	0.58612	-5.569055
PDE1C	0.073705	6.7818298	1.1786632	0.2680984	0.58612	-5.569279
OR4S1	0.1107168	6.9798936	1.1786556	0.2681013	0.58612	-5.569287
LDB2	0.0989515	6.9712674	1.1784684	0.2681723	0.58619	-5.569491
ATP6V1H	0.0896734	8.5115513	1.1782316	0.268262	0.5863	-5.569748
ZSCAN22	0.0930146	6.8919527	1.1779245	0.2683785	0.58641	-5.570083
MIR383	0.0867725	6.9068014	1.1778825	0.2683944	0.58641	-5.570128
CCDC138	-0.11095	8.6095492	-1.177629	0.2684907	0.58653	-5.570404
DNAJC14	0.0845502	8.3690549	1.1774291	0.2685665	0.58656	-5.570622
MORF4L2	0.1156832	11.069447	1.1773791	0.2685855	0.58656	-5.570676
C22orf39	0.0741226	7.7413129	1.1770849	0.2686972	0.58668	-5.570996
FSTL4	0.1051459	7.1661652	1.1769449	0.2687503	0.58668	-5.571148
PPP1R2	0.1019677	9.8016359	1.176923	0.2687587	0.58668	-5.571172
LYST	-0.082263	6.878348	-1.176634	0.2688684	0.58677	-5.571486
MAPK12	0.1201468	8.5237264	1.1765995	0.2688815	0.58677	-5.571524
SNORD46	-0.100797	7.4905901	-1.176291	0.2689988	0.58694	-5.57186
NKAPP1	-0.085152	6.9180603	-1.176083	0.2690778	0.58702	-5.572085
PGF	-0.104671	6.8563644	-1.175661	0.2692384	0.58729	-5.572545
PUS10	0.0896068	7.7541499	1.1754187	0.2693304	0.5874	-5.572807
A1BG	0.0979419	7.1535901	1.1751002	0.2694517	0.58758	-5.573153
PTPRCAP	0.1140083	9.9843411	1.174975	0.2694993	0.58759	-5.573289
WDR33	-0.074144	7.8844488	-1.174641	0.2696266	0.5877	-5.573653
RSPH10B	0.1058628	6.9925256	1.1746298	0.2696307	0.5877	-5.573664
RAET1G	0.0917328	6.8811351	1.1742878	0.269761	0.5879	-5.574036
THADA	0.0936386	7.7862923	1.1737912	0.2699502	0.58822	-5.574575
MAN1A2	0.0761521	7.3519497	1.1736756	0.2699943	0.58823	-5.5747
FDPSP2	0.0987215	6.9031604	1.1732096	0.2701719	0.58853	-5.575206
BSDC1	0.1314665	8.9810784	1.172671	0.2703774	0.58889	-5.57579

IFIT3	0.0902469	7.0476965	1.1725514	0.270423	0.58889	-5.57592
SLC35G5	0.0791649	6.9826876	1.1724612	0.2704575	0.58889	-5.576018
FAM136BP	-0.091	7.9165687	-1.170658	0.2711465	0.59016	-5.577973
C2orf68	-0.080392	7.3135778	-1.170603	0.2711677	0.59016	-5.578033
TMEM39A	-0.091435	7.7426019	-1.170498	0.2712076	0.59016	-5.578146
RPL31	-0.099602	14.224464	-1.170399	0.2712456	0.59016	-5.578253
CCL8	-0.07515	6.8731785	-1.170288	0.2712881	0.59016	-5.578374
C14orf166	-0.087822	11.224469	-1.170281	0.2712908	0.59016	-5.578381
MIR339	-0.126112	7.135437	-1.170094	0.2713623	0.59016	-5.578584
FOXC1	-0.09871	6.9443569	-1.169984	0.2714043	0.59016	-5.578702
FAM32A	-0.0975	9.6671289	-1.169882	0.2714433	0.59016	-5.578813
FCGRT	-0.06924	7.4908193	-1.169872	0.2714474	0.59016	-5.578824
USP43	0.0991042	6.8606391	1.1696693	0.2715248	0.59025	-5.579043
USP28	-0.100073	6.8888308	-1.169089	0.271747	0.59063	-5.579671
BRD7P3	0.0746378	7.5760105	1.1689939	0.2717836	0.59063	-5.579774
PYM1	-0.09196	8.5688137	-1.168517	0.2719663	0.59082	-5.58029
CLUHP3	0.1431149	7.2679549	1.1684639	0.2719867	0.59082	-5.580348
CXCL14	0.0768754	6.8913448	1.1684468	0.2719933	0.59082	-5.580366
PPP1R7	-0.095237	9.2647054	-1.168064	0.2721403	0.59105	-5.580781
STARD4	-0.100786	6.8747588	-1.167904	0.2722016	0.5911	-5.580954
NOL10	-0.104983	7.2952834	-1.167521	0.2723483	0.59126	-5.581367
VPS29	-0.082904	10.902293	-1.167473	0.272367	0.59126	-5.58142
SMARCA1	0.098177	6.8403387	1.1673948	0.2723969	0.59126	-5.581504
RNASE10	-0.101071	7.1515136	-1.166945	0.2725696	0.59148	-5.58199
CBR3	0.117775	7.0724236	1.1669254	0.2725772	0.59148	-5.582012
MKL2	0.0958622	7.0016159	1.1667042	0.2726622	0.59149	-5.582251
ROPN1B	-0.074484	6.888668	-1.166555	0.2727193	0.59149	-5.582411
GPX4	0.1147741	11.304489	1.1664593	0.2727563	0.59149	-5.582515
TLN1	0.079944	8.9623174	1.1659386	0.2729564	0.59149	-5.583078
REXO4	-0.112532	9.9536687	-1.165937	0.2729571	0.59149	-5.58308
SNORD58B	-0.087575	6.9878443	-1.165894	0.2729736	0.59149	-5.583126
MTCP1	0.1204558	10.383553	1.1658641	0.2729851	0.59149	-5.583158
TRAPPC8	0.0985771	9.3394049	1.1658517	0.2729898	0.59149	-5.583172
CHAF1B	-0.111461	8.2744095	-1.165842	0.2729937	0.59149	-5.583183
METTL18	0.1152803	7.6713182	1.1657085	0.2730449	0.59149	-5.583326
PRICKLE3	0.11283	6.9571893	1.1654691	0.273137	0.59149	-5.583585
LOC1009965	0.0765119	7.1397578	1.1654603	0.2731404	0.59149	-5.583594
ALDOC	-0.149516	11.862494	-1.165457	0.2731415	0.59149	-5.583597
NSUN5	-0.079122	7.8732448	-1.165344	0.2731852	0.59149	-5.58372
LTB4R2	0.0826673	6.7933405	1.1652419	0.2732244	0.59149	-5.58383
ILF3	0.1208789	9.1199817	1.1652264	0.2732304	0.59149	-5.583847
MGAT5	0.1055781	8.2705521	1.164984	0.2733237	0.5916	-5.584108
TENM1	-0.089304	6.8325442	-1.16466	0.2734485	0.59175	-5.584458
HIVEP2	-0.138285	7.3996843	-1.164596	0.273473	0.59175	-5.584527
ALPI	-0.095234	6.9245216	-1.164293	0.2735898	0.59191	-5.584854

SLC8B1	-0.089369	7.5494158	-1.164031	0.2736907	0.59203	-5.585137
RBFOX2	0.1850734	8.476647	1.1638512	0.27376	0.59203	-5.585331
ZNF350	-0.082311	6.7288277	-1.163835	0.2737662	0.59203	-5.585348
RAB11FIP4	-0.108708	7.1406137	-1.16366	0.2738339	0.59209	-5.585538
PCDH9	-0.104567	7.1899384	-1.163536	0.2738816	0.59211	-5.585671
MAP4K2	-0.07051	11.517681	-1.163197	0.2740122	0.59228	-5.586036
PRKCSH	0.096085	8.3846614	1.1631182	0.2740427	0.59228	-5.586121
NLRP4	-0.087989	7.8439844	-1.162648	0.2742239	0.59253	-5.586628
PTPN1	0.1333769	9.8464293	1.162609	0.2742392	0.59253	-5.58667
PAGR1	-0.093005	9.6252548	-1.162405	0.2743179	0.59261	-5.58689
MIR577	0.0789436	6.9460273	1.162032	0.2744619	0.59283	-5.587292
WDR54	-0.126438	11.132574	-1.16158	0.2746364	0.59306	-5.587779
ANP32AP1	0.1341806	9.4560453	1.161555	0.2746462	0.59306	-5.587806
MIR101-2	-0.072235	6.8831966	-1.161102	0.2748213	0.59321	-5.588294
IVL	-0.123752	6.9478358	-1.161064	0.274836	0.59321	-5.588335
RNF146	0.0903579	7.4336828	1.1610569	0.2748387	0.59321	-5.588343
DNAJC22	-0.077284	6.7333209	-1.16093	0.2748879	0.59323	-5.588479
COX15	-0.104589	8.1264886	-1.160746	0.2749591	0.59329	-5.588678
NCF2	-0.099892	7.2453873	-1.160098	0.2752099	0.5936	-5.589375
SLC27A6	-0.103969	7.2917853	-1.160065	0.2752223	0.5936	-5.58941
TMSB10	-0.085092	13.376273	-1.160062	0.2752236	0.5936	-5.589414
SHC1	0.0829639	8.0811235	1.1598231	0.2753161	0.59367	-5.589671
SLC18B1	-0.080882	6.7992409	-1.159654	0.2753816	0.59367	-5.589853
GIMAP4	-0.088269	6.8004585	-1.159622	0.2753939	0.59367	-5.589887
RPS13	0.1440733	14.010827	1.1594966	0.2754426	0.59367	-5.590022
TUBA1B	0.0988162	13.748455	1.1594076	0.275477	0.59367	-5.590118
BICRA	-0.087915	8.1098913	-1.159347	0.2755006	0.59367	-5.590183
LILRB5	0.1003321	7.1336279	1.1590666	0.2756091	0.59382	-5.590484
CHRNA10	0.0799775	7.1250252	1.1586949	0.2757532	0.59398	-5.590884
TMEM47	-0.115261	6.9641797	-1.158663	0.2757655	0.59398	-5.590918
NDE1	0.1550509	9.0307803	1.1584073	0.2758647	0.59405	-5.591193
SNORA26	0.1144109	7.977281	1.1580495	0.2760035	0.59405	-5.591578
MOB1B	0.2163708	7.4606502	1.158006	0.2760204	0.59405	-5.591625
TMEM63B	0.0751543	7.2585756	1.1579601	0.2760382	0.59405	-5.591674
ATG14	-0.097192	8.1823594	-1.157873	0.276072	0.59405	-5.591768
RAB11FIP3	-0.123641	9.1923787	-1.157865	0.2760749	0.59405	-5.591776
CSNK1G1	-0.099408	7.6196282	-1.15784	0.2760848	0.59405	-5.591803
MYO18A	-0.080682	7.0786573	-1.157711	0.2761347	0.59407	-5.591941
RPL18	0.1215926	14.36575	1.1575076	0.2762138	0.59415	-5.59216
CENPB	-0.123815	9.9534905	-1.157408	0.2762526	0.59415	-5.592268
MAGOHB	0.1391633	8.0058092	1.1566858	0.276533	0.59467	-5.593043
TAB3	-0.077448	6.8541624	-1.156382	0.2766508	0.59483	-5.593369
PPP2R5D	0.0687802	7.568439	1.1558947	0.2768405	0.59515	-5.593892
ALOX5AP	-0.08602	12.123877	-1.155627	0.2769447	0.59529	-5.59418
DNAJC30	0.0907314	7.1183612	1.1550668	0.2771626	0.5956	-5.594781

AHSA2	-0.151095	8.5069828	-1.155019	0.2771811	0.5956	-5.594832
FAM213A	-0.074337	9.9187867	-1.154922	0.2772191	0.5956	-5.594936
MAGOH	0.0963589	9.0620623	1.1548346	0.277253	0.5956	-5.59503
ALPP	-0.132362	10.187436	-1.154517	0.2773767	0.59572	-5.595371
SLC44A1	0.0893618	9.2878903	1.1543941	0.2774245	0.59572	-5.595502
SH3BP4	0.1343014	6.8491354	1.1543468	0.277443	0.59572	-5.595553
ANKS3	-0.084424	7.0745212	-1.154257	0.2774781	0.59572	-5.59565
GLUD1	0.1313033	11.389463	1.1540152	0.2775722	0.59572	-5.595908
MIR450A1	0.1007222	7.0599447	1.1539994	0.2775783	0.59572	-5.595925
SNORD13	-0.140187	7.7530843	-1.153964	0.2775922	0.59572	-5.595964
SLC15A2	-0.077034	6.9068921	-1.153505	0.2777709	0.5958	-5.596455
PDE6G	-0.093007	6.9254402	-1.153482	0.2777801	0.5958	-5.59648
HEXIM1	-0.086999	6.8894199	-1.153459	0.2777888	0.5958	-5.596504
IKZF4	0.0777583	6.9760537	1.1533358	0.277837	0.5958	-5.596637
HELQ	-0.071973	7.6786144	-1.153334	0.2778379	0.5958	-5.596639
SF3B1	0.0921735	8.5141266	1.1529297	0.2779955	0.59603	-5.597072
LRWD1	-0.079531	9.6250114	-1.152793	0.278049	0.59603	-5.597219
STK26	-0.111176	10.034379	-1.152742	0.2780687	0.59603	-5.597273
SNRPB2	0.1011551	10.770684	1.1526505	0.2781044	0.59603	-5.597371
KATNA1	-0.072617	9.4823745	-1.152538	0.2781483	0.59603	-5.597491
ZNF584	0.0850222	7.3321292	1.1524247	0.2781926	0.59604	-5.597613
CCDC121	-0.073355	6.8712431	-1.152179	0.2782885	0.59616	-5.597876
NUDT9P1	-0.070821	6.9273029	-1.151514	0.2785484	0.59658	-5.598588
ABHD14A	-0.083988	8.0539886	-1.151464	0.2785678	0.59658	-5.598641
TBCK	-0.079176	7.776498	-1.151256	0.278649	0.59662	-5.598863
FAM161A	0.0786283	7.3353889	1.1511136	0.2787048	0.59662	-5.599016
MDGA1	-0.098254	6.7956606	-1.151107	0.2787073	0.59662	-5.599023
LRCH3	0.1171647	8.0288952	1.1504219	0.2789753	0.59709	-5.599756
ATP6V1A	0.0891362	11.725942	1.1503213	0.2790147	0.59709	-5.599864
1-Mar	-0.109293	7.5620257	-1.15023	0.2790504	0.59709	-5.599961
LSM5	-0.103569	10.389724	-1.150126	0.279091	0.59709	-5.600072
GNAO1	0.1093986	6.8753828	1.1499108	0.2791754	0.59714	-5.600303
PIN1	-0.101493	11.346213	-1.149838	0.2792037	0.59714	-5.60038
ZFHX2	0.071261	6.7367739	1.1496318	0.2792846	0.59714	-5.600601
GALNT6	-0.104648	6.9747865	-1.149544	0.2793188	0.59714	-5.600694
CPXM1	0.0936074	7.075803	1.1495437	0.2793191	0.59714	-5.600695
OXA1L	0.1112424	10.361948	1.1493154	0.2794086	0.59724	-5.600939
MROH7	0.0772747	6.8563659	1.1491182	0.2794858	0.59725	-5.60115
RNF8	-0.076834	7.7969288	-1.148991	0.2795356	0.59725	-5.601286
TOM1	-0.093966	7.8085151	-1.14899	0.2795362	0.59725	-5.601287
NUFIP2	0.0852581	8.8858131	1.1488678	0.2795839	0.59727	-5.601417
PITPNM1	0.1661262	8.9942108	1.1486024	0.279688	0.5974	-5.601701
SNORA67	-0.130737	9.2873275	-1.14847	0.2797401	0.59743	-5.601843
ALKBH8	0.1601953	7.4412383	1.1478376	0.279988	0.59781	-5.602518
SLC38A2	-0.119854	9.0094604	-1.147804	0.2800013	0.59781	-5.602554

OR1D4	0.093199	6.9100382	1.1472886	0.2802034	0.59815	-5.603104
SMARCB1	0.2011162	9.4056747	1.146494	0.2805156	0.5986	-5.603952
PPP2R3C	-0.141104	9.4887118	-1.14649	0.280517	0.5986	-5.603956
ACP6	-0.08703	7.7798563	-1.146437	0.280538	0.5986	-5.604013
NAPEPLD	0.0837636	6.9823697	1.1462445	0.2806136	0.5986	-5.604218
ZNF529	-0.113499	7.412965	-1.14618	0.2806389	0.5986	-5.604286
UBL7	0.0850597	7.7673297	1.1461334	0.2806573	0.5986	-5.604337
ACER2	-0.081021	7.2496626	-1.145717	0.2808212	0.59878	-5.604781
TBX6	-0.102747	6.9545669	-1.145689	0.2808321	0.59878	-5.60481
KDM3A	-0.113509	7.8988431	-1.145605	0.2808652	0.59878	-5.6049
CPOX	-0.086888	8.2291779	-1.145176	0.2810338	0.599	-5.605357
EEPD1	-0.106142	7.1842284	-1.145134	0.2810505	0.599	-5.605402
OAS2	-0.071426	8.0045155	-1.144835	0.2811684	0.59904	-5.605721
GSN	0.0978814	6.8166243	1.144672	0.2812323	0.59904	-5.605895
DLEU7	-0.088709	6.9543913	-1.144609	0.2812571	0.59904	-5.605961
INPP5K	0.0810048	7.1321689	1.1445683	0.2812732	0.59904	-5.606005
MBOAT7	0.1445509	8.4232459	1.1445594	0.2812767	0.59904	-5.606015
ECSIT	0.0830608	8.0405008	1.1442281	0.2814072	0.59923	-5.606368
MGAT1	0.1419533	8.9585749	1.1441175	0.2814508	0.59924	-5.606485
U2AF2	0.1198169	9.6421398	1.1433456	0.281755	0.59971	-5.607307
NIPSNAP2	-0.101603	9.0565571	-1.143342	0.2817563	0.59971	-5.607311
TMEM167B	0.1059083	8.3563423	1.1431425	0.2818352	0.59979	-5.607524
CDC42EP1	0.0847579	6.8923087	1.1428046	0.2819685	0.59998	-5.607883
HOXD3	-0.091206	7.0679701	-1.142707	0.2820072	0.59998	-5.607988
CASP7	-0.077212	7.4823961	-1.142412	0.2821233	0.60014	-5.608301
PIKFYVE	0.0889198	6.9521345	1.1421949	0.2822091	0.60019	-5.608532
SNORA27	-0.138767	8.822524	-1.142072	0.2822575	0.60019	-5.608662
PCSK9	-0.080152	6.8257073	-1.141959	0.2823021	0.60019	-5.608783
GP1BA	-0.076326	7.7862374	-1.141902	0.2823247	0.60019	-5.608843
ARF6	-0.117983	7.0609063	-1.14184	0.2823492	0.60019	-5.608909
DR1	-0.141983	9.1695719	-1.141672	0.2824156	0.60024	-5.609088
PRKCB	0.0681089	8.3586263	1.1413826	0.28253	0.60033	-5.609396
BAG5	0.0822866	8.351052	1.1410502	0.2826614	0.60033	-5.609749
CRLF3	0.092546	9.0476127	1.1406525	0.2828187	0.60033	-5.610172
SEPHS1P1	0.1006704	7.5907761	1.1405241	0.2828695	0.60033	-5.610309
DUS3L	0.0852083	8.1869774	1.1404774	0.282888	0.60033	-5.610358
NAXD	-0.091307	8.2109919	-1.140476	0.2828886	0.60033	-5.61036
MXRA8	0.0956834	6.8040684	1.1404461	0.2829003	0.60033	-5.610391
SLC12A5	0.0970219	6.9255475	1.1404069	0.2829159	0.60033	-5.610433
DIO1	0.0774869	6.7963842	1.1403372	0.2829435	0.60033	-5.610507
ST7L	-0.067401	6.893316	-1.140292	0.2829615	0.60033	-5.610556
SSC5D	0.0711446	6.8358157	1.1402419	0.2829812	0.60033	-5.610609
SLC30A3	0.0786411	7.0384197	1.1401392	0.2830218	0.60033	-5.610718
RBM48	0.0940444	7.0800754	1.1400902	0.2830412	0.60033	-5.61077
PKP2	0.0699282	6.7648936	1.1400586	0.2830537	0.60033	-5.610803

ZNF280C	0.1085447	7.9329579	1.1400016	0.2830763	0.60033	-5.610864
KIFAP3	-0.127342	8.5284767	-1.139893	0.2831193	0.60034	-5.610979
RAP1GAP2	-0.081648	6.8692592	-1.139506	0.2832724	0.60058	-5.61139
COX10	-0.087678	10.045111	-1.139137	0.2834188	0.60078	-5.611782
FNTA	-0.081902	8.4834645	-1.13906	0.2834491	0.60078	-5.611864
LETM2	-0.073535	6.838365	-1.138723	0.2835829	0.60097	-5.612222
SCG3	-0.073378	6.842512	-1.138536	0.2836569	0.60098	-5.61242
ADAMTSL5	0.0861928	6.9789133	1.1385056	0.2836689	0.60098	-5.612452
FUT8-AS1	-0.15544	7.1107328	-1.1381	0.2838297	0.6012	-5.612883
NUDT11	0.0740899	6.8598195	1.1379334	0.2838959	0.6012	-5.61306
LYPLAL1	0.0942189	10.077861	1.1378932	0.2839118	0.6012	-5.613102
KDM4C	-0.088621	7.3321187	-1.137779	0.2839573	0.6012	-5.613224
UQCC2	0.1031648	10.777836	1.1377219	0.2839798	0.6012	-5.613284
IFNAR2	0.1473221	8.6277986	1.1371442	0.2842091	0.60148	-5.613897
MIOS	0.1126135	9.0626526	1.1371391	0.2842111	0.60148	-5.613902
ATXN7L2	0.0791332	7.9268388	1.1370828	0.2842335	0.60148	-5.613962
NEDD8	0.1072535	11.405838	1.1368504	0.2843258	0.60159	-5.614208
VAX2	-0.077586	6.9548761	-1.136588	0.2844299	0.60172	-5.614486
JRKL	0.0784404	6.9967109	1.1364192	0.2844971	0.60177	-5.614665
UCK1	-0.117057	7.1486968	-1.136261	0.28456	0.60182	-5.614833
C1orf100	0.0764368	6.8475747	1.1359268	0.2846929	0.60201	-5.615187
DYNLL2	-0.080013	9.3825475	-1.135721	0.2847748	0.60205	-5.615405
PRKAR1A	0.0733641	9.3001048	1.1356705	0.2847948	0.60205	-5.615459
PABPC5	0.1079225	7.7775021	1.1352685	0.2849547	0.6023	-5.615884
RITA1	-0.099245	10.453385	-1.135132	0.2850091	0.60233	-5.616029
SUMF1	-0.117288	7.5586543	-1.134747	0.2851621	0.60257	-5.616436
FTH1	-0.146315	10.127316	-1.134482	0.285268	0.60259	-5.616718
SEMA4B	0.1028961	8.1452102	1.1342495	0.2853604	0.60259	-5.616963
GAS8	0.08177	6.6918171	1.1342437	0.2853627	0.60259	-5.616969
TLE2	0.0708413	6.8783431	1.1342142	0.2853745	0.60259	-5.617001
LOC100190	-0.161134	8.4478993	-1.134171	0.2853915	0.60259	-5.617046
TMEM54	0.0723741	6.7603426	1.1340056	0.2854576	0.60259	-5.617221
MPPE1	-0.070364	7.8632307	-1.134	0.2854597	0.60259	-5.617227
ITSN2	0.0789606	7.0107487	1.133889	0.285504	0.60259	-5.617345
C9orf142	0.1334107	9.813377	1.1335615	0.2856346	0.60278	-5.617691
FLJ41130	0.092816	6.9922922	1.1334537	0.2856775	0.60278	-5.617805
POGZ	-0.070449	6.995266	-1.133353	0.2857177	0.60278	-5.617912
MMP28	-0.080509	6.8402171	-1.132934	0.2858848	0.60299	-5.618355
NCOA5	-0.097638	8.9559047	-1.132894	0.2859009	0.60299	-5.618397
ADAP2	-0.073488	6.8570463	-1.132195	0.2861798	0.6035	-5.619136
IGSF8	0.1118786	7.0941073	1.1319593	0.2862739	0.60352	-5.619385
ITGAM	-0.080723	6.8552606	-1.131944	0.28628	0.60352	-5.619402
ARFGAP1	0.1100636	7.7444037	1.1317847	0.2863436	0.60352	-5.61957
ACSM6	-0.0798	6.794856	-1.13168	0.2863855	0.60352	-5.619681
GCAT	0.1009438	8.8161724	1.131646	0.286399	0.60352	-5.619716

FASTKD2	0.1178553	8.5102167	1.1311829	0.2865841	0.60382	-5.620206
SLC45A1	-0.090039	6.914255	-1.13101	0.2866531	0.60382	-5.620388
LAMA3	0.072154	6.7689015	1.1308014	0.2867366	0.60382	-5.620609
FCAR	0.1348685	8.2555388	1.1307753	0.286747	0.60382	-5.620636
NCKIPSD	-0.109009	7.9238674	-1.130743	0.2867598	0.60382	-5.62067
CAMK2B	-0.067556	6.792418	-1.130537	0.2868422	0.60382	-5.620887
SLC25A11	-0.090007	8.3745972	-1.1304	0.2868969	0.60382	-5.621032
ROS1	-0.07641	6.7503221	-1.130384	0.2869037	0.60382	-5.62105
NUPL2	-0.088021	9.7942918	-1.130361	0.2869127	0.60382	-5.621073
UFSP2	0.0872077	9.8677993	1.1302116	0.2869725	0.60383	-5.621231
ARHGAP9	-0.069684	7.9443837	-1.130071	0.2870288	0.60383	-5.62138
PDP2	0.0793896	7.3710853	1.1299844	0.2870634	0.60383	-5.621471
ANGPTL8	0.0674448	6.8439601	1.1299394	0.2870815	0.60383	-5.621519
INTS6	0.0827885	8.1753101	1.1298344	0.2871235	0.60383	-5.621629
ZNF124	-0.070625	7.0221778	-1.129671	0.2871887	0.60388	-5.621801
TNFRSF10C	0.0737267	7.0372717	1.1295553	0.2872352	0.60389	-5.621924
RLF	0.0973428	7.7515739	1.1294159	0.287291	0.60392	-5.622071
POLR2H	-0.117567	12.094648	-1.129283	0.2873445	0.60394	-5.622212
HOPX	0.0819298	7.1570857	1.1291308	0.2874052	0.60399	-5.622372
KCNA7	0.0905531	6.9811878	1.1289924	0.2874607	0.60402	-5.622518
RGPD6	0.0833405	6.8597296	1.1285065	0.2876554	0.60434	-5.62303
STX16	0.0997397	8.5029621	1.1283741	0.2877085	0.60436	-5.62317
CDT1	-0.225563	9.4455829	-1.127885	0.2879047	0.60458	-5.623685
PEF1	0.0809225	8.9553999	1.1278683	0.2879113	0.60458	-5.623703
RAPH1	-0.072315	6.8063521	-1.127807	0.2879361	0.60458	-5.623768
ARID2	0.0968929	7.6890146	1.1276451	0.2880009	0.60463	-5.623938
CRB2	-0.077568	6.7611175	-1.127473	0.2880698	0.60463	-5.624119
PMEL	0.0732499	6.8121072	1.1274404	0.2880831	0.60463	-5.624154
AFAP1L2	-0.085943	7.0878377	-1.127012	0.2882551	0.6049	-5.624605
ALG10B	0.0723228	7.3486763	1.1268834	0.2883067	0.60492	-5.624741
AQR	0.1006817	8.0576262	1.1265697	0.2884327	0.6051	-5.625071
TRAF3	-0.093875	7.6322591	-1.126285	0.288547	0.60525	-5.625371
DMXL1	-0.081963	6.9219702	-1.124852	0.2891236	0.60625	-5.626879
RAD52	-0.069419	6.8607971	-1.124761	0.2891598	0.60625	-5.626974
STOM	-0.078004	7.1732958	-1.124692	0.2891879	0.60625	-5.627047
CDH23	-0.089239	6.8471646	-1.124687	0.2891899	0.60625	-5.627052
MIR498	-0.074022	6.9359807	-1.124346	0.2893271	0.6063	-5.627411
PTENP1	-0.098654	6.9800733	-1.124314	0.2893401	0.6063	-5.627445
GPR162	-0.074294	6.8531775	-1.124285	0.2893518	0.6063	-5.627475
PALB2	0.0907855	8.1334202	1.1240899	0.2894302	0.6063	-5.62768
KRT73	-0.073364	6.9815271	-1.124023	0.2894572	0.6063	-5.62775
MBD5	0.0928576	6.8777007	1.1239433	0.2894893	0.6063	-5.627834
TMEM51	0.0707994	6.8872135	1.1239053	0.2895046	0.6063	-5.627874
TSC22D4	0.1030442	7.512223	1.1236529	0.2896064	0.60643	-5.628139
BAX	0.0958245	7.7811264	1.1228865	0.2899153	0.60693	-5.628945

VPS28	-0.090548	8.5396954	-1.12277	0.2899622	0.60693	-5.629067
ZNF286A	-0.102999	7.144253	-1.122751	0.2899698	0.60693	-5.629087
SOX8	-0.080731	6.891922	-1.122508	0.2900682	0.60694	-5.629343
LINC02076	-0.075441	6.8117266	-1.122463	0.2900863	0.60694	-5.62939
ARRDC2	-0.07782	7.3813934	-1.12243	0.2900995	0.60694	-5.629424
NDUFA2	-0.078791	12.151888	-1.122285	0.2901581	0.60695	-5.629577
USP32	-0.07068	6.9321982	-1.122213	0.2901871	0.60695	-5.629652
TNFRSF13C	0.0974461	7.7342911	1.1216008	0.2904343	0.60738	-5.630295
ZNF319	0.0959509	8.6535407	1.1210791	0.2906451	0.60765	-5.630842
BMP2K	0.0711766	8.3753941	1.1210741	0.2906471	0.60765	-5.630847
SNX11	-0.084973	8.7337481	-1.12094	0.2907013	0.60766	-5.630988
HSPA7	-0.098479	7.1691372	-1.120851	0.2907373	0.60766	-5.631082
BRD7	0.0798853	9.4883392	1.120549	0.2908594	0.60783	-5.631398
UBL5	0.0738065	9.5845721	1.120292	0.2909634	0.60788	-5.631668
NKAP	-0.101566	7.0011129	-1.1202	0.2910006	0.60788	-5.631764
ALOXE3	-0.071116	6.8505138	-1.120136	0.2910265	0.60788	-5.631831
HOXB3	-0.066319	6.8648099	-1.119896	0.2911237	0.60788	-5.632083
WASHC2A	-0.077874	7.2406767	-1.119892	0.2911252	0.60788	-5.632087
GLIS3	0.0817658	7.0042672	1.1198585	0.2911388	0.60788	-5.632122
FAM126A	0.0817027	7.176089	1.1197706	0.2911743	0.60788	-5.632214
MTFR1	0.0850771	9.8606418	1.1196723	0.2912141	0.60788	-5.632317
7-Sep	-0.137317	8.0281907	-1.119486	0.2912894	0.60795	-5.632512
ZNF69	0.1036548	8.5408558	1.1191311	0.2914333	0.608	-5.632885
ACVR1	-0.081076	6.8665612	-1.11912	0.2914376	0.608	-5.632896
HPD	0.0734847	6.8148504	1.1191198	0.2914378	0.608	-5.632897
TM7SF2	0.1354859	8.941986	1.118757	0.2915848	0.60815	-5.633277
FNBP1	0.1139426	12.133401	1.1186891	0.2916123	0.60815	-5.633348
RUBCNL	-0.075353	9.5571285	-1.118624	0.2916387	0.60815	-5.633416
MYOG	-0.153103	6.9915384	-1.118454	0.2917077	0.60816	-5.633594
PDCD7	0.1153656	11.382568	1.1183962	0.291731	0.60816	-5.633654
SPA17	-0.094877	7.567298	-1.118313	0.2917647	0.60816	-5.633742
CARD8	0.0773125	7.7163304	1.1179319	0.2919193	0.60825	-5.634141
TSPY26P	0.0744243	6.8338075	1.1179137	0.2919267	0.60825	-5.63416
CNMD	-0.069647	6.9624273	-1.117889	0.2919366	0.60825	-5.634185
NUP62CL	-0.088469	8.4263124	-1.117729	0.2920017	0.6083	-5.634353
KMT5B	0.0725514	7.826646	1.1172358	0.2922017	0.60856	-5.634869
LIMS1	0.1413591	7.3823364	1.1172108	0.2922119	0.60856	-5.634896
SNRNP40	0.0794113	10.423713	1.1170335	0.2922838	0.60856	-5.635081
ATL2	-0.079731	8.2060517	-1.117015	0.2922912	0.60856	-5.6351
ATE1	-0.074597	7.4057399	-1.116905	0.2923359	0.60856	-5.635215
ANKRD54	0.0860027	8.6330433	1.1167719	0.29239	0.60857	-5.635355
ALAS2	-0.080447	6.8687158	-1.116695	0.2924213	0.60857	-5.635435
AFG3L1P	0.0752503	7.4129697	1.1164657	0.2925144	0.60868	-5.635675
C19orf24	0.1326403	8.7831416	1.116149	0.292643	0.60886	-5.636006
WDYHV1	-0.077596	8.1984961	-1.115565	0.2928803	0.60926	-5.636617

MSI1	-0.074192	6.8531598	-1.115268	0.2930013	0.60943	-5.636928
ANK3	-0.107306	6.9590718	-1.115092	0.2930728	0.60949	-5.637111
COX7A2	-0.095483	14.241272	-1.11493	0.2931388	0.60953	-5.637281
MPV17	0.143266	9.6174077	1.1148445	0.2931735	0.60953	-5.63737
GPN1	0.0734762	10.904495	1.1145054	0.2933115	0.60973	-5.637724
GABARAPL2	-0.139585	9.837487	-1.114382	0.2933619	0.60974	-5.637853
PTPN13	0.0885514	6.8185257	1.1140014	0.2935167	0.6099	-5.63825
FXYD2	-0.071594	6.9204187	-1.113989	0.2935219	0.6099	-5.638264
FAM49A	0.087465	7.1344859	1.1135404	0.2937046	0.61012	-5.638732
RHOF	0.1134433	7.7705263	1.1135211	0.2937124	0.61012	-5.638752
SLC22A15	-0.079578	6.687753	-1.112947	0.2939463	0.61045	-5.639351
ZNF829	-0.07254	6.8581153	-1.112926	0.2939552	0.61045	-5.639373
ZNF33A	0.0947108	7.8621204	1.1127544	0.294025	0.61051	-5.639552
ARPC2	0.0916329	9.1726124	1.112439	0.2941536	0.61069	-5.639881
KDM1B	-0.083705	6.9659806	-1.112215	0.294245	0.6108	-5.640114
SFT2D2	-0.084108	7.2817204	-1.111419	0.29457	0.61133	-5.640945
TSC22D1	-0.066518	7.7679769	-1.111379	0.2945863	0.61133	-5.640986
YPEL2	-0.085938	7.299955	-1.110966	0.294755	0.61159	-5.641416
SLC7A2	-0.081538	6.6953916	-1.110595	0.2949067	0.61182	-5.641803
MED6	-0.123399	10.586272	-1.109867	0.2952043	0.61232	-5.642561
TNN	-0.077008	6.8407946	-1.109808	0.2952288	0.61232	-5.642623
ST6GALNAC	0.0706883	6.9246587	1.1097006	0.2952725	0.61232	-5.642735
HIST1H1C	-0.110973	8.1872272	-1.109388	0.2954004	0.6125	-5.64306
MLH3	-0.070254	6.9869535	-1.109148	0.2954987	0.61259	-5.64331
RALGPS2	-0.081028	7.015219	-1.109073	0.2955294	0.61259	-5.643388
ZNF34	-0.097536	7.3048633	-1.108573	0.2957342	0.61281	-5.643908
APLP2	0.0709992	7.3030939	1.1085395	0.2957479	0.61281	-5.643943
CSPP1	0.0712493	8.3477153	1.1085071	0.2957613	0.61281	-5.643977
TRERF1	-0.072342	7.4003714	-1.108249	0.2958668	0.61284	-5.644245
RARA	0.1098189	8.0718943	1.1082235	0.2958774	0.61284	-5.644272
FAM98C	0.0859383	7.4619879	1.1081692	0.2958997	0.61284	-5.644328
DNAJC10	-0.128666	8.7384033	-1.108044	0.2959509	0.61286	-5.644458
LOC1001295	-0.081341	6.9127071	-1.107658	0.2961095	0.6131	-5.64486
MGAM2	-0.106591	7.0171671	-1.1069	0.2964202	0.61365	-5.645648
PTGES2-AS1	0.0870679	7.4571034	1.1066492	0.2965232	0.61378	-5.645909
ARL6IP6	0.0840584	8.2760116	1.1064131	0.2966202	0.61389	-5.646154
DCUN1D3	-0.074908	7.3111808	-1.106226	0.296697	0.61396	-5.646348
SCO2	-0.100467	9.9853932	-1.105987	0.2967951	0.61405	-5.646596
RPL37	-0.075793	7.9222896	-1.105922	0.296822	0.61405	-5.646664
ELMOD1	0.0797487	6.7610505	1.1057881	0.2968769	0.61408	-5.646803
FASTKD3	-0.092716	9.4592386	-1.105585	0.2969605	0.61416	-5.647014
NDUFS4	0.102327	11.01988	1.1053408	0.2970608	0.61428	-5.647267
RIC1	-0.077582	6.9944773	-1.105243	0.2971008	0.61428	-5.647368
OAS1	-0.073024	7.5628649	-1.10439	0.2974519	0.61492	-5.648254
NELFCD	0.0902743	10.549727	1.1042334	0.2975164	0.61496	-5.648416

LRR1	-0.079538	8.6808998	-1.104098	0.2975722	0.61499	-5.648557
CIDEC	0.0868747	7.0189673	1.1038025	0.2976938	0.61511	-5.648863
MANEA	-0.077374	7.1624976	-1.103754	0.2977139	0.61511	-5.648914
TMEM65	-0.110459	6.8819494	-1.10356	0.2977937	0.61514	-5.649115
GBP1	0.0921402	7.4840648	1.1034227	0.2978502	0.61514	-5.649257
STAC2	0.0676101	6.8631152	1.1034127	0.2978543	0.61514	-5.649268
PSMB10	-0.08616	13.030425	-1.103074	0.297994	0.61534	-5.649619
MED11	-0.092788	7.6444088	-1.102928	0.2980543	0.61538	-5.64977
SIX4	-0.086199	6.7821906	-1.102293	0.2983161	0.61571	-5.650428
NDUFC2	-0.128224	7.1554754	-1.102102	0.2983949	0.61571	-5.650626
TWSG1	0.1081477	8.535833	1.1020615	0.2984115	0.61571	-5.650668
NOP14-AS1	0.100154	6.9577143	1.1020436	0.2984188	0.61571	-5.650686
CA5B	0.0774598	7.3499589	1.1020243	0.2984268	0.61571	-5.650706
ARSG	0.0895653	7.0413203	1.1019058	0.2984757	0.61572	-5.650829
GMEB2	-0.097535	9.0345551	-1.101607	0.2985991	0.61589	-5.651138
ENPP7	0.096797	6.9258073	1.1012931	0.2987286	0.61607	-5.651463
NOL3	0.1155979	7.065313	1.1010585	0.2988255	0.61616	-5.651706
ARL8B	-0.135278	9.8305029	-1.100817	0.2989253	0.61616	-5.651956
C3orf62	-0.116634	7.3407857	-1.100802	0.2989317	0.61616	-5.651972
SCAND2P	0.0658534	6.9857055	1.1007769	0.2989418	0.61616	-5.651998
HAAO	0.085056	6.9738541	1.1006154	0.2990086	0.61621	-5.652165
FAM107B	0.1066469	10.718693	1.1001257	0.299211	0.61654	-5.652671
APOOL	-0.076395	7.4554829	-1.099916	0.2992977	0.61658	-5.652888
TOP1	0.0944731	7.6740447	1.0997921	0.299349	0.61658	-5.653016
KRTAP3-2	0.0951477	6.878634	1.0997743	0.2993563	0.61658	-5.653035
FAU	0.1169701	13.925763	1.0994308	0.2994984	0.61674	-5.65339
MTURN	-0.129327	9.2461878	-1.099387	0.2995167	0.61674	-5.653436
STC2	-0.067383	6.7353931	-1.098941	0.2997012	0.61692	-5.653896
ATP6V0A2	-0.103152	9.2293941	-1.098885	0.2997243	0.61692	-5.653954
TPST2	-0.090631	8.413335	-1.098868	0.2997315	0.61692	-5.653972
EPSTI1	-0.140755	8.5845826	-1.098743	0.2997833	0.61694	-5.654101
JPH1	-0.090302	6.7950622	-1.09859	0.2998463	0.61697	-5.654259
STAG3L3	-0.179336	8.954126	-1.098376	0.2999351	0.61697	-5.65448
TBP	-0.087753	9.084361	-1.098311	0.2999621	0.61697	-5.654547
RAP1GDS1	-0.072493	8.8997619	-1.098296	0.2999685	0.61697	-5.654563
TTC3P1	-0.098092	6.7752378	-1.097879	0.300141	0.61719	-5.654993
NMRAL1	-0.106828	10.525686	-1.097837	0.3001583	0.61719	-5.655036
TRAPPC2B	-0.077494	8.0810751	-1.097131	0.3004513	0.61769	-5.655766
TMEM198	0.0791053	7.2202941	1.0969526	0.3005252	0.61769	-5.65595
MRPS23	-0.089162	9.7766001	-1.096885	0.3005532	0.61769	-5.65602
ACTR5	-0.072347	8.401731	-1.096848	0.3005686	0.61769	-5.656058
DROSHA	0.0828115	7.9942961	1.0964175	0.3007473	0.61787	-5.656502
DPF2	0.07942	9.4785685	1.0964121	0.3007495	0.61787	-5.656508
MSANTD3	-0.116664	8.6159912	-1.096323	0.3007866	0.61787	-5.6566
POU3F1	0.0999487	7.0055731	1.0960125	0.3009154	0.618	-5.65692

CMTM5	0.0776978	6.8550458	1.095964	0.3009356	0.618	-5.65697
PAIP2	0.0688583	8.5473671	1.0957807	0.3010117	0.61807	-5.657159
PROP1	-0.101918	7.094043	-1.095538	0.3011125	0.61819	-5.657409
MRFAP1L1	-0.071545	7.9739683	-1.095283	0.3012187	0.61832	-5.657673
STXBP2	0.140155	8.1298647	1.0948995	0.3013779	0.61856	-5.658067
KRT8	0.1305888	6.8360285	1.0943515	0.3016058	0.61895	-5.658632
ACRV1	0.0726563	6.8339023	1.0940415	0.3017348	0.61912	-5.658951
PEBP4	0.0745845	6.8071938	1.0933571	0.3020198	0.61955	-5.659656
GEM	-0.068232	6.800866	-1.093333	0.30203	0.61955	-5.659681
NPFF	0.1061134	7.0132061	1.0932338	0.3020712	0.61955	-5.659783
NDUFB8	-0.10177	12.903521	-1.093105	0.3021249	0.61957	-5.659916
ARL1	0.0897386	8.4094779	1.0928048	0.3022499	0.61974	-5.660225
UFC1	0.1311579	10.294165	1.0922408	0.302485	0.62007	-5.660805
SNX3	-0.091252	9.6255067	-1.092214	0.3024962	0.62007	-5.660833
PTPRS	0.0882508	6.9965684	1.0920014	0.3025848	0.62012	-5.661051
NDUFB7	0.0823426	11.491902	1.0919622	0.3026012	0.62012	-5.661092
AMT	-0.09656	7.342691	-1.091568	0.3027657	0.62028	-5.661497
TOLLIP	0.1080935	7.5930919	1.0915605	0.3027687	0.62028	-5.661505
FCN1	0.0772862	6.9249195	1.0912294	0.3029069	0.62048	-5.661845
WASH3P	0.0754168	7.8762072	1.0907924	0.3030894	0.62067	-5.662294
PLEKHB1	-0.085925	7.4591906	-1.090567	0.3031837	0.62067	-5.662526
ZCCHC4	-0.080954	7.0520725	-1.090367	0.3032669	0.62067	-5.662731
GFRA1	0.0679736	6.8597423	1.0903279	0.3032835	0.62067	-5.662772
DEPDC5	-0.096801	7.572272	-1.090285	0.3033012	0.62067	-5.662815
MAP6	-0.068151	6.8930057	-1.090025	0.3034102	0.62067	-5.663083
PLEKHB2	0.1821982	8.083457	1.0900138	0.3034147	0.62067	-5.663094
PLXNA1	0.1002519	7.4025247	1.0899781	0.3034296	0.62067	-5.663131
MAPK4	0.0763945	6.9363921	1.0899409	0.3034452	0.62067	-5.663169
C19orf57	0.0742763	6.8811542	1.0898706	0.3034745	0.62067	-5.663241
RAPGEF2	0.1040618	8.1534776	1.0898076	0.3035009	0.62067	-5.663306
RTN1	0.1008988	7.2708477	1.0897607	0.3035205	0.62067	-5.663354
TBC1D8	0.0892234	6.9187273	1.0896894	0.3035503	0.62067	-5.663427
MTCH2	-0.148078	8.4109691	-1.088972	0.3038505	0.62119	-5.664164
MYBPH	-0.074815	6.8013594	-1.088841	0.3039051	0.62122	-5.664298
SPAG17	0.0668399	6.7671476	1.0886463	0.3039867	0.62129	-5.664498
PDE6B	-0.070971	7.7320113	-1.088425	0.3040792	0.62129	-5.664725
CHKB-AS1	0.0781495	6.9541458	1.0883635	0.3041051	0.62129	-5.664788
ZNF25	0.1338913	7.6923828	1.088349	0.3041112	0.62129	-5.664803
KANK1	0.0847463	7.8561319	1.0878672	0.304313	0.62153	-5.665297
RBL1	0.0929742	7.5384918	1.087867	0.304313	0.62153	-5.665298
TMEM217	-0.092092	6.8949526	-1.087647	0.3044054	0.62163	-5.665524
GAN	-0.090466	7.0222906	-1.087552	0.3044452	0.62163	-5.665621
NFATC2IP	0.0831838	7.5718422	1.0873865	0.3045144	0.62168	-5.66579
SMAD7	0.0866481	7.1821638	1.087179	0.3046014	0.62169	-5.666003
DGAT1	-0.065902	7.6620633	-1.087167	0.3046063	0.62169	-5.666015

FBXO2	0.0865416	6.9605458	1.0870126	0.3046711	0.62169	-5.666174
UGCG	-0.099179	7.8842546	-1.086969	0.3046895	0.62169	-5.666218
PIK3R1	0.0769158	7.4007744	1.0868673	0.3047321	0.62169	-5.666323
DZANK1	-0.102251	7.1866865	-1.08607	0.3050665	0.62224	-5.667139
NRIP1	-0.066168	7.0593721	-1.086007	0.3050931	0.62224	-5.667204
MBTPS1	0.0829161	8.635952	1.0858675	0.3051516	0.62224	-5.667347
SEMA5B	0.0656284	6.871903	1.0858179	0.3051724	0.62224	-5.667398
TWF2	0.1039581	9.4546081	1.0853653	0.3053625	0.62245	-5.667861
TRAPPC5	-0.091351	10.657892	-1.085357	0.305366	0.62245	-5.66787
ATP5G1	-0.076951	11.006023	-1.085273	0.3054014	0.62245	-5.667956
MKRN3	-0.073059	6.7666226	-1.084716	0.3056356	0.62274	-5.668526
SLC7A1	0.1085573	10.789284	1.0846605	0.3056587	0.62274	-5.668582
ZHX1	0.0729988	7.1925319	1.0845603	0.3057008	0.62274	-5.668685
MIR877	0.0803441	7.6282238	1.0845206	0.3057175	0.62274	-5.668726
EIF3K	0.1246013	12.39068	1.0843349	0.3057956	0.62281	-5.668916
CPSF6	0.0783171	7.7398315	1.0840955	0.3058963	0.62281	-5.669161
B3GAT1	-0.070396	6.977655	-1.084047	0.3059167	0.62281	-5.66921
SDF2	-0.07665	9.345675	-1.083951	0.3059569	0.62281	-5.669308
POLR1B	0.096971	7.7092623	1.0839321	0.305965	0.62281	-5.669328
TADA3	0.0947705	8.2666984	1.0838118	0.3060156	0.62283	-5.669451
RGS2	-0.124471	8.7086758	-1.083449	0.3061682	0.62305	-5.669821
PAX7	0.0910646	6.9220969	1.0833055	0.3062287	0.62309	-5.669968
HGS	-0.125036	10.684941	-1.083087	0.3063209	0.62314	-5.670192
GTF3C4	-0.068839	6.9671235	-1.08304	0.3063405	0.62314	-5.67024
POLR3GL	0.1050197	9.3896473	1.0826188	0.3065179	0.62342	-5.67067
PRTFDC1	-0.073134	6.8287626	-1.082168	0.306708	0.6236	-5.671131
FUZ	0.1007737	7.3352865	1.082163	0.30671	0.6236	-5.671136
EZH1	0.121953	7.2671272	1.0819721	0.3067904	0.6236	-5.671331
YBX1	-0.115155	12.916032	-1.081918	0.3068133	0.6236	-5.671386
WDR4	-0.06531	9.0161658	-1.081898	0.3068216	0.6236	-5.671406
SAMD8	-0.078626	7.0044034	-1.081606	0.3069449	0.62369	-5.671705
PLAG1	-0.113408	7.6801096	-1.081585	0.3069537	0.62369	-5.671726
LOC554207	0.0768753	7.0037724	1.0809599	0.3072174	0.62414	-5.672364
TTTY2B	-0.079769	6.9391985	-1.080771	0.3072969	0.62422	-5.672557
TMEM97	-0.078202	9.8960363	-1.080645	0.3073503	0.62423	-5.672685
VDR	-0.078957	6.9431181	-1.080548	0.3073912	0.62423	-5.672784
MAP3K7CL	-0.076814	9.878584	-1.080339	0.3074794	0.62424	-5.672997
NEUROG3	-0.075608	6.9554887	-1.080334	0.3074816	0.62424	-5.673003
MPP1	-0.071503	6.8302225	-1.080143	0.3075624	0.62424	-5.673198
PACSIN2	0.0691345	8.7888143	1.0798004	0.3077071	0.62424	-5.673547
EDF1	0.0798272	11.361631	1.0797152	0.307743	0.62424	-5.673634
IKBKAP	-0.093956	7.1950722	-1.079675	0.3077599	0.62424	-5.673675
FAM184B	-0.065341	6.8625824	-1.079674	0.3077605	0.62424	-5.673676
HIST1H4L	-0.140323	6.8390167	-1.079627	0.3077802	0.62424	-5.673724
PIMREG	0.0825741	6.7714414	1.0795722	0.3078035	0.62424	-5.67378

INPP5D	0.0996861	9.2908382	1.0795287	0.3078219	0.62424	-5.673824
MTMR1	-0.0955	7.2362528	-1.079218	0.3079533	0.62442	-5.674141
YTHDF1	0.1284466	9.6926072	1.0787606	0.3081467	0.62473	-5.674607
RPA2	-0.132288	11.786654	-1.078116	0.3084193	0.62513	-5.675264
UBASH3B	0.0863005	7.1303466	1.0778223	0.3085438	0.62513	-5.675563
OSBPL3	0.0771914	7.9590924	1.0776965	0.308597	0.62513	-5.675691
ZNF362	-0.079369	6.900842	-1.077635	0.3086233	0.62513	-5.675754
C1orf109	0.0800257	8.5883845	1.0776248	0.3086274	0.62513	-5.675764
PBLD	0.0678545	6.9289295	1.0775853	0.3086442	0.62513	-5.675804
ATP5F1	-0.067649	12.170111	-1.077484	0.3086872	0.62513	-5.675908
BAGE5	0.1146109	7.1599557	1.0774821	0.3086879	0.62513	-5.675909
SH2D1B	0.0925683	6.9210246	1.0771424	0.3088318	0.62533	-5.676255
DBI	-0.067032	11.681606	-1.077037	0.3088764	0.62534	-5.676362
RPL13A	-0.130059	13.900596	-1.076654	0.3090389	0.62538	-5.676752
PDCD2L	-0.072949	9.994796	-1.076631	0.3090484	0.62538	-5.676775
TNS1	-0.076578	6.8867539	-1.076588	0.3090668	0.62538	-5.676819
FBXL3	-0.076089	7.5196819	-1.076578	0.3090709	0.62538	-5.676829
RPS26P15	0.0958516	11.944853	1.0762025	0.3092303	0.62562	-5.677212
PDIA4	-0.09834	8.1159328	-1.075573	0.3094974	0.62607	-5.677852
PHF10	0.0957711	7.8496131	1.0751419	0.3096804	0.62635	-5.67829
FTO	0.0928604	7.9216674	1.0750492	0.3097197	0.62635	-5.678384
GOLT1B	-0.160283	9.1139329	-1.074662	0.3098842	0.62653	-5.678778
CBWD7	-0.070338	7.0067469	-1.074563	0.3099262	0.62653	-5.678878
EHD1	-0.134775	12.146747	-1.07447	0.3099656	0.62653	-5.678972
PGLS	0.1080056	9.5792595	1.0742915	0.3100417	0.62653	-5.679154
HLA-DOB	0.0851305	9.3894547	1.0742071	0.3100775	0.62653	-5.67924
ENTPD6	0.0842853	7.714962	1.0741941	0.3100831	0.62653	-5.679253
PDAP1	-0.071262	7.1769875	-1.074134	0.3101086	0.62653	-5.679314
DNAJC5G	0.0769279	6.9334761	1.0738706	0.3102206	0.62667	-5.679581
DCAF8	-0.092443	9.365726	-1.073109	0.3105448	0.62724	-5.680355
PDXDC2P-NI	-0.066536	6.8745152	-1.072972	0.3106028	0.62727	-5.680493
TTC37	0.1063118	9.9053987	1.072667	0.3107327	0.6274	-5.680803
SRD5A3	-0.074452	7.0402211	-1.072609	0.3107576	0.6274	-5.680862
GPR137B	0.0968755	7.3890198	1.0725082	0.3108003	0.6274	-5.680964
ADAL	-0.109056	7.6098192	-1.07226	0.3109061	0.62753	-5.681216
HIGD1A	-0.066562	10.968456	-1.071696	0.3111462	0.62788	-5.681788
ZNF821	-0.130495	7.329245	-1.071653	0.3111646	0.62788	-5.681831
ALS2CL	-0.085742	6.7482987	-1.071429	0.3112601	0.62797	-5.682059
CYB5A	-0.07094	10.043946	-1.071348	0.3112948	0.62797	-5.682141
OR10J3	0.06962	6.7711412	1.0710566	0.3114189	0.62807	-5.682436
CYP19A1	0.0733101	6.8729979	1.0709372	0.3114699	0.62807	-5.682557
ANP32E	0.0875215	6.9493064	1.0709237	0.3114757	0.62807	-5.682571
FBXO34	-0.102728	8.7648088	-1.07029	0.3117462	0.62814	-5.683213
RNF175	0.0679223	6.8591705	1.0701159	0.3118204	0.62814	-5.683389
CWC22	-0.069965	6.9801342	-1.069817	0.3119481	0.62814	-5.683692

FAM159A	0.066519	6.909901	1.0697447	0.3119789	0.62814	-5.683765
CLIC6	0.0733254	6.8096219	1.0696947	0.3120002	0.62814	-5.683816
HNRNPUL1	0.0646496	8.8621333	1.0696293	0.3120282	0.62814	-5.683882
FLJ41455	-0.107603	7.3110812	-1.069614	0.3120349	0.62814	-5.683898
ASIC1	-0.086516	6.7521373	-1.069507	0.3120805	0.62814	-5.684006
UBR3	0.0847742	7.8890485	1.0694299	0.3121133	0.62814	-5.684084
MAT1A	0.0931499	7.5138727	1.0693788	0.3121352	0.62814	-5.684135
PAN3	0.0866547	8.9612535	1.0693575	0.3121443	0.62814	-5.684157
PPM1H	-0.07225	6.8118044	-1.069133	0.3122403	0.62814	-5.684384
POU4F2	0.0983928	6.7778201	1.0690808	0.3122625	0.62814	-5.684437
CTSS	-0.126451	7.2144108	-1.068729	0.3124129	0.62814	-5.684793
BRIX1	-0.088072	10.811761	-1.06872	0.3124166	0.62814	-5.684802
SPACA6	-0.070244	7.1811392	-1.06865	0.3124466	0.62814	-5.684873
C1orf186	-0.077381	6.9031012	-1.068624	0.3124579	0.62814	-5.6849
TBX10	0.0820118	6.9100935	1.0685708	0.3124805	0.62814	-5.684953
TBC1D13	0.0642101	7.8245706	1.0684978	0.3125118	0.62814	-5.685027
CD207	0.0780347	6.9560687	1.0684137	0.3125477	0.62814	-5.685112
ELP4	-0.088504	8.0927696	-1.068413	0.3125481	0.62814	-5.685113
HMGCS2	0.1036154	6.9642087	1.0683909	0.3125574	0.62814	-5.685135
GRK2	0.1040258	11.341593	1.0683516	0.3125743	0.62814	-5.685175
MTERF3	0.0784693	10.47804	1.0681322	0.3126681	0.62814	-5.685397
ETV2	-0.076177	7.0151921	-1.068091	0.3126856	0.62814	-5.685438
ZNF485	0.0690024	7.5117745	1.0680902	0.3126861	0.62814	-5.685439
NDUFA13	-0.113723	10.453946	-1.068053	0.3127021	0.62814	-5.685477
TBC1D32	-0.104103	7.6645514	-1.06803	0.3127119	0.62814	-5.6855
AMOTL2	-0.101521	7.1663973	-1.067772	0.312822	0.62819	-5.68576
DNTT	-0.102714	6.899926	-1.067766	0.3128249	0.62819	-5.685767
ASPG	-0.085758	6.9561493	-1.066956	0.3131716	0.6288	-5.686586
C2CD2L	0.0662972	6.8404325	1.0665417	0.3133491	0.62907	-5.687004
IGHG1	-0.093799	7.2180646	-1.066277	0.3134625	0.62914	-5.687271
MCOLN2	0.1626065	11.664235	1.0661673	0.3135096	0.62914	-5.687382
TMEM38B	-0.099635	8.1864323	-1.066158	0.3135137	0.62914	-5.687392
SLC35D1	-0.076634	7.0242745	-1.066001	0.313581	0.62919	-5.687551
RNASEH2A	-0.089075	9.1788202	-1.065597	0.3137541	0.62944	-5.687958
ABCC5	-0.087482	8.084562	-1.065511	0.313791	0.62944	-5.688045
PPIG	0.0737652	7.7422581	1.0652173	0.313917	0.62957	-5.688341
ATG13	-0.072872	6.9867586	-1.065152	0.3139451	0.62957	-5.688407
ENOX1	0.0764232	6.8716774	1.0650242	0.3139999	0.6296	-5.688536
CALML4	-0.066624	7.7878355	-1.06489	0.3140575	0.62961	-5.688672
PRICKLE4	0.172813	12.190726	1.0647906	0.3141002	0.62961	-5.688772
MAGEA4	0.0720863	6.8573884	1.0647024	0.314138	0.62961	-5.688861
GALNT10	0.0694766	7.4508027	1.0643744	0.3142789	0.62981	-5.689192
CXorf23	0.0667393	6.9740101	1.0642686	0.3143243	0.62981	-5.689298
RAD21L1	-0.066426	7.0462543	-1.064168	0.3143675	0.62981	-5.6894
ALX1	0.0741167	6.9740582	1.063821	0.3145167	0.62992	-5.68975

FRG2	0.0794038	6.8904552	1.0638038	0.314524	0.62992	-5.689767
NARS	-0.172465	11.422578	-1.063721	0.3145598	0.62992	-5.689851
PRTN3	-0.070039	6.9306205	-1.063647	0.3145913	0.62992	-5.689925
MYD88	0.0996692	8.3764359	1.0635174	0.3146472	0.62992	-5.690056
H2AFY2	0.0809379	7.0515308	1.0634468	0.3146775	0.62992	-5.690127
CLEC3B	0.0763524	7.0212421	1.0631882	0.3147887	0.63005	-5.690388
LOC729451	-0.097309	6.9243115	-1.062911	0.3149079	0.63008	-5.690667
CD63	-0.075396	9.0275169	-1.062484	0.3150915	0.63008	-5.691097
HACD1	0.0766215	6.7594594	1.0624467	0.3151077	0.63008	-5.691134
ZBED6CL	0.0803688	7.0416709	1.0624348	0.3151128	0.63008	-5.691147
CCDC117	0.0673491	8.2821569	1.0624105	0.3151233	0.63008	-5.691171
IL5	0.0814813	6.8743887	1.0624079	0.3151244	0.63008	-5.691174
GGNBP2	0.0901785	9.2427716	1.0623958	0.3151296	0.63008	-5.691186
MRPL32	-0.154648	11.337358	-1.06228	0.3151793	0.63008	-5.691302
PMS2CL	-0.071366	7.4124449	-1.062024	0.3152894	0.63008	-5.69156
ANKRD50	-0.075389	6.7710878	-1.061929	0.3153307	0.63008	-5.691656
C6orf89	0.0765224	7.4473495	1.061827	0.3153745	0.63008	-5.691759
ATOX1	-0.083164	11.198905	-1.061647	0.3154518	0.63008	-5.691939
FBXW5	-0.084636	7.5126792	-1.061582	0.3154798	0.63008	-5.692005
RACGAP1	0.1087072	8.5822548	1.0615215	0.3155061	0.63008	-5.692066
PPP1R3A	0.0695304	6.8494585	1.0615206	0.3155064	0.63008	-5.692067
VAV1	-0.091131	7.9658881	-1.061509	0.3155115	0.63008	-5.692079
ZNF134	0.0762689	6.8312873	1.0613748	0.3155693	0.63008	-5.692214
TM2D3	0.0711175	8.2802767	1.061351	0.3155795	0.63008	-5.692238
RALGAPB	0.0755848	7.6789403	1.0611619	0.315661	0.63016	-5.692428
NPTXR	-0.075257	6.7562028	-1.060684	0.3158671	0.63045	-5.692909
ZNF780B	-0.087247	6.883902	-1.060616	0.3158963	0.63045	-5.692977
ACO1	0.0716729	10.449721	1.0604268	0.3159779	0.63045	-5.693167
XIST	0.0964634	7.4537993	1.0603753	0.3160001	0.63045	-5.693219
MORC3	-0.085121	7.7311708	-1.060151	0.316097	0.63045	-5.693445
IDH3B	0.0802379	9.7354134	1.0601275	0.316107	0.63045	-5.693468
UNC13D	-0.078384	6.9022122	-1.060046	0.316142	0.63045	-5.69355
GAS7	-0.08498	6.9189445	-1.060024	0.3161517	0.63045	-5.693572
COQ2	0.0801668	9.6769397	1.0596532	0.3163117	0.63061	-5.693945
AMY2B	0.1072473	6.8309692	1.0596364	0.3163189	0.63061	-5.693962
THOC6	0.1168127	8.3028789	1.0595053	0.3163755	0.63063	-5.694094
ZNF292	-0.062747	6.9279586	-1.059106	0.3165478	0.63089	-5.694495
PAQR6	0.0704551	6.9068215	1.0589512	0.3166148	0.63094	-5.69465
PHYH	-0.075241	6.9893992	-1.058523	0.3167997	0.63122	-5.69508
CTSW	-0.070858	6.9013324	-1.057506	0.3172397	0.63165	-5.696102
INF2	0.0695615	8.3498269	1.0574252	0.3172745	0.63165	-5.696183
TGS1	-0.149434	7.8841031	-1.057398	0.3172864	0.63165	-5.69621
SATL1	-0.081699	6.8987935	-1.057392	0.3172889	0.63165	-5.696216
CCDC85C	-0.066476	6.8404265	-1.057387	0.3172912	0.63165	-5.696221
TRGV3	0.0626718	6.8909726	1.0573603	0.3173026	0.63165	-5.696248

MINDY1	-0.072816	7.5778851	-1.057319	0.3173204	0.63165	-5.696289
MMP21	0.1030305	6.909605	1.0568743	0.3175129	0.63188	-5.696735
TRNAU1AP	-0.105306	7.1336366	-1.056775	0.3175561	0.63188	-5.696835
SH3GLB2	0.106651	10.577884	1.0565331	0.3176606	0.63188	-5.697077
RAB27B	-0.081921	6.8666035	-1.056227	0.3177934	0.63188	-5.697385
CASTOR1	0.0802897	7.3657524	1.056191	0.3178088	0.63188	-5.69742
ZNF625	0.0859155	6.7971499	1.0561736	0.3178163	0.63188	-5.697438
GMEB1	0.1366183	7.7332219	1.0560137	0.3178856	0.63188	-5.697598
MOGS	0.1292892	7.6369111	1.056007	0.3178885	0.63188	-5.697605
JAM2	-0.095004	6.993539	-1.055966	0.3179061	0.63188	-5.697646
HIST1H4E	-0.163914	7.444904	-1.055919	0.3179267	0.63188	-5.697693
GPIHBP1	0.0856508	6.8159779	1.0558769	0.3179449	0.63188	-5.697735
MFSD6L	-0.084461	7.0930657	-1.055713	0.318016	0.63188	-5.6979
TCEAL8	-0.066673	6.7511542	-1.05571	0.318017	0.63188	-5.697902
ATMIN	0.0894765	7.467762	1.0556579	0.3180398	0.63188	-5.697955
RALA	0.1268369	10.955652	1.0553349	0.3181798	0.63191	-5.698278
HMGB1	-0.091431	8.2122411	-1.055264	0.3182103	0.63191	-5.698349
ANO6	0.0975491	7.2581636	1.0551714	0.3182507	0.63191	-5.698442
LRRC14	-0.134717	8.9776884	-1.055148	0.3182609	0.63191	-5.698466
ISCA1	-0.07335	8.8020475	-1.055123	0.3182717	0.63191	-5.698491
SUFU	0.1911185	7.0405172	1.0547673	0.318426	0.63213	-5.698847
SNX27	0.136953	10.089931	1.0546459	0.3184787	0.63215	-5.698969
NDUFS1	0.16349	7.7702893	1.0542121	0.3186669	0.63244	-5.699403
HR	-0.071163	6.9332258	-1.05385	0.3188243	0.63266	-5.699766
CTSH	0.1115832	10.706251	1.0534481	0.3189987	0.63287	-5.700168
LRP4	0.06984	6.8057227	1.0533288	0.3190506	0.63287	-5.700287
MAN2B2	-0.115672	8.9387811	-1.053154	0.3191266	0.63287	-5.700462
GATAD1	0.083224	7.2216225	1.0531432	0.3191312	0.63287	-5.700473
ZNF695	-0.070575	6.9672041	-1.053109	0.319146	0.63287	-5.700507
EYS	-0.103975	7.0724578	-1.05295	0.3192152	0.63287	-5.700666
TYK2	-0.139265	11.038694	-1.052915	0.3192305	0.63287	-5.700701
PANK3	0.0662047	7.4967574	1.0526999	0.3193239	0.63297	-5.700916
GAS6	-0.063275	6.7863293	-1.052561	0.3193844	0.633	-5.701055
PSMC3	-0.089471	10.496267	-1.051813	0.3197097	0.63349	-5.701803
USO1	0.1620302	10.165849	1.0517876	0.3197207	0.63349	-5.701828
TAS2R39	-0.068891	6.9362364	-1.051652	0.3197798	0.63353	-5.701963
GPR3	-0.074702	6.8392143	-1.051483	0.3198534	0.63359	-5.702133
WNK3	-0.097758	6.9514298	-1.051325	0.3199219	0.6336	-5.70229
MAP3K15	-0.098816	6.9902192	-1.051271	0.3199454	0.6336	-5.702344
H2AFY	0.0657383	9.6173109	1.0511205	0.3200111	0.63364	-5.702494
CHCHD2	-0.090368	13.301715	-1.050841	0.3201328	0.63371	-5.702773
FAM208A	0.0691883	7.4792344	1.0507507	0.3201722	0.63371	-5.702864
TYW1	0.0628559	8.216433	1.0506958	0.3201961	0.63371	-5.702919
TXNDC5	0.0896493	9.2356898	1.0506447	0.3202184	0.63371	-5.70297
TBX15	-0.101585	6.7864838	-1.050534	0.3202667	0.63372	-5.70308

KIAA1522	0.0754767	6.9516663	1.050343	0.3203499	0.63375	-5.703271
MAPKAPK3	-0.095899	10.86067	-1.050291	0.3203724	0.63375	-5.703322
NAT14	0.0778667	8.4003902	1.0500976	0.3204568	0.63383	-5.703516
PROK2	-0.116975	7.0488887	-1.049837	0.3205704	0.63383	-5.703776
MIR1277	-0.076268	6.9435288	-1.049642	0.3206554	0.63383	-5.70397
SHOX2	-0.064531	6.9450496	-1.049615	0.3206671	0.63383	-5.703997
DNPEP	0.0944178	8.7436901	1.0495108	0.3207127	0.63383	-5.704101
KIAA1549L	0.1110366	7.8813741	1.0494678	0.3207315	0.63383	-5.704144
SPHAR	0.0816645	6.8641965	1.0494055	0.3207587	0.63383	-5.704206
WDR81	0.1518306	7.6864323	1.0493053	0.3208024	0.63383	-5.704306
UBE2J1	-0.152242	11.729673	-1.04925	0.3208267	0.63383	-5.704362
PTRH1	0.0782303	8.06435	1.0492079	0.3208449	0.63383	-5.704403
ARMC7	0.0865919	7.8474743	1.0486527	0.3210872	0.63422	-5.704957
ZBTB34	-0.078186	7.5812413	-1.048531	0.3211404	0.63424	-5.705078
SLC22A7	0.0661957	6.9564848	1.0480799	0.3213374	0.63433	-5.705528
MTG2	0.0661331	6.9469912	1.048045	0.3213526	0.63433	-5.705563
SDS	-0.096989	6.9053029	-1.047906	0.3214132	0.63433	-5.705701
CELSR2	0.0723138	6.8081103	1.0478923	0.3214193	0.63433	-5.705715
ARNTL	-0.070554	6.7864306	-1.047756	0.3214788	0.63433	-5.70585
PHC1	0.0835172	7.9255211	1.0476689	0.321517	0.63433	-5.705937
SLC39A5	0.0927577	6.8646454	1.0475867	0.3215529	0.63433	-5.706019
BTC	-0.070554	6.7970966	-1.04754	0.3215732	0.63433	-5.706066
IRX1	0.0885004	8.0005691	1.0475359	0.3215751	0.63433	-5.70607
MADD	-0.067659	7.510517	-1.047256	0.3216976	0.63439	-5.706349
ZNF189	0.0823706	7.9975885	1.0471507	0.3217435	0.63439	-5.706454
CEP295	0.0761866	7.8687164	1.0471395	0.3217484	0.63439	-5.706465
GLTP	0.0914025	11.116237	1.0470689	0.3217793	0.63439	-5.706535
MBNL1-AS1	0.0973613	6.8248799	1.0468186	0.3218887	0.63446	-5.706784
NFATC3	0.0628228	7.3305708	1.0467539	0.3219171	0.63446	-5.706849
FNIP2	0.0788715	6.9915492	1.0466892	0.3219454	0.63446	-5.706913
LINC00969	-0.069529	6.9146594	-1.04647	0.3220415	0.63448	-5.707132
CECR6	-0.069675	6.8623466	-1.046467	0.3220425	0.63448	-5.707134
SUPT20H	0.0742506	7.3922601	1.0461679	0.3221735	0.63457	-5.707432
VASH1	-0.088152	6.8024119	-1.04616	0.3221771	0.63457	-5.70744
HIST1H2AI	-0.100653	6.9860846	-1.045982	0.3222548	0.63464	-5.707617
GLUD2	-0.099464	6.8783974	-1.045482	0.322474	0.63491	-5.708115
ZNF398	-0.066279	7.4564812	-1.045466	0.3224809	0.63491	-5.70813
SMIM15	-0.064476	6.8842926	-1.045311	0.3225486	0.63496	-5.708284
NFKBIA	0.1411727	12.396816	1.0449819	0.322693	0.63516	-5.708612
MIR98	-0.10334	7.2910127	-1.044629	0.3228478	0.63538	-5.708963
GUCY1B3	-0.083963	6.7988483	-1.044422	0.3229385	0.63547	-5.709168
TCHH	0.0782343	6.9263779	1.0442518	0.3230131	0.63553	-5.709337
PSMC4	0.1040409	9.3928817	1.0439428	0.3231487	0.63571	-5.709644
TMEM52B	-0.084349	6.7861852	-1.043743	0.3232363	0.6358	-5.709843
CIAPIN1	0.0696949	9.34796	1.0432942	0.3234333	0.63589	-5.710289

EOGT	-0.070306	7.0749112	-1.043262	0.3234475	0.63589	-5.710321
POU6F2-AS1	0.0619975	6.8754138	1.0431985	0.3234753	0.63589	-5.710384
GGACT	-0.067517	6.853918	-1.043192	0.3234781	0.63589	-5.71039
FAHD2B	-0.115627	9.9801524	-1.043141	0.3235007	0.63589	-5.710441
DUSP8	0.0895854	7.0815868	1.0427363	0.3236783	0.63615	-5.710843
SASS6	-0.077739	7.123728	-1.042624	0.3237278	0.63617	-5.710954
PPP4R3B	0.0870822	9.4891674	1.042131	0.3239443	0.63648	-5.711443
CFAP65	-0.100106	6.9013017	-1.042039	0.3239846	0.63648	-5.711534
IGFBPL1	0.0816565	7.0491267	1.0419606	0.3240192	0.63648	-5.711612
ZNF26	0.0667647	7.6715039	1.0416964	0.3241354	0.63654	-5.711874
SRSF4	0.1632118	11.316976	1.0416721	0.3241461	0.63654	-5.711898
SLC33A1	-0.069641	8.1695079	-1.041394	0.3242682	0.63654	-5.712174
SYNGR1	-0.061408	6.7611539	-1.041385	0.3242724	0.63654	-5.712183
PAWR	-0.132408	8.0056312	-1.041341	0.3242919	0.63654	-5.712227
TMEM161A	0.1076853	7.346588	1.0412771	0.3243198	0.63654	-5.71229
CLIC1	0.1092044	11.711324	1.0411967	0.3243552	0.63654	-5.71237
PHLDB3	0.1119921	7.1772688	1.0410323	0.3244275	0.6366	-5.712533
MIR221	-0.064956	6.837146	-1.040933	0.3244711	0.6366	-5.712631
MIR939	-0.092813	6.9749689	-1.04047	0.3246751	0.63682	-5.71309
SCCPDH	-0.071563	7.41395	-1.040457	0.324681	0.63682	-5.713103
CCDC191	-0.068261	6.9417067	-1.040378	0.3247157	0.63682	-5.713182
PTMS	-0.066695	6.7573959	-1.040275	0.3247608	0.63682	-5.713283
FAT1	-0.077636	6.829386	-1.040169	0.3248074	0.63683	-5.713388
SCAPER	0.0642215	7.0185535	1.039873	0.324938	0.63695	-5.713682
RLBP1	0.0639166	6.8862661	1.0398383	0.3249533	0.63695	-5.713716
NUAK2	0.0690008	7.170842	1.0395829	0.3250658	0.63698	-5.713969
SOX7	0.0639809	6.8496109	1.039479	0.3251116	0.63698	-5.714072
DNASE1L1	-0.076883	7.2202114	-1.039469	0.325116	0.63698	-5.714082
TONSL	0.0661683	7.1933786	1.0393999	0.3251465	0.63698	-5.71415
MYLPF	0.0740489	6.8343548	1.0391875	0.3252402	0.63707	-5.71436
RPS3A	-0.064421	13.671598	-1.03905	0.3253007	0.63707	-5.714496
AKAP8L	0.0868157	7.5695286	1.038975	0.3253338	0.63707	-5.714571
LOC100128(	-0.108293	6.8931459	-1.038903	0.3253654	0.63707	-5.714642
PRKCE	-0.088688	7.4199781	-1.038573	0.3255114	0.6372	-5.714969
SELENON	0.0650241	6.8176349	1.0385485	0.325522	0.6372	-5.714993
PTTG1	0.0651466	11.345836	1.0383778	0.3255973	0.63727	-5.715162
RB1CC1	0.0865588	9.1142697	1.0379495	0.3257863	0.63755	-5.715585
CLCN3	-0.076292	7.7182703	-1.037689	0.3259013	0.63769	-5.715843
MICU2	-0.080241	9.8970439	-1.037223	0.3261072	0.63801	-5.716304
OTULIN	-0.065236	9.588736	-1.03662	0.3263738	0.63833	-5.7169
GGCT	0.0826181	9.8500732	1.0365907	0.3263866	0.63833	-5.716929
BNC2	-0.071104	6.8212169	-1.036524	0.3264163	0.63833	-5.716995
PIP5K1A	0.0765574	7.192088	1.0364525	0.3264477	0.63833	-5.717065
CARMIL2	0.1014736	7.7499849	1.03623	0.3265461	0.63844	-5.717285
VAMP3	0.0819524	9.229474	1.0361108	0.3265988	0.63846	-5.717403

EPS8L2	0.0787874	6.8417195	1.0355259	0.3268577	0.63883	-5.71798
SDCCAG8	-0.088202	7.1390854	-1.035338	0.3269406	0.63883	-5.718165
MEPCE	0.0913321	8.6306778	1.0353024	0.3269566	0.63883	-5.718201
VEGFA	-0.085913	7.3217615	-1.035281	0.3269658	0.63883	-5.718222
ABCB9	-0.067895	7.3438419	-1.035088	0.3270516	0.63891	-5.718413
FADS2	-0.079626	6.9219018	-1.034747	0.3272024	0.63894	-5.718749
THEM4	-0.082864	7.1699992	-1.034729	0.3272105	0.63894	-5.718767
GLE1	-0.06573	9.2258747	-1.034715	0.3272167	0.63894	-5.718781
TRIP4	0.0850951	8.5332689	1.0346634	0.3272395	0.63894	-5.718831
GPR179	-0.066579	6.8434505	-1.034507	0.3273087	0.63899	-5.718986
TRIM65	0.0810351	7.5113581	1.0341623	0.3274616	0.63915	-5.719326
TTC23	0.076456	7.2756473	1.0341047	0.3274871	0.63915	-5.719383
2-Mar	0.0698492	7.2244913	1.0340269	0.3275216	0.63915	-5.719459
ARHGEF10	-0.07396	6.8734812	-1.033437	0.327783	0.63947	-5.72004
USP38	0.1413668	9.1950817	1.0334206	0.3277904	0.63947	-5.720057
TMED2	0.1073556	10.968015	1.0333554	0.3278193	0.63947	-5.720121
PSMB9	0.091192	8.9846375	1.0331483	0.3279112	0.63954	-5.720325
PTTG3P	-0.119544	10.658927	-1.032979	0.3279864	0.63954	-5.720492
GPR27	-0.061641	6.9251984	-1.032882	0.3280292	0.63954	-5.720587
NEURL1B	-0.079581	7.5572262	-1.032877	0.3280317	0.63954	-5.720593
RNASE2	0.0630791	6.8030441	1.0327243	0.3280993	0.63959	-5.720743
HMX2	0.0708225	6.8209047	1.0318506	0.3284873	0.64026	-5.721604
MAP7D3	-0.126926	7.3317682	-1.031376	0.328698	0.64051	-5.72207
NXF3	-0.079916	6.8567554	-1.031318	0.3287239	0.64051	-5.722128
ADRA2A	0.0793243	7.3856132	1.0312629	0.3287485	0.64051	-5.722182
CCDC127	-0.07849	7.6656099	-1.031134	0.3288057	0.64054	-5.722309
HMOX2	0.0920611	6.9997326	1.0309533	0.3288861	0.64054	-5.722487
SUMO1P1	-0.066543	6.8103542	-1.030938	0.3288931	0.64054	-5.722502
FAM57A	0.1186989	8.5832706	1.030795	0.3289565	0.64058	-5.722642
TLCD1	-0.092035	8.6791626	-1.030199	0.3292218	0.64101	-5.723229
SKP2	0.0785783	9.0079734	1.0298932	0.3293578	0.64107	-5.723529
ROPN1L	0.0794121	6.9239496	1.0298731	0.3293667	0.64107	-5.723549
SIRPD	0.0801497	6.9365158	1.0298052	0.3293969	0.64107	-5.723616
CCHCR1	0.0954052	7.1537588	1.0297339	0.3294287	0.64107	-5.723686
MTA2	0.0823323	8.9470112	1.0291724	0.3296787	0.64147	-5.724237
MINCR	0.091372	7.1829138	1.028887	0.3298059	0.64163	-5.724518
PPP1R3D	-0.072444	6.8969535	-1.028641	0.3299154	0.64176	-5.724759
PTS	-0.092866	10.052598	-1.028437	0.3300064	0.64185	-5.72496
PSMA7	-0.08228	7.0064173	-1.028311	0.3300625	0.64187	-5.725083
ZNF296	0.0802083	10.580567	1.0281193	0.3301481	0.64195	-5.725272
SNORD4B	-0.07389	7.1731844	-1.027987	0.330207	0.64197	-5.725401
FZD2	-0.083441	7.0490752	-1.027901	0.3302455	0.64197	-5.725486
RAB3B	-0.080134	6.8452303	-1.027403	0.3304678	0.64232	-5.725975
MEF2A	0.0645808	7.4919632	1.0272194	0.3305496	0.64239	-5.726155
ABCD1	-0.069477	6.70605	-1.027074	0.3306147	0.64241	-5.726298

PAPSS1	-0.102657	9.1178669	-1.026976	0.3306584	0.64241	-5.726394
DARS2	-0.124369	9.7097203	-1.02691	0.3306878	0.64241	-5.726459
TFAP4	0.0728887	7.6783311	1.0264195	0.3309068	0.64274	-5.726939
VIPR1	-0.090032	7.0020298	-1.026028	0.3310816	0.64292	-5.727323
MVK	0.0981719	7.908692	1.0260187	0.3310858	0.64292	-5.727332
UBE2E3	0.0709038	7.6857169	1.0257798	0.3311926	0.64296	-5.727566
ABCA6	0.0835802	7.4296437	1.0257052	0.331226	0.64296	-5.727639
PANK4	0.0930916	7.8094025	1.025682	0.3312364	0.64296	-5.727662
TRAPPC12	0.0927817	8.9110589	1.0255639	0.3312891	0.64297	-5.727778
RNF126	-0.068764	8.850849	-1.025147	0.3314757	0.64325	-5.728186
PTPRN2	-0.074104	6.808916	-1.02496	0.3315591	0.64333	-5.728369
PRAME	-0.083164	6.8517698	-1.02427	0.3318683	0.64384	-5.729045
CDC42EP5	0.0731105	6.8270548	1.0236584	0.332142	0.64423	-5.729643
TRIM51EP	-0.098526	7.0089831	-1.023616	0.3321611	0.64423	-5.729685
KDM4B	0.1155578	7.2725014	1.0235316	0.3321988	0.64423	-5.729767
EML5	-0.062683	6.9973208	-1.023233	0.3323325	0.64426	-5.730059
LPL	-0.095329	6.8429832	-1.023127	0.3323799	0.64426	-5.730163
ST8SIA5	0.0708203	6.8470021	1.0230978	0.3323932	0.64426	-5.730192
MGAT3	0.1297749	8.6807277	1.0229674	0.3324516	0.64426	-5.730319
CSNK1E	0.0697263	9.1049507	1.0228663	0.3324969	0.64426	-5.730418
MANSC1	-0.08671	6.8490077	-1.022747	0.3325506	0.64426	-5.730535
UBE2N	0.0829633	10.648235	1.0226408	0.3325981	0.64426	-5.730639
YIPF4	0.0736155	8.7867416	1.0225434	0.3326418	0.64426	-5.730734
MRPS11	-0.088615	10.553959	-1.022421	0.3326965	0.64426	-5.730853
ZNF133	0.0720592	7.6323999	1.0224211	0.3326966	0.64426	-5.730853
UGP2	-0.060406	8.0758388	-1.022372	0.3327187	0.64426	-5.730902
ZFP14	-0.075548	6.9111376	-1.022307	0.3327477	0.64426	-5.730965
LZIC	0.0962202	8.2383198	1.0221529	0.3328169	0.64431	-5.731115
DCAF13	-0.130271	8.7488048	-1.021931	0.3329165	0.64442	-5.731332
TNFSF11	0.1194855	7.0586913	1.0216771	0.3330304	0.64449	-5.73158
ROM1	0.0635154	7.6869919	1.0216513	0.333042	0.64449	-5.731605
IL5RA	-0.085278	7.3964417	-1.021392	0.3331585	0.64463	-5.731859
DHX9	0.0747173	8.4636305	1.0211805	0.3332534	0.64473	-5.732065
SREBF2	0.0933884	7.085038	1.0209714	0.3333473	0.64476	-5.732269
SERPINB2	-0.063273	6.8902475	-1.020951	0.3333563	0.64476	-5.732289
ELF4	0.0946624	8.3088858	1.0202395	0.3336763	0.64516	-5.732984
ATP1A3	-0.090702	7.0843844	-1.02022	0.3336851	0.64516	-5.733003
FAM153A	-0.069153	7.1777227	-1.020188	0.3336993	0.64516	-5.733034
TMSB15A	0.0640288	6.6756329	1.0199595	0.3338021	0.64528	-5.733257
MSH5	-0.068733	7.1602235	-1.019569	0.3339777	0.6455	-5.733638
EEF1AKMT3	-0.094906	8.0276554	-1.0195	0.3340086	0.6455	-5.733705
ALKBH2	0.0782626	8.7313442	1.0194059	0.3340511	0.6455	-5.733797
FYN	0.0698703	7.8113843	1.0192568	0.3341182	0.64555	-5.733942
CPD	0.0870096	7.3403408	1.0186729	0.3343811	0.64591	-5.734512
ENTPD4	0.0861743	7.3884609	1.0186406	0.3343956	0.64591	-5.734543

DIRAS1	0.0713117	6.8253007	1.0184352	0.3344881	0.646	-5.734743
BAK1	0.0838004	7.713165	1.0182603	0.3345669	0.64607	-5.734913
GPHB5	-0.069421	6.8951981	-1.018113	0.3346334	0.64611	-5.735057
MIR875	-0.070857	6.8194303	-1.017737	0.3348027	0.64636	-5.735423
CORO6	-0.061866	6.8061166	-1.017622	0.3348546	0.64637	-5.735535
CEP78	0.0693896	8.6660121	1.0173723	0.3349671	0.64643	-5.735778
ETHE1	-0.067768	6.8532608	-1.017286	0.3350062	0.64643	-5.735863
HSPA8	0.0734508	13.597726	1.0172557	0.3350196	0.64643	-5.735892
POLR3E	0.0722481	9.5848568	1.0170017	0.3351342	0.64657	-5.736139
SLC9A1	0.0753347	9.5230252	1.0166371	0.3352986	0.64673	-5.736494
USP15	-0.069902	7.5885638	-1.016615	0.3353088	0.64673	-5.736516
WDR59	0.0661082	9.5261586	1.0163993	0.3354059	0.64684	-5.736725
CELF6	-0.071712	6.9092654	-1.016248	0.3354744	0.64688	-5.736873
RAB1B	-0.08191	7.5164739	-1.015968	0.3356007	0.64704	-5.737145
IL17RA	0.0681806	7.1188504	1.0155455	0.3357914	0.64732	-5.737556
SCAP	-0.11109	10.39782	-1.015273	0.3359145	0.64747	-5.73782
CBR4	0.0732928	8.7207751	1.0150344	0.3360224	0.6476	-5.738052
UNC5C	-0.069286	6.9909423	-1.014663	0.3361901	0.64783	-5.738413
KBTBD2	0.1287706	9.099179	1.0144646	0.33628	0.64786	-5.738606
DCPS	0.0997399	9.1486688	1.0142639	0.3363707	0.64786	-5.738801
EIF5A2	0.0767982	6.8333457	1.0142621	0.3363715	0.64786	-5.738803
RAE1	-0.065	9.0994984	-1.014207	0.3363963	0.64786	-5.738856
HSD17B10	0.0758661	9.4853691	1.0141444	0.3364247	0.64786	-5.738917
TNFRSF12A	-0.072433	6.97968	-1.013819	0.3365718	0.64797	-5.739233
TBC1D12	0.0756133	7.1224193	1.0138175	0.3365726	0.64797	-5.739235
NPFFR2	0.0974424	6.97239	1.0135507	0.3366934	0.64812	-5.739493
ZNF630	-0.100062	7.129831	-1.013329	0.3367938	0.64823	-5.739709
ACAP1	0.100973	8.5216407	1.0129856	0.3369492	0.64827	-5.740042
FNIP1	-0.10337	8.094445	-1.012982	0.3369509	0.64827	-5.740046
SNORA24	-0.083255	8.578619	-1.0129	0.336988	0.64827	-5.740125
CYGB	0.0800267	6.9580104	1.0128886	0.3369931	0.64827	-5.740136
FAHD1	-0.088889	8.9782231	-1.012583	0.3371318	0.64845	-5.740433
HERC2P9	0.0666652	6.824241	1.0123443	0.3372397	0.64857	-5.740664
ZSCAN5A	-0.094989	8.3344728	-1.012197	0.3373063	0.64861	-5.740806
USP30	-0.082408	7.065043	-1.012091	0.3373544	0.64862	-5.740909
DGKQ	0.0723088	7.5185075	1.0117308	0.3375178	0.64867	-5.741259
WHAMM	0.0707439	7.4595684	1.0117268	0.3375196	0.64867	-5.741263
CNRIP1	-0.061758	6.8050651	-1.011674	0.3375435	0.64867	-5.741314
EMX1	0.0730129	6.8087249	1.0116441	0.3375572	0.64867	-5.741343
GSTM1	-0.068423	7.358414	-1.011472	0.3376354	0.64873	-5.74151
LSMEM1	0.0732286	6.9854805	1.0111451	0.3377835	0.64893	-5.741826
COX8A	0.1195428	12.788755	1.0110288	0.3378363	0.64895	-5.741939
ZNF454	0.0692394	6.8947745	1.0104002	0.3381216	0.64935	-5.742548
FTH1P7	0.0731987	9.9762882	1.0103537	0.3381427	0.64935	-5.742593
C1GALT1C1l	-0.068202	6.7942369	-1.010238	0.3381953	0.64935	-5.742705

SCRN2	-0.069222	6.9070598	-1.01018	0.3382214	0.64935	-5.742761
SLC35B2	0.141068	9.0524298	1.0098116	0.3383889	0.64938	-5.743118
DPF1	0.0857292	7.2017507	1.0097794	0.3384035	0.64938	-5.743149
GSKIP	-0.0663	8.1152913	-1.009706	0.3384371	0.64938	-5.74322
SIX1	0.0937495	7.0430135	1.0096981	0.3384405	0.64938	-5.743228
SOCS6	-0.091032	6.9636416	-1.009554	0.3385059	0.64938	-5.743367
PEX13	0.0913962	7.7408821	1.0095129	0.3385246	0.64938	-5.743407
SERF1A	-0.068609	7.5711225	-1.009364	0.3385923	0.64938	-5.743551
PILRA	-0.097385	7.2858767	-1.009329	0.3386081	0.64938	-5.743585
SART3	0.0607466	7.6317096	1.0092628	0.3386383	0.64938	-5.743649
VPS25	0.0806502	9.047345	1.0084605	0.3390031	0.64993	-5.744425
HEMK1	-0.096742	7.0377986	-1.008435	0.3390149	0.64993	-5.74445
FAM220A	-0.067016	8.3479437	-1.007891	0.3392625	0.65032	-5.744976
PAQR8	-0.077094	7.8216005	-1.007688	0.3393545	0.65037	-5.745171
SAE1	0.0661508	12.722098	1.0076347	0.339379	0.65037	-5.745223
ADAMTSL2	-0.069804	6.7573716	-1.007073	0.339635	0.6507	-5.745766
RBM14	-0.079057	11.042094	-1.007045	0.3396475	0.6507	-5.745792
KIF21A	-0.068669	7.035493	-1.006852	0.3397356	0.6507	-5.745979
C5AR1	0.0707184	6.9259619	1.006711	0.3397997	0.6507	-5.746115
PTPRF	0.0599993	6.8109114	1.0066574	0.3398242	0.6507	-5.746167
GRB2	0.1152504	8.8241802	1.0065848	0.3398573	0.6507	-5.746237
NRBP1	-0.078577	7.336624	-1.006572	0.339863	0.6507	-5.746249
MSL3	-0.064611	7.8215026	-1.006251	0.3400096	0.6509	-5.746559
HPRT1	-0.102094	11.461477	-1.00612	0.3400693	0.65091	-5.746686
PTPDC1	0.0594582	6.944551	1.0059861	0.3401302	0.65091	-5.746815
HNRNPA3	0.0798375	10.344327	1.0059373	0.3401525	0.65091	-5.746862
ZSCAN18	-0.077837	7.5010498	-1.005751	0.3402374	0.65099	-5.747041
HELB	-0.060393	6.8594165	-1.004493	0.3408117	0.65168	-5.748255
DTX2	-0.079248	8.2990273	-1.004441	0.3408353	0.65168	-5.748304
CLPTM1L	0.1078583	10.16392	1.00443	0.3408405	0.65168	-5.748315
PCBP1	0.0717239	12.599862	1.0043355	0.3408836	0.65168	-5.748406
ABHD8	-0.070468	7.6026816	-1.004308	0.3408962	0.65168	-5.748433
PNKP	-0.102713	9.1544203	-1.004211	0.3409404	0.65168	-5.748526
DLX6-AS1	0.0653892	6.7987975	1.0041232	0.3409806	0.65168	-5.748611
ADAT3	0.0944831	7.1402831	1.0041024	0.3409901	0.65168	-5.748631
NOXA1	-0.076812	6.8706212	-1.004088	0.3409967	0.65168	-5.748645
ZNF17	-0.080246	8.0359421	-1.003821	0.3411188	0.65179	-5.748902
RAPGEF5	0.1062502	8.6135115	1.0037071	0.3411708	0.65179	-5.749012
EMC3	-0.093826	10.391009	-1.003518	0.341257	0.65179	-5.749194
MRPL4	0.0922213	9.0968962	1.0034828	0.3412733	0.65179	-5.749228
DZIP1L	-0.06669	6.9844583	-1.003464	0.3412821	0.65179	-5.749246
CSNK1D	-0.064347	8.4328535	-1.00308	0.3414576	0.65203	-5.749616
CELF1	0.0937222	8.0970223	1.0029957	0.3414961	0.65203	-5.749697
CDC37	-0.118388	12.953661	-1.002817	0.341578	0.65203	-5.749869
EIF2B2	-0.074813	10.128756	-1.002803	0.3415843	0.65203	-5.749882

ZMYND11	-0.072337	6.8121819	-1.002699	0.3416316	0.65204	-5.749982
KCNV2	-0.065128	6.8445781	-1.00198	0.3419609	0.65254	-5.750674
PABPN1	0.13889	10.341766	1.001927	0.3419852	0.65254	-5.750725
LINC00926	-0.078549	7.9780883	-1.001817	0.3420355	0.65255	-5.750831
ERICH4	-0.085127	6.850981	-1.001626	0.3421229	0.65259	-5.751014
RFC1	0.102157	8.6157828	1.0015784	0.3421449	0.65259	-5.751061
TMEM189	-0.08322	8.1934963	-1.001233	0.3423033	0.65265	-5.751393
LCP1	-0.111398	13.999819	-1.001223	0.3423076	0.65265	-5.751402
CTSF	-0.070607	7.0053684	-1.001215	0.3423113	0.65265	-5.75141
PDCD11	0.1293982	7.2193895	1.0010553	0.3423846	0.6527	-5.751563
CITED4	-0.069868	6.8627148	-1.000439	0.3426671	0.65316	-5.752156
ODF3B	-0.065327	6.8896302	-1.00001	0.3428639	0.65345	-5.752568
HNRNPA1L2	0.0722529	7.5113368	0.9994601	0.3431163	0.65384	-5.753096
NUDT4P1	0.0722814	6.8405365	0.999308	0.3431861	0.65389	-5.753242
RRP1	0.0682514	7.6333578	0.9989774	0.3433379	0.65409	-5.753559
GLIPR2	-0.066752	6.7615162	-0.998847	0.3433978	0.6541	-5.753684
MSANTD2	-0.074075	7.3448177	-0.998565	0.3435275	0.6541	-5.753955
CLIP4	-0.09335	7.392008	-0.998519	0.3435484	0.6541	-5.753999
ATP5L	-0.104099	11.596185	-0.998507	0.3435542	0.6541	-5.754011
CYSRT1	-0.115788	7.2530923	-0.998486	0.3435636	0.6541	-5.75403
MRPS2	0.1282402	9.5386113	0.9982733	0.3436614	0.6542	-5.754235
ARSA	-0.070416	7.349786	-0.997915	0.343826	0.65443	-5.754578
CAMK2D	0.0693657	7.1402559	0.9976283	0.3439579	0.65459	-5.754853
SNUPN	0.1022404	9.3176705	0.9974792	0.3440265	0.65459	-5.754996
LRP3	-0.068562	6.7115948	-0.997436	0.3440463	0.65459	-5.755037
C14orf2	-0.077247	10.917409	-0.997078	0.344211	0.65482	-5.75538
ZNF236	0.0941723	7.0484304	0.9968408	0.3443203	0.65494	-5.755608
MBLAC2	-0.083766	7.5752738	-0.995631	0.3448773	0.65591	-5.756766
BCL2L13	-0.06093	10.415521	-0.99494	0.3451961	0.65633	-5.757427
DNTTIP1	-0.095964	9.1897484	-0.994925	0.3452029	0.65633	-5.757441
RIMKLA	-0.059268	7.2007137	-0.994865	0.3452307	0.65633	-5.757499
NXPE3	0.0654166	6.8896346	0.9946995	0.3453069	0.65637	-5.757657
CAPN7	-0.095564	8.1512881	-0.994612	0.3453471	0.65637	-5.75774
PCDHGC3	0.0666516	7.0028516	0.9945274	0.3453863	0.65637	-5.757822
ATP8B1	-0.067631	6.8019921	-0.994289	0.3454964	0.65649	-5.75805
PURA	0.0762569	7.4894504	0.9941909	0.3455415	0.65649	-5.758143
SULT1A1	-0.070863	8.1330683	-0.993986	0.345636	0.65659	-5.758339
PSMD6-AS2	0.077502	6.9941845	0.9937238	0.3457571	0.65659	-5.75859
POLR2C	0.0691007	9.4048893	0.9936366	0.3457974	0.65659	-5.758673
C18orf25	0.0653574	9.810415	0.9936215	0.3458044	0.65659	-5.758688
CRACR2A	0.0667503	6.8780549	0.9935307	0.3458463	0.65659	-5.758774
DYRK4	-0.094014	9.8681052	-0.993413	0.3459007	0.65659	-5.758887
RPS6KC1	-0.085212	7.2268013	-0.993294	0.3459555	0.65659	-5.759
ODF2L	-0.070109	7.2168428	-0.993228	0.345986	0.65659	-5.759063
KIF1C	-0.070055	7.5976427	-0.993205	0.3459965	0.65659	-5.759085

AZU1	0.1085165	7.0060589	0.992665	0.3462462	0.65682	-5.759601
CD180	0.0792248	7.0564797	0.9926082	0.3462725	0.65682	-5.759655
CHUK	0.0758744	9.6131806	0.9925825	0.3462844	0.65682	-5.75968
KANK4	-0.061552	6.9506993	-0.992555	0.3462972	0.65682	-5.759706
MOAP1	0.0969148	8.6016579	0.9923189	0.3464062	0.65694	-5.759932
CHM	-0.064763	7.5851329	-0.991926	0.3465877	0.65698	-5.760306
ZNF646	-0.086649	6.9259739	-0.991911	0.3465946	0.65698	-5.76032
LINC00324	-0.067987	6.9424175	-0.991824	0.3466353	0.65698	-5.760404
PLGLB1	-0.071093	6.8218219	-0.991786	0.3466528	0.65698	-5.76044
ANKRD20A1	0.0650363	7.0047742	0.9916032	0.3467372	0.65698	-5.760614
DUSP28	-0.06209	8.8547043	-0.991548	0.3467628	0.65698	-5.760667
TET3	0.0611455	6.8922046	0.9915164	0.3467774	0.65698	-5.760697
GOLGA8IP	-0.063546	6.8764306	-0.991497	0.3467862	0.65698	-5.760715
ZC2HC1A	0.0834635	7.4887478	0.9912031	0.3469224	0.65715	-5.760996
MERTK	-0.074846	7.0157976	-0.990913	0.3470565	0.65727	-5.761272
HMGCL	-0.096506	7.9864663	-0.990681	0.3471639	0.65727	-5.761494
CKLF	-0.074091	10.004005	-0.990502	0.3472469	0.65727	-5.761664
GDI1	0.084878	8.0002014	0.990385	0.3473012	0.65727	-5.761776
THAP7	-0.082302	7.4476516	-0.99037	0.3473079	0.65727	-5.76179
DPH2	-0.072128	8.5999929	-0.990227	0.3473742	0.65727	-5.761926
PTGFRN	0.0752649	6.8140978	0.9901149	0.3474263	0.65727	-5.762033
GPR143	0.0777892	6.9474066	0.9899889	0.3474847	0.65727	-5.762153
ARSB	-0.063875	7.5013039	-0.989894	0.3475288	0.65727	-5.762244
TWF1	-0.063964	7.1982567	-0.989761	0.3475905	0.65727	-5.762371
JHDM1D-AS	0.0674893	7.0067967	0.9897598	0.3475909	0.65727	-5.762372
FBXO9	0.0674865	6.9968304	0.9896944	0.3476212	0.65727	-5.762434
KHK	0.0658833	7.3269543	0.9896365	0.3476481	0.65727	-5.762489
SLC25A43	-0.071139	8.7247666	-0.989547	0.3476894	0.65727	-5.762574
UCA1	-0.068527	6.9161083	-0.989513	0.3477055	0.65727	-5.762607
MRPS35	-0.082704	10.461582	-0.989512	0.3477056	0.65727	-5.762607
MIR199B	0.1051667	7.0922573	0.9893985	0.3477584	0.65728	-5.762716
HMGN5	-0.070317	7.1687386	-0.989288	0.3478097	0.65729	-5.762821
RSPH1	-0.083799	7.6026534	-0.989174	0.3478624	0.65731	-5.762929
GNA14	0.0642124	6.8609093	0.9889565	0.3479634	0.65741	-5.763137
ELL2	0.0819486	6.7651734	0.988826	0.3480239	0.65744	-5.763261
HS3ST3A1	-0.091739	6.963579	-0.988718	0.348074	0.65744	-5.763364
YRDC	0.095746	10.92371	0.9886305	0.3481146	0.65744	-5.763447
CYP26A1	0.0632034	6.8617111	0.9879924	0.3484108	0.65786	-5.764054
GCM2	0.0705977	6.8345125	0.987966	0.3484231	0.65786	-5.764079
TARS2	0.140575	8.2783345	0.9878072	0.3484968	0.65788	-5.76423
STYX	0.0769068	7.0445578	0.9877432	0.3485265	0.65788	-5.764291
RPL17P39	-0.076562	14.084238	-0.986943	0.3488985	0.6585	-5.765052
LINC00273	-0.072746	6.92107	-0.986815	0.3489578	0.6585	-5.765173
MRPL41	-0.089239	10.517318	-0.98674	0.3489927	0.6585	-5.765244
CRYM	0.0656966	7.0013467	0.986651	0.3490341	0.6585	-5.765329

DUSP23	-0.077306	6.8602028	-0.986317	0.3491895	0.65871	-5.765647
HSPG2	0.063258	6.8263066	0.9854101	0.3496114	0.65938	-5.766508
CNOT2	0.0854798	10.013022	0.9853191	0.3496537	0.65938	-5.766594
AMY1B	0.0820532	9.322136	0.9852596	0.3496814	0.65938	-5.76665
KRT76	0.0751592	6.8623615	0.98509	0.3497604	0.65944	-5.766811
TMEM248	0.0724322	8.2807562	0.9847516	0.349918	0.65966	-5.767132
MLST8	0.1174243	8.5653001	0.984436	0.3500651	0.65985	-5.767432
CD70	0.0907923	11.822595	0.9836999	0.3504082	0.66034	-5.76813
IGSF3	0.0604975	6.7863702	0.9836418	0.3504353	0.66034	-5.768185
MED29	-0.077982	8.5979219	-0.983557	0.3504747	0.66034	-5.768265
DOT1L	0.0890054	7.4395222	0.9834925	0.3505049	0.66034	-5.768326
SLC4A1AP	0.0674451	7.8865294	0.9833573	0.350568	0.66037	-5.768454
SDHAP3	-0.067194	7.0200771	-0.983241	0.350622	0.66039	-5.768564
DLD	0.1009077	10.018468	0.9827485	0.350852	0.66072	-5.769031
MRPS24	-0.080062	11.323081	-0.982594	0.3509242	0.66072	-5.769178
HIC2	0.0720266	8.4453166	0.9825723	0.3509343	0.66072	-5.769198
C21orf59	0.0642354	8.6992539	0.9823574	0.3510346	0.66076	-5.769401
IFT46	-0.067296	8.0305866	-0.982299	0.3510617	0.66076	-5.769456
CPSF3	0.0913481	11.10422	0.9821678	0.3511231	0.66076	-5.769581
HESX1	-0.066077	7.0061898	-0.982024	0.3511905	0.66076	-5.769718
PHKG2	-0.079251	7.7650913	-0.981963	0.3512187	0.66076	-5.769775
RBM17	-0.124379	9.8625666	-0.981882	0.3512565	0.66076	-5.769851
BTBD3	0.0593067	6.8824296	0.9815196	0.3514259	0.66076	-5.770194
TMEM258	0.1196413	12.923671	0.981473	0.3514477	0.66076	-5.770239
ANKRD16	-0.070279	7.6220997	-0.981459	0.3514543	0.66076	-5.770252
HKR1	-0.079592	7.0565265	-0.981253	0.3515508	0.66076	-5.770447
AP5Z1	0.1109352	7.1615027	0.9812447	0.3515544	0.66076	-5.770454
GMPPB	0.0967838	8.4975978	0.9812078	0.3515717	0.66076	-5.770489
SRGAP3	0.0612794	6.8082835	0.9812045	0.3515732	0.66076	-5.770493
MORC2-AS1	-0.084408	7.4309858	-0.981168	0.3515904	0.66076	-5.770527
CPA5	-0.06841	6.8191453	-0.98105	0.3516453	0.66078	-5.770638
BCL2L12	0.0772975	9.4202865	0.9803581	0.351969	0.66123	-5.771293
RAB1A	-0.114353	8.1523255	-0.980288	0.3520018	0.66123	-5.771359
PRMT1	0.0907998	10.480596	0.9802409	0.3520239	0.66123	-5.771404
TOP3B	-0.087019	9.1738911	-0.980088	0.3520952	0.66127	-5.771548
GLOD5	-0.073194	6.8958576	-0.979997	0.352138	0.66127	-5.771634
SERPINA10	-0.093263	7.4402326	-0.979908	0.3521797	0.66127	-5.771718
CNIH1	0.0599158	10.935147	0.9796229	0.3523131	0.66137	-5.771988
HERPUD1	-0.095237	10.973408	-0.979565	0.3523404	0.66137	-5.772043
NECAP2	0.0879143	10.890568	0.9794955	0.3523728	0.66137	-5.772108
ADNP2	0.0699077	8.6802031	0.9794029	0.3524161	0.66137	-5.772195
EMID1	-0.063857	6.7359319	-0.979112	0.3525525	0.66139	-5.77247
CCL2	-0.080827	6.7520781	-0.97905	0.3525813	0.66139	-5.772529
ADD1	0.073844	8.8664335	0.9790064	0.3526018	0.66139	-5.77257
CDK18	0.0866901	7.2802461	0.9790035	0.3526032	0.66139	-5.772573

TFDP1	0.0729324	11.843509	0.9788918	0.3526555	0.6614	-5.772678
OR5AS1	0.1010239	6.9408907	0.9787382	0.3527275	0.66145	-5.772823
ARTN	-0.064689	6.8713426	-0.978553	0.3528141	0.66153	-5.772998
CXorf56	-0.069343	7.7861559	-0.978454	0.3528608	0.66153	-5.773092
LRRC4B	-0.073038	6.8879547	-0.978139	0.3530083	0.66172	-5.773389
C12orf75	0.0784359	9.3217991	0.9777307	0.3531998	0.66199	-5.773774
CENPV	0.1176218	10.651955	0.9773863	0.3533614	0.66217	-5.774099
HIST1H2AM	-0.084422	7.2051255	-0.97734	0.353383	0.66217	-5.774142
BARX2	-0.09778	6.8713988	-0.976885	0.3535966	0.66248	-5.774571
CCDC14	-0.107328	9.1896603	-0.976432	0.3538095	0.6628	-5.774998
CD27-AS1	-0.067236	7.6468718	-0.976314	0.3538647	0.66282	-5.775109
HNRNPH2	0.118001	7.8806337	0.9761166	0.3539575	0.66284	-5.775295
NMB	0.0944956	7.2524428	0.9760575	0.3539853	0.66284	-5.775351
PPIL3	-0.067584	7.8339207	-0.976	0.3540121	0.66284	-5.775405
PXMP4	-0.062228	6.8474795	-0.97575	0.35413	0.6629	-5.775641
MMRN2	0.0665768	6.8668577	0.975733	0.3541378	0.6629	-5.775657
SLC25A10	-0.141377	8.3481545	-0.97547	0.3542612	0.66292	-5.775904
CPNE7	0.0677018	6.9632798	0.9754305	0.3542799	0.66292	-5.775941
ZNF274	-0.062026	7.3969106	-0.975334	0.3543252	0.66292	-5.776032
FOXE1	-0.058652	6.8241605	-0.975322	0.3543308	0.66292	-5.776043
IRF3	0.1231911	8.6817371	0.9751817	0.3543969	0.66296	-5.776176
OR9Q2	-0.088825	6.8234247	-0.974948	0.354507	0.66303	-5.776396
SETX	0.0678034	7.654716	0.9747711	0.35459	0.66303	-5.776562
GYG1	0.0826927	10.427147	0.9747514	0.3545993	0.66303	-5.776581
CNOT8	-0.147705	8.16571	-0.974722	0.354613	0.66303	-5.776608
MIR330	-0.090017	7.2619097	-0.974307	0.3548084	0.66327	-5.776999
ERAP1	-0.100017	7.2164262	-0.974249	0.3548359	0.66327	-5.777054
SARS2	0.0710173	9.934985	0.9739049	0.3549977	0.66342	-5.777377
SNHG10	-0.09949	7.2279704	-0.973888	0.3550056	0.66342	-5.777393
ADIPOQ	0.0593854	6.8669358	0.9733326	0.3552672	0.66381	-5.777915
EIF2S2	-0.076847	8.6909094	-0.973253	0.3553045	0.66381	-5.777989
FERMT2	-0.074968	6.9005218	-0.972931	0.3554564	0.66401	-5.778292
TMEM230	0.0775285	11.391871	0.9727196	0.355556	0.66411	-5.778491
TNFRSF1B	-0.081021	8.0860218	-0.972517	0.3556515	0.66411	-5.778681
BEST4	0.0895224	6.875132	0.972254	0.3557756	0.66411	-5.778928
SCG2	0.0901797	6.8644988	0.9721407	0.355829	0.66411	-5.779034
PLEKHG7	0.0842495	6.9445141	0.972084	0.3558557	0.66411	-5.779087
PAM16	-0.080228	10.217651	-0.972077	0.3558588	0.66411	-5.779094
GSK3A	0.0813826	7.1051962	0.9720447	0.3558743	0.66411	-5.779124
MTO1	-0.07526	9.4404535	-0.972042	0.3558755	0.66411	-5.779127
NR2F2	-0.06279	7.0469987	-0.971736	0.3560199	0.6642	-5.779414
RPL23AP42	0.106899	13.674239	0.971669	0.3560515	0.6642	-5.779477
SH2D4A	-0.059956	6.7576001	-0.971604	0.3560822	0.6642	-5.779538
PCDHB10	0.0587902	6.8171184	0.9715523	0.3561066	0.6642	-5.779587
WWC3	0.0824399	7.6554784	0.9714028	0.3561771	0.66425	-5.779727

C2	-0.079537	6.806614	-0.971302	0.3562248	0.66425	-5.779822
CIART	-0.063004	6.7206943	-0.971119	0.356311	0.66433	-5.779993
ZC3H10	0.0600062	7.936658	0.9707991	0.3564621	0.66435	-5.780293
EMC1	0.0772881	8.9301731	0.9707854	0.3564686	0.66435	-5.780306
NDUFC1	-0.10019	9.5535087	-0.970776	0.3564729	0.66435	-5.780314
SYN2	0.0668906	6.9378954	0.9707109	0.3565038	0.66435	-5.780376
RBMS2	-0.080207	6.8636407	-0.970407	0.3566473	0.66448	-5.780661
CD1E	-0.068824	6.9279877	-0.970362	0.3566684	0.66448	-5.780703
MUSTN1	0.0871102	7.057009	0.9696995	0.3569817	0.66498	-5.781324
COA4	-0.097625	9.066543	-0.969357	0.3571438	0.6652	-5.781645
TOP1P1	-0.07269	7.3114345	-0.969251	0.3571939	0.66521	-5.781744
GRAMD1B	-0.073703	6.8328612	-0.968376	0.3576077	0.66589	-5.782563
ZNF548	-0.070732	7.8379203	-0.968012	0.3577801	0.66612	-5.782904
PAQR5	0.067596	6.8035601	0.9678841	0.3578407	0.66612	-5.783024
NBPF9	0.2849022	9.5481492	0.9678038	0.3578787	0.66612	-5.783099
SMN1	-0.063186	7.2109219	-0.967738	0.3579098	0.66612	-5.78316
GTPBP10	-0.082916	7.2344266	-0.967293	0.3581207	0.6663	-5.783577
RN7SK	-0.074912	8.196408	-0.967257	0.3581376	0.6663	-5.78361
NOMO2	0.0669418	9.4199644	0.9672401	0.3581458	0.6663	-5.783626
RIOK1	0.0628219	8.5985557	0.9670585	0.3582319	0.66637	-5.783796
TTI2	-0.084397	8.8082139	-0.966966	0.3582757	0.66637	-5.783882
MSX2P1	-0.065381	6.8315456	-0.966679	0.3584118	0.66654	-5.784151
RPS15	-0.086581	12.334108	-0.966103	0.3586851	0.66674	-5.784689
ZNF577	-0.070569	7.5782283	-0.966083	0.3586946	0.66674	-5.784708
NECTIN2	-0.060151	6.8167467	-0.966047	0.3587114	0.66674	-5.784741
ASCL2	-0.070579	6.8866101	-0.966026	0.3587215	0.66674	-5.784761
DEFB130	-0.062044	6.7740731	-0.965973	0.3587467	0.66674	-5.78481
ZNF682	-0.068066	8.8280597	-0.965623	0.3589127	0.66696	-5.785137
IDI2	0.0824709	6.936151	0.9654704	0.3589851	0.66701	-5.78528
COQ7	0.0640485	7.470601	0.9652056	0.3591109	0.66709	-5.785527
FSD2	0.0761316	6.9796554	0.9650906	0.3591654	0.66709	-5.785634
COPZ2	-0.07741	6.7920012	-0.964872	0.3592693	0.66709	-5.785838
CREBL2	0.1100616	7.2902689	0.9648326	0.359288	0.66709	-5.785875
KLHL15	-0.071575	6.8434281	-0.964699	0.3593512	0.66709	-5.785999
SLC2A11	0.0762208	7.1670118	0.9646643	0.359368	0.66709	-5.786032
SMYD2	-0.061687	8.8923196	-0.96464	0.3593796	0.66709	-5.786055
GRHL1	-0.081436	7.1676301	-0.964448	0.3594705	0.66709	-5.786233
RNASE13	0.0978403	6.9879861	0.9643132	0.3595348	0.66709	-5.786359
MEGF9	0.0614171	7.1260887	0.9640528	0.3596585	0.66709	-5.786602
KANSL1L	0.0646669	6.9048038	0.9639029	0.3597298	0.66709	-5.786742
IFT122	-0.059116	7.2064501	-0.963901	0.3597306	0.66709	-5.786744
SLC35B1	0.1086935	10.842565	0.9638843	0.3597386	0.66709	-5.786759
AHCY	0.0952576	12.389432	0.9638275	0.3597657	0.66709	-5.786812
ZNF41	-0.063525	6.9289582	-0.963796	0.3597808	0.66709	-5.786842
DCBLD2	-0.086779	7.364797	-0.963777	0.3597898	0.66709	-5.78686

SNAPC1	-0.090243	7.6795928	-0.963743	0.3598058	0.66709	-5.786891
IRX6	0.1084281	7.1599622	0.9633821	0.3599774	0.66733	-5.787228
MIR517B	-0.072879	6.9384969	-0.963006	0.3601563	0.66757	-5.787578
KCTD2	0.1040793	7.5976325	0.9623346	0.360476	0.66802	-5.788204
NOL7	0.0739267	12.331537	0.9623044	0.3604904	0.66802	-5.788232
PGAP3	0.0703763	7.520511	0.9620186	0.3606265	0.66811	-5.788498
MCM8	0.0681173	8.8758884	0.9620146	0.3606284	0.66811	-5.788501
CCL14	-0.071323	7.0155068	-0.961742	0.360758	0.66823	-5.788755
C20orf194	-0.067135	6.7775328	-0.961689	0.3607836	0.66823	-5.788805
ARMC12	-0.073609	6.838845	-0.961572	0.360839	0.66825	-5.788913
RPA1	0.0897043	10.388428	0.9614092	0.3609168	0.66831	-5.789065
RETSAT	0.0896103	7.8641634	0.9612204	0.3610068	0.66835	-5.789241
SLC39A7	0.0651339	7.2381807	0.9611614	0.3610349	0.66835	-5.789295
ISG20L2	0.2304103	9.4853407	0.960702	0.3612539	0.66867	-5.789723
ZNF331	-0.069339	7.586117	-0.960464	0.3613676	0.66872	-5.789944
SLC35D3	0.0591012	6.7367949	0.9602875	0.3614517	0.66872	-5.790108
SH3D19	-0.064225	6.7861434	-0.960187	0.3614994	0.66872	-5.790201
RIPK4	-0.075255	7.0433453	-0.960184	0.361501	0.66872	-5.790204
NDUFB1	-0.05848	7.3167999	-0.960167	0.3615093	0.66872	-5.79022
TTC5	0.1071145	9.3135945	0.9599267	0.3616238	0.66885	-5.790443
BCL6B	-0.076026	7.0270603	-0.959803	0.361683	0.66888	-5.790559
CST4	-0.068087	6.9310719	-0.959672	0.3617455	0.66891	-5.79068
ZPBP2	-0.065591	7.645281	-0.959329	0.3619091	0.66905	-5.790999
SNORD47	0.1182043	6.9722996	0.9593126	0.361917	0.66905	-5.791014
AP5M1	-0.104981	8.6477092	-0.959216	0.3619631	0.66905	-5.791104
ERP44	0.0830328	7.067473	0.9587519	0.3621848	0.66931	-5.791535
ENPP4	0.070935	7.8469973	0.9587257	0.3621973	0.66931	-5.791559
MIR572	0.0652114	6.9731725	0.9586427	0.362237	0.66931	-5.791636
SMARCA5	0.1028535	8.6761894	0.9583102	0.3623959	0.66949	-5.791945
PHTF1	0.0906315	8.2687232	0.9582476	0.3624258	0.66949	-5.792003
HOMER3	0.0789535	6.8274811	0.9578609	0.3626107	0.66974	-5.792362
GOLGA6B	-0.083307	7.2555132	-0.957734	0.3626713	0.66977	-5.792479
CGN	-0.061131	7.4667832	-0.957608	0.3627316	0.6698	-5.792596
DUSP9	0.061021	6.8062118	0.9574238	0.3628198	0.66984	-5.792767
ANKRD46	-0.089956	9.6569278	-0.957337	0.3628615	0.66984	-5.792848
NFYA	0.0664608	7.3578731	0.9572709	0.362893	0.66984	-5.792909
GPX8	-0.070139	7.0111163	-0.956853	0.3630929	0.66997	-5.793296
METTL5	-0.128831	10.973625	-0.956807	0.363115	0.66997	-5.793339
PSMD10	-0.063076	9.2428378	-0.956772	0.363132	0.66997	-5.793372
PER1	0.0667373	6.9151335	0.9567367	0.3631486	0.66997	-5.793404
CCNB3	-0.072041	6.7224766	-0.956403	0.3633082	0.67009	-5.793713
AKR1A1	0.0669452	9.7890563	0.9563025	0.3633566	0.67009	-5.793806
MBD3L2	0.0703755	6.9615804	0.95623	0.3633913	0.67009	-5.793874
TRIML1	0.0681524	7.0678512	0.9561736	0.3634183	0.67009	-5.793926
MT1X	-0.088941	10.523222	-0.956128	0.3634401	0.67009	-5.793968

PTPRA	0.0605199	7.6745261	0.9558133	0.3635909	0.67016	-5.79426
PSMA1	-0.059678	9.4861614	-0.955642	0.363673	0.67016	-5.794418
RBL2	-0.064717	9.5072044	-0.955607	0.3636897	0.67016	-5.79445
NLGN4X	0.0745606	6.8744751	0.955607	0.3636897	0.67016	-5.794451
SLIT2	-0.077022	6.9382695	-0.955563	0.3637107	0.67016	-5.794491
DALRD3	-0.084957	7.1915028	-0.9554	0.363789	0.67022	-5.794642
BPY2C	0.0681484	6.7480705	0.9552738	0.3638494	0.67025	-5.794759
ACTR3B	0.0732824	7.9684533	0.9549402	0.3640094	0.67046	-5.795068
SMYD4	0.1017766	8.5600802	0.9545824	0.364181	0.67068	-5.795399
MAP2K7	-0.104593	7.2488309	-0.954498	0.3642217	0.67068	-5.795477
ZFP91	0.0780153	9.2983964	0.9540594	0.364432	0.67094	-5.795883
RFC3	0.0737201	8.3714241	0.9538877	0.3645144	0.67094	-5.796041
CPXM2	-0.093668	6.9354924	-0.953847	0.3645338	0.67094	-5.796079
LOC400710	-0.071159	6.9768907	-0.953816	0.3645487	0.67094	-5.796107
RBAK	0.0654375	6.9608201	0.9532288	0.3648308	0.67138	-5.79665
PP7080	-0.083523	8.25409	-0.953032	0.3649255	0.67141	-5.796833
SNORA57	-0.063858	8.2098105	-0.952903	0.3649873	0.67141	-5.796951
ZNF266	-0.060513	7.4583849	-0.952852	0.3650119	0.67141	-5.796999
LRFN1	0.0598915	6.8043146	0.9528007	0.3650365	0.67141	-5.797046
VAMP4	-0.07817	7.4298206	-0.952643	0.3651122	0.67141	-5.797192
CDKN1A	-0.103107	11.141033	-0.952465	0.365198	0.67141	-5.797356
ALDH3B1	-0.066121	6.7343162	-0.952368	0.3652446	0.67141	-5.797446
FDX1L	0.0655584	8.6764076	0.9522237	0.3653138	0.67141	-5.797579
TUBGCP2	0.0638603	8.0219919	0.9522087	0.3653211	0.67141	-5.797593
RPS15A	-0.075205	13.189051	-0.95216	0.3653446	0.67141	-5.797638
CAPZB	0.1053623	10.142908	0.9520989	0.3653739	0.67141	-5.797694
MGP	-0.067813	6.9038171	-0.952045	0.3653999	0.67141	-5.797744
SRSF2	0.0972258	12.708105	0.9519062	0.3654665	0.67145	-5.797872
ADAM10	0.0896284	7.3923487	0.9517017	0.3655649	0.67154	-5.798061
ZNF549	0.0944898	9.0286617	0.9515313	0.3656469	0.67156	-5.798218
GADD45A	-0.062983	9.2579655	-0.951488	0.3656676	0.67156	-5.798258
ARHGEF9	0.0917064	7.0610618	0.9510872	0.3658606	0.67177	-5.798628
EEA1	0.0682635	6.9216214	0.9510583	0.3658745	0.67177	-5.798654
NUDCD3	0.0712242	8.0035249	0.9509679	0.365918	0.67177	-5.798738
CCDC34	0.0805411	10.041149	0.9506288	0.3660813	0.67197	-5.79905
EN2	-0.073447	6.8828056	-0.950515	0.3661362	0.67197	-5.799155
ADK	-0.070647	8.9454248	-0.95045	0.3661673	0.67197	-5.799215
ANXA1	-0.065763	6.7590892	-0.950264	0.3662571	0.67205	-5.799387
LOC340357	0.0788159	7.1882112	0.9501785	0.3662982	0.67205	-5.799465
TRAPPC10	-0.071793	7.3209406	-0.949767	0.3664964	0.67232	-5.799844
SNX6	-0.075318	7.9025475	-0.949662	0.366547	0.67233	-5.799941
GTF2H2B	-0.088137	10.158056	-0.949351	0.3666968	0.67242	-5.800227
ACAT1	0.0862664	10.969349	0.9492832	0.3667297	0.67242	-5.80029
SESN1	-0.099354	8.6975926	-0.949225	0.3667578	0.67242	-5.800344
ENTPD7	0.0768643	7.1854421	0.9491477	0.366795	0.67242	-5.800415

ISOC1	-0.078838	10.093996	-0.949046	0.3668442	0.67242	-5.800509
ABHD16A	0.0711557	8.0995147	0.948907	0.3669111	0.67242	-5.800637
CKS1B	0.0645754	11.278078	0.9488396	0.3669436	0.67242	-5.800699
RPP30	-0.081655	7.1529945	-0.94876	0.3669821	0.67242	-5.800772
FAM83C	0.0728578	6.9804631	0.9485866	0.3670657	0.67242	-5.800932
TMEM41B	-0.161204	9.2028964	-0.948565	0.3670762	0.67242	-5.800952
BRAF	0.0611238	7.0637791	0.948509	0.3671031	0.67242	-5.801003
XPNPEP2	-0.077529	6.9255811	-0.948258	0.3672244	0.67256	-5.801234
PDPK1	0.0645942	7.634072	0.9476833	0.3675017	0.67293	-5.801763
PIK3R5	-0.066936	6.8576067	-0.947645	0.3675201	0.67293	-5.801798
MOSPD3	0.0593793	7.336506	0.9475568	0.3675628	0.67293	-5.801879
BRCA1	0.0763973	7.5286737	0.9473052	0.3676844	0.67307	-5.80211
STK17B	0.0699054	9.2494887	0.9470799	0.3677932	0.67315	-5.802317
ABHD17B	-0.067512	7.6724581	-0.947022	0.3678212	0.67315	-5.802371
CDK5R2	-0.07174	6.8985694	-0.946499	0.368074	0.6733	-5.802851
SLC9B1	-0.069817	7.0100267	-0.946418	0.3681133	0.6733	-5.802926
BPTF	0.0730011	6.9741897	0.9463527	0.3681447	0.6733	-5.802986
ATP6V0B	-0.082992	10.754235	-0.94629	0.3681751	0.6733	-5.803044
AP2B1	0.0664381	7.7707646	0.9462119	0.3682128	0.6733	-5.803115
ONECUT2	0.0602234	6.8852636	0.9461658	0.3682351	0.6733	-5.803157
LATS2	-0.058456	6.785991	-0.946123	0.368256	0.6733	-5.803197
ELAC1	-0.07847	7.163146	-0.945826	0.3683992	0.6733	-5.803469
SERPINI1	0.0656772	6.9714966	0.9458075	0.3684084	0.6733	-5.803486
POLDIP3	0.0926135	8.4982829	0.9457719	0.3684256	0.6733	-5.803519
RBMS3	0.0657575	6.9046048	0.9457718	0.3684256	0.6733	-5.803519
TMTC3	-0.072739	7.0289258	-0.945709	0.3684558	0.6733	-5.803576
DOPEY2	-0.066005	7.9589748	-0.945576	0.3685202	0.6733	-5.803699
CLCF1	0.0764279	7.6653092	0.9453894	0.3686107	0.6733	-5.80387
KRTAP10-10	0.0636739	6.8993401	0.9453257	0.3686415	0.6733	-5.803929
MIR34A	-0.065982	6.788209	-0.945324	0.3686423	0.6733	-5.80393
DHX58	-0.071513	6.7645529	-0.945105	0.3687485	0.67341	-5.804131
ABCC9	0.074981	6.9560703	0.9445759	0.3690046	0.67376	-5.804617
OVCA2	-0.064087	6.8941037	-0.944519	0.3690319	0.67376	-5.804668
C1QTNF1	-0.071137	6.847427	-0.943959	0.3693032	0.67417	-5.805182
PLEKHH2	-0.062076	6.77297	-0.94346	0.3695453	0.67453	-5.80564
NRIP3	0.0686362	7.3648697	0.943314	0.3696161	0.67454	-5.805773
EFTUD2	0.1290862	10.505044	0.9432313	0.3696562	0.67454	-5.805849
CT47A1	-0.094166	6.8756366	-0.943105	0.3697174	0.67454	-5.805965
AASS	-0.0625	6.8380967	-0.943059	0.3697398	0.67454	-5.806007
GAP43	0.0813214	6.8548878	0.9425834	0.3699705	0.67488	-5.806443
SEMA3C	0.0581554	7.000445	0.9423556	0.3700811	0.67493	-5.806651
HOXA6	0.1180373	7.2820941	0.942125	0.370193	0.67493	-5.806862
PHF21A	0.0706127	10.116528	0.9420822	0.3702138	0.67493	-5.806901
RBM3	0.0604925	8.2484147	0.9420445	0.3702321	0.67493	-5.806936
MTCH1	-0.132932	11.639436	-0.941987	0.3702602	0.67493	-5.806989

ENTPD5	-0.074058	7.1164111	-0.941958	0.3702742	0.67493	-5.807015
KIF16B	-0.074924	7.1059435	-0.941681	0.3704086	0.67509	-5.807269
ITPRIPL2	-0.077262	7.1073	-0.941468	0.3705119	0.67514	-5.807463
NIPBL	0.0658459	7.5162392	0.9414233	0.3705338	0.67514	-5.807504
TRAF2	0.0876482	7.4105035	0.9413409	0.3705739	0.67514	-5.80758
NOLC1	0.067132	9.0754085	0.9412174	0.3706339	0.67516	-5.807693
CTHRC1	-0.058472	6.9218304	-0.94102	0.3707299	0.67525	-5.807873
RAB3C	0.0666687	6.7670659	0.9408226	0.3708257	0.67534	-5.808054
SUN1	-0.109699	8.9477747	-0.940441	0.3710112	0.6756	-5.808402
C6orf10	-0.065075	6.7964567	-0.940309	0.3710753	0.67563	-5.808523
BBS12	-0.071324	6.9985137	-0.940086	0.3711837	0.67574	-5.808726
TCEAL1	-0.05811	6.906265	-0.939715	0.3713644	0.67599	-5.809066
TBC1D9B	0.0891323	8.4075406	0.9394983	0.3714699	0.67609	-5.809264
VAPB	0.0620443	7.061122	0.9393969	0.3715192	0.6761	-5.809356
SMIM7	-0.077517	9.0992319	-0.938851	0.371785	0.6765	-5.809855
CAMSAP1	0.0611327	8.4270711	0.938493	0.3719594	0.67659	-5.810181
TACC2	0.0643571	6.700638	0.9384618	0.3719746	0.67659	-5.81021
CDK4	0.0824781	11.562186	0.9384403	0.3719851	0.67659	-5.810229
BUB1	-0.063367	10.252442	-0.938372	0.3720181	0.67659	-5.810291
HMCES	0.0628293	8.0036245	0.9379446	0.3722266	0.6767	-5.810681
RNF181	0.0783693	10.26256	0.9379252	0.3722361	0.6767	-5.810699
CLEC17A	0.0589077	6.8990285	0.9378847	0.3722558	0.6767	-5.810736
PTPRU	0.070416	6.9503783	0.9378672	0.3722643	0.6767	-5.810752
LGALS8	0.0625481	7.0121005	0.9370055	0.3726846	0.67738	-5.811538
SLC22A17	-0.070377	7.0965016	-0.93673	0.3728188	0.67754	-5.811788
CKAP2	-0.090194	8.8637296	-0.935609	0.3733662	0.67837	-5.812809
SLC16A2	0.0665881	7.0332274	0.9353798	0.3734783	0.67837	-5.813018
GK5	0.0847437	7.6790983	0.9353787	0.3734788	0.67837	-5.813019
RPL38	0.0744594	14.471501	0.9353262	0.3735044	0.67837	-5.813067
FZD7	0.0615572	7.3624636	0.9353119	0.3735115	0.67837	-5.81308
ST3GAL5	0.0636307	8.1325343	0.9349826	0.3736724	0.67858	-5.813379
ZMYM2	0.0607905	7.8462289	0.9347031	0.373809	0.67874	-5.813633
UNC13A	0.0662017	6.9564428	0.934101	0.3741035	0.67913	-5.814181
FAM26E	0.0629131	7.0683358	0.9340835	0.3741121	0.67913	-5.814197
CLASRP	-0.087114	7.629885	-0.933956	0.3741746	0.67914	-5.814313
FCHO2	-0.074611	6.8843266	-0.933882	0.3742106	0.67914	-5.81438
TRUB1	0.1221108	7.6496969	0.9329063	0.3746882	0.67985	-5.815266
TXNDC16	-0.082644	7.3305368	-0.93289	0.3746963	0.67985	-5.815281
PCGF3	0.0707853	6.9860065	0.932757	0.3747614	0.67988	-5.815402
PPP1R1C	0.0723494	7.0171816	0.932427	0.3749231	0.68	-5.815701
SPIC	-0.080037	7.1335657	-0.932363	0.3749546	0.68	-5.81576
TAS2R41	-0.06125	6.9817631	-0.932287	0.3749918	0.68	-5.815829
GOLGA8A	-0.097559	6.8485325	-0.932227	0.3750212	0.68	-5.815883
NUDT4	-0.063759	6.8963153	-0.93207	0.3750981	0.68	-5.816025
KCNIP3	0.0570431	6.7638624	0.9320506	0.3751075	0.68	-5.816043

KCNJ16	0.0841605	7.0125285	0.9314807	0.3753869	0.68042	-5.81656
PTPN12	-0.059571	7.6467367	-0.931279	0.3754857	0.68052	-5.816742
SCARNA3	-0.082961	6.9569265	-0.931153	0.3755476	0.68055	-5.816857
CCDC137	-0.09358	7.2734949	-0.930217	0.3760072	0.68129	-5.817705
CCDC150	-0.068003	6.9451463	-0.930052	0.376088	0.68131	-5.817854
SGSH	0.0799016	7.6730074	0.9299688	0.3761289	0.68131	-5.81793
SLC45A2	0.0680547	6.8896648	0.9299091	0.3761582	0.68131	-5.817984
NBL1	-0.057007	6.8546014	-0.929717	0.3762526	0.6814	-5.818158
SPAG16	0.0624114	6.8415347	0.9295209	0.3763489	0.68142	-5.818335
FCMR	-0.072737	7.276532	-0.929495	0.3763616	0.68142	-5.818359
MAP3K7	0.0668849	8.5623262	0.9294134	0.3764017	0.68142	-5.818432
ANKRD20A3	0.0602097	6.9035427	0.9292185	0.3764975	0.68151	-5.818609
CDK11A	0.1308707	7.719197	0.9288227	0.3766921	0.68177	-5.818967
ZNF160	0.0560004	7.4493739	0.9286894	0.3767576	0.68181	-5.819088
MORF4L2-A	0.131417	7.1200936	0.9285717	0.3768155	0.68183	-5.819194
NKX3-1	-0.07062	6.7943405	-0.928301	0.3769484	0.68189	-5.819438
LINC00852	0.0757617	6.9615856	0.9282672	0.3769652	0.68189	-5.819469
LOC729545	-0.077245	6.9412162	-0.928212	0.3769924	0.68189	-5.819519
P2RY6	0.0590915	6.7822449	0.9280527	0.3770707	0.68195	-5.819663
TRAF3IP2	0.0560817	6.7666104	0.9278986	0.3771466	0.682	-5.819803
ATF3	0.0749985	7.6608354	0.9274933	0.377346	0.68219	-5.820169
IRX5	-0.058234	6.8693352	-0.927406	0.3773891	0.68219	-5.820248
AMY2A	0.0622335	6.9159043	0.927322	0.3774304	0.68219	-5.820324
DDX24	0.1013693	10.146753	0.9273152	0.3774338	0.68219	-5.82033
GADD45B	0.0942617	9.0882679	0.927212	0.3774845	0.68219	-5.820423
WDFY3	0.0621703	6.8728771	0.9270971	0.3775411	0.68221	-5.820527
LRCH1	0.0589331	6.8621241	0.9267672	0.3777036	0.68237	-5.820825
ATP11B	0.0858993	7.8246024	0.9267001	0.3777367	0.68237	-5.820886
IL18RAP	-0.058595	6.8088093	-0.926615	0.3777787	0.68237	-5.820963
PCYOX1	-0.087126	7.6166826	-0.926393	0.3778878	0.68237	-5.821162
TPK1	-0.066868	6.9729903	-0.926341	0.3779134	0.68237	-5.821209
SYT11	-0.064748	9.6607094	-0.926188	0.377989	0.68237	-5.821348
BFSP1	-0.056322	6.7612871	-0.92617	0.3779978	0.68237	-5.821364
RNASE1	0.0778729	6.8919584	0.9261277	0.3780187	0.68237	-5.821402
ZDHHC19	-0.056703	6.8474328	-0.926058	0.378053	0.68237	-5.821465
PNRC2	0.1052599	9.2224663	0.9255622	0.3782975	0.68273	-5.821912
HOXA11-AS	-0.057776	6.7933027	-0.924869	0.3786396	0.68326	-5.822538
GBP2	0.0622984	6.9363125	0.9245282	0.3788077	0.68326	-5.822845
BAD	-0.071373	7.793739	-0.924482	0.3788307	0.68326	-5.822887
CDCA7	-0.063067	9.3111776	-0.924463	0.3788401	0.68326	-5.822904
DCP1B	0.0644751	7.2998698	0.9244372	0.3788526	0.68326	-5.822927
ECT2L	-0.063608	6.9285941	-0.924405	0.3788683	0.68326	-5.822955
ETNK1	-0.057906	7.6657805	-0.924229	0.3789554	0.68333	-5.823114
ZNF14	-0.06261	9.2448004	-0.924103	0.3790176	0.68336	-5.823228
CRISPLD1	-0.061001	6.7595667	-0.923875	0.37913	0.68347	-5.823433

CEP170	-0.067301	6.9312043	-0.923682	0.3792254	0.68349	-5.823607
EPDR1	0.0788729	6.798823	0.9236619	0.3792355	0.68349	-5.823625
ELF2	-0.063948	7.5645919	-0.923384	0.379373	0.68359	-5.823876
FABP5	-0.066181	10.054142	-0.923325	0.3794022	0.68359	-5.823929
ANTXR1	0.0578306	6.8958862	0.9232655	0.3794313	0.68359	-5.823982
CERKL	-0.094914	7.1672726	-0.923131	0.379498	0.68363	-5.824103
CAD	0.1374354	9.0327375	0.9228624	0.3796306	0.68367	-5.824345
COQ9	0.1144116	10.423458	0.9227731	0.3796748	0.68367	-5.824425
CCT7	0.0612343	11.533156	0.9227651	0.3796787	0.68367	-5.824432
SUMO1P3	-0.071563	8.1823667	-0.922679	0.3797211	0.68367	-5.82451
FBP1	0.0691486	6.7981547	0.9225809	0.3797698	0.68367	-5.824598
GOLGA6L5P	0.0757687	7.0786475	0.9224688	0.3798252	0.68367	-5.824699
FTSJ3	0.0868105	8.4001082	0.9224268	0.379846	0.68367	-5.824737
PLIN2	-0.064642	8.8133648	-0.922296	0.3799105	0.6837	-5.824854
LTA	-0.128964	10.553933	-0.922168	0.3799742	0.68373	-5.82497
HTR3A	-0.0812	7.3977347	-0.922047	0.3800338	0.68375	-5.825078
NDC1	0.0558411	8.3932147	0.9216776	0.3802167	0.684	-5.825411
TPST1	-0.076464	7.2329811	-0.921531	0.3802895	0.68404	-5.825543
NCK2	-0.070673	8.1206967	-0.921389	0.3803595	0.68405	-5.82567
DCAF4L2	0.0594596	6.7825644	0.9212864	0.3804104	0.68405	-5.825762
CYTH4	-0.071396	7.1037545	-0.921207	0.3804495	0.68405	-5.825833
NIPAL3	0.0591345	7.7590476	0.9211475	0.3804791	0.68405	-5.825887
ZNF347	-0.054973	6.8651931	-0.920922	0.3805909	0.68416	-5.82609
TRPA1	0.0641801	6.7820355	0.9205446	0.3807777	0.6844	-5.826428
MIR2116	0.1075679	7.0055057	0.920449	0.3808251	0.6844	-5.826514
CYP2R1	-0.081202	8.1005717	-0.920368	0.3808653	0.6844	-5.826587
UBAP1	-0.085664	8.9508471	-0.920218	0.3809397	0.68445	-5.826722
BLOC1S2	0.0593285	7.0176702	0.9200002	0.3810476	0.68448	-5.826917
CBX3	0.0787611	8.545654	0.9199939	0.3810507	0.68448	-5.826923
PER2	-0.066362	9.7490927	-0.919763	0.3811653	0.68461	-5.82713
HTR3C	-0.057933	6.8116646	-0.919226	0.3814314	0.68488	-5.827612
RRP7BP	0.0920566	10.555371	0.91922	0.3814345	0.68488	-5.827617
RABEP2	0.0584285	6.8982902	0.9191755	0.3814565	0.68488	-5.827657
PSKH1	-0.057759	7.0411271	-0.918973	0.3815569	0.68489	-5.827839
SLC6A16	-0.070572	7.1183775	-0.918943	0.3815719	0.68489	-5.827866
ZSCAN9	-0.07929	7.2717863	-0.918734	0.3816754	0.68489	-5.828053
MIR130A	-0.10788	7.5480323	-0.918699	0.3816932	0.68489	-5.828085
EIF1AY	-0.070803	10.36306	-0.918587	0.3817484	0.68489	-5.828185
HIST1H4I	-0.085447	7.0034791	-0.918585	0.3817498	0.68489	-5.828187
PRDM4	0.0757796	9.8829932	0.9184947	0.3817944	0.68489	-5.828268
DNAJC1	-0.093352	7.0790323	-0.91821	0.381936	0.68502	-5.828523
TMEM185A	0.0564328	7.8800376	0.9181591	0.381961	0.68502	-5.828568
GLB1	-0.078932	9.3220647	-0.917871	0.382104	0.6852	-5.828826
MIR1229	0.0929636	7.0202762	0.9174704	0.3823032	0.68547	-5.829185
CTBS	0.0647303	7.8153756	0.9169631	0.3825553	0.68576	-5.82964

BTF3P11	-0.064847	7.0018396	-0.916956	0.382559	0.68576	-5.829646
SPR	-0.065233	6.7669627	-0.916774	0.3826495	0.6858	-5.829809
ETV3	0.0597314	7.1615164	0.9167202	0.382676	0.6858	-5.829857
MIGA2	0.0828792	7.6915052	0.9164244	0.3828232	0.68598	-5.830122
VEGFD	-0.066836	6.8554298	-0.916161	0.3829539	0.68607	-5.830357
XRN1	0.0799135	7.5261754	0.9160676	0.3830006	0.68607	-5.830441
PSMD11	0.0967353	8.2074089	0.915982	0.3830432	0.68607	-5.830517
DKK2	-0.071843	6.8841718	-0.915942	0.3830633	0.68607	-5.830553
ACBD5	-0.066325	7.0292765	-0.915833	0.3831172	0.68609	-5.83065
ZIK1	0.0596894	6.8729529	0.9151692	0.3834478	0.68642	-5.831244
MTHFS	-0.07439	9.2841567	-0.915105	0.3834797	0.68642	-5.831301
ZFP64	0.062688	7.010412	0.9150887	0.3834879	0.68642	-5.831316
MAFG-AS1	0.2558278	8.2174083	0.9149856	0.3835393	0.68642	-5.831408
MYBPHL	0.0629304	6.7730799	0.9149836	0.3835402	0.68642	-5.83141
BANP	0.0586573	8.7880622	0.9143589	0.3838515	0.68679	-5.831968
TMED9	-0.071091	10.555027	-0.914346	0.3838577	0.68679	-5.831979
MYBBP1A	0.0779378	7.7431184	0.9142917	0.383885	0.68679	-5.832028
CYCSP55	0.0726288	9.7389195	0.914159	0.3839511	0.68682	-5.832147
AIP	0.1231196	9.8199842	0.9137713	0.3841444	0.68708	-5.832493
GTPBP3	-0.05668	9.3587152	-0.913611	0.3842245	0.68709	-5.832636
CYHR1	-0.062648	6.8711039	-0.913574	0.3842427	0.68709	-5.832669
LOC1001325	-0.081262	14.103206	-0.913272	0.3843936	0.68727	-5.832938
IFFO2	0.0689017	6.8852841	0.9130713	0.3844935	0.6873	-5.833117
JADE1	-0.056256	7.91613	-0.913011	0.3845235	0.6873	-5.833171
MTA3	-0.081609	10.033785	-0.912794	0.384632	0.6873	-5.833365
FAM131C	0.0577771	6.7998093	0.9127018	0.3846779	0.6873	-5.833447
AMOTL1	-0.057586	6.8304047	-0.912656	0.3847009	0.6873	-5.833488
CD14	-0.06244	6.8868891	-0.912436	0.3848107	0.6873	-5.833684
MT1A	0.108275	10.325258	0.9124152	0.384821	0.6873	-5.833702
CMTR2	0.0920775	8.2466176	0.9123819	0.3848376	0.6873	-5.833732
S1PR5	-0.073913	6.7000321	-0.912343	0.3848569	0.6873	-5.833766
UGT3A2	0.0573797	6.8112237	0.9122941	0.3848814	0.6873	-5.83381
LCOR	0.0774788	7.6962631	0.9121825	0.3849371	0.6873	-5.83391
ZNF322P1	-0.081026	7.1895099	-0.912109	0.3849741	0.6873	-5.833976
SYCE2	-0.059184	6.9054975	-0.911765	0.3851458	0.68752	-5.834282
LEPROT	0.1231892	8.4923447	0.9115783	0.3852389	0.68761	-5.834448
SAMHD1	0.0658966	6.8303958	0.9113934	0.3853313	0.68769	-5.834613
COLGALT2	-0.060706	6.8977662	-0.911117	0.3854696	0.68785	-5.834859
COQ4	0.1025913	7.1676188	0.9109003	0.3855778	0.68792	-5.835052
ZKSCAN2	0.0698508	7.2187952	0.9108508	0.3856025	0.68792	-5.835096
PTPN2	-0.081829	8.0472637	-0.910599	0.3857284	0.68801	-5.83532
SLC15A3	0.0813598	8.6381757	0.910305	0.3858755	0.68801	-5.835582
KRT3	-0.067829	6.9558194	-0.910258	0.3858989	0.68801	-5.835623
ZNF354A	-0.071559	7.0503166	-0.910233	0.3859113	0.68801	-5.835645
FIGNL1	0.0544664	7.7276887	0.9102222	0.3859169	0.68801	-5.835655

OSBPL1A	-0.061514	6.8325138	-0.910139	0.3859587	0.68801	-5.83573
CXCL12	0.0579069	6.7943713	0.909897	0.3860796	0.68801	-5.835945
GNRHR	-0.099076	6.827893	-0.909852	0.3861023	0.68801	-5.835985
MED13L	0.0589529	7.4480064	0.9096827	0.3861869	0.68801	-5.836135
LRRC75A	-0.081274	6.8790147	-0.909583	0.3862365	0.68801	-5.836223
NXN	0.0714068	6.9422599	0.9095654	0.3862456	0.68801	-5.83624
RTP5	-0.061584	6.9684272	-0.909351	0.3863529	0.68801	-5.83643
DDX50	0.0763659	9.7999696	0.9093491	0.3863538	0.68801	-5.836432
TTLL12	0.126291	9.9419015	0.9093487	0.3863541	0.68801	-5.836432
MATK	0.0566961	7.0258779	0.9093348	0.386361	0.68801	-5.836444
OR10K2	-0.059727	6.8121254	-0.90852	0.3867691	0.68865	-5.837168
MRPL40	-0.060672	9.5686164	-0.907883	0.3870885	0.68914	-5.837735
EMILIN2	-0.061222	6.8088456	-0.90754	0.3872601	0.68927	-5.838038
XPO7	-0.070921	8.6241363	-0.907539	0.387261	0.68927	-5.83804
KDELC2	-0.058909	6.7675723	-0.907457	0.3873022	0.68927	-5.838113
PRNP	0.0709974	9.7461571	0.9072608	0.3874004	0.68936	-5.838286
NRDE2	0.0973438	8.4825493	0.9071271	0.3874674	0.68938	-5.838405
HPS4	-0.066397	7.0667357	-0.907046	0.3875082	0.68938	-5.838477
MILR1	-0.078961	8.1303472	-0.90675	0.3876565	0.68956	-5.838739
RBBP4	-0.076014	8.245452	-0.906613	0.3877255	0.68957	-5.838861
PREB	0.0741345	8.7040221	0.9065545	0.3877548	0.68957	-5.838913
FAM13A-AS	-0.075569	6.9367876	-0.906339	0.3878632	0.68959	-5.839104
ZNF701	-0.078903	7.1593493	-0.906337	0.3878638	0.68959	-5.839106
ANKEF1	-0.073494	6.9566187	-0.90615	0.387958	0.68965	-5.839272
XAGE2	0.0703439	6.8396471	0.9060834	0.3879913	0.68965	-5.839331
PLCG2	0.105527	11.943824	0.9059494	0.3880586	0.68969	-5.839449
BIK	0.113588	9.1211952	0.9057851	0.3881411	0.68975	-5.839595
SPICE1	0.0595618	6.8698165	0.9056018	0.3882332	0.68983	-5.839757
BIRC5	-0.067647	8.2789435	-0.905262	0.3884039	0.68986	-5.840058
SLC39A11	0.0774316	8.4348464	0.9052494	0.3884103	0.68986	-5.84007
ULBP2	0.0609246	7.4708939	0.9050949	0.3884879	0.68986	-5.840206
SNORA5A	-0.060284	7.4535884	-0.904904	0.388584	0.68986	-5.840376
TXNDC2	0.1053405	6.8217386	0.904846	0.3886131	0.68986	-5.840427
RERG-AS1	0.0617315	6.983413	0.9046847	0.3886942	0.68986	-5.84057
SYNE1	-0.056396	6.8996113	-0.904638	0.3887178	0.68986	-5.840611
FBXO45	0.0586131	7.6259529	0.9046154	0.388729	0.68986	-5.840631
PHF6	-0.070651	7.1311841	-0.904595	0.3887395	0.68986	-5.840649
EPB41L3	-0.068206	6.7760609	-0.904429	0.3888225	0.68986	-5.840796
PPEF1	0.0632399	6.8938297	0.9043772	0.3888488	0.68986	-5.840842
SCARNA9L	-0.066129	7.0968259	-0.904358	0.3888586	0.68986	-5.840859
HMGA2	-0.088795	6.9537874	-0.90435	0.3888627	0.68986	-5.840866
ZNF256	-0.080022	6.7344143	-0.903859	0.3891094	0.69021	-5.8413
LINC01089	-0.060322	6.9644428	-0.903401	0.38934	0.6904	-5.841705
CFAP58	0.0612373	6.9137608	0.9033646	0.3893583	0.6904	-5.841737
DNAH5	-0.056865	6.7651546	-0.90328	0.389401	0.6904	-5.841812

METTL21A	-0.056732	8.6293351	-0.903272	0.3894052	0.6904	-5.84182
TTC12	0.0630475	7.33142	0.9030139	0.3895349	0.69048	-5.842047
C4orf3	0.0595252	8.095423	0.902989	0.3895474	0.69048	-5.842069
ZSCAN12P1	-0.081997	7.2145661	-0.902452	0.389818	0.69069	-5.842544
MIRLET7BH(	0.0716644	7.0135105	0.9022936	0.3898978	0.69069	-5.842684
IPO8	0.0606475	7.7548891	0.902264	0.3899127	0.69069	-5.84271
DUSP5P1	-0.072136	6.9661752	-0.902161	0.3899648	0.69069	-5.842801
KLHL4	0.0670515	6.8290381	0.9021354	0.3899775	0.69069	-5.842824
MT1G	-0.089803	6.9586468	-0.902128	0.389981	0.69069	-5.84283
NUP43	0.0675195	9.0034865	0.9020992	0.3899957	0.69069	-5.842856
SCGB3A2	0.0754924	6.9484634	0.9017577	0.3901679	0.69086	-5.843157
HLA-DPB1	-0.06647	10.04587	-0.90172	0.3901867	0.69086	-5.84319
NAA40	-0.054387	6.9800886	-0.901279	0.3904091	0.69117	-5.843579
MIR302D	-0.103598	6.921074	-0.900995	0.3905528	0.69134	-5.843831
UBA2	-0.145141	8.1144591	-0.900823	0.3906392	0.69141	-5.843982
CGGBP1	0.0592955	9.7179824	0.900706	0.3906984	0.69141	-5.844085
OR1N1	-0.075087	6.8707755	-0.900619	0.3907423	0.69141	-5.844162
HMGN3	0.0614298	6.861008	0.9004956	0.3908046	0.69141	-5.844271
WDR37	0.0667479	8.1695083	0.9004445	0.3908304	0.69141	-5.844316
GLYCTK	0.0651945	7.3773303	0.8999876	0.391061	0.69161	-5.844718
HOXA5	0.0600442	8.8366302	0.8999284	0.391091	0.69161	-5.844771
ANKMY2	-0.082312	8.2159252	-0.899858	0.3911265	0.69161	-5.844833
KLHL12	0.0677911	9.6770646	0.8998489	0.3911311	0.69161	-5.844841
FAM118B	-0.065499	7.5080836	-0.89972	0.3911962	0.69162	-5.844954
KNL1	0.066113	7.2479654	0.8994858	0.3913145	0.69162	-5.845161
BCL9L	0.0696144	7.0748077	0.899328	0.3913942	0.69162	-5.8453
VWA8	-0.060698	8.3391173	-0.899177	0.3914707	0.69162	-5.845433
UGDH	-0.141347	9.2262941	-0.899124	0.3914971	0.69162	-5.845479
TLK1	-0.093268	8.3643948	-0.899077	0.3915213	0.69162	-5.845521
PSMA5	0.0669702	12.329449	0.8990697	0.3915248	0.69162	-5.845527
PLK3	-0.057554	6.998415	-0.89903	0.3915446	0.69162	-5.845562
10-Sep	-0.065763	6.812695	-0.89899	0.3915649	0.69162	-5.845597
FOXG1	0.0825586	7.0492478	0.8987548	0.3916839	0.69172	-5.845804
RAB31	-0.094156	6.927038	-0.898611	0.3917564	0.69172	-5.845931
KLF9	0.0698636	6.8283199	0.8985404	0.3917924	0.69172	-5.845993
CATSPER1	-0.067409	6.7274203	-0.898501	0.3918125	0.69172	-5.846028
FCHO1	0.0824619	7.7401479	0.8984098	0.3918584	0.69172	-5.846108
DNAAF1	-0.065062	7.0873517	-0.898158	0.3919858	0.69179	-5.84633
NANOS1	0.0563362	7.3382564	0.8979919	0.3920698	0.69179	-5.846476
CTSO	-0.080334	6.7818133	-0.897982	0.392075	0.69179	-5.846485
MCU	-0.065395	8.0504067	-0.897962	0.392085	0.69179	-5.846502
PUS7	-0.090261	10.699692	-0.897583	0.3922769	0.69204	-5.846836
GRPEL1	-0.082053	10.206584	-0.897296	0.3924221	0.69222	-5.847088
POFUT1	0.0705553	8.410833	0.8971959	0.3924726	0.69222	-5.847176
VGF	0.0609258	7.7852452	0.896971	0.3925865	0.69234	-5.847373

LPCAT2	-0.062826	6.8171961	-0.896712	0.3927178	0.69248	-5.847601
PUS1	-0.068822	8.640881	-0.896627	0.3927609	0.69248	-5.847676
GRB10	0.0654828	6.9816837	0.8965184	0.3928158	0.69248	-5.847771
ALG10	0.0627403	7.2304112	0.8963534	0.3928994	0.69248	-5.847916
MFN1	-0.091445	8.0917812	-0.896331	0.3929108	0.69248	-5.847936
PYGM	0.0617384	6.8774551	0.8962016	0.3929763	0.69248	-5.84805
MYL9	-0.067161	6.775497	-0.896155	0.3929999	0.69248	-5.848091
ODF3L2	0.0709918	6.8396883	0.8960533	0.3930514	0.69249	-5.84818
PELI2	-0.069388	6.7043259	-0.89585	0.3931543	0.69259	-5.848358
MAD2L1BP	-0.05855	8.8048449	-0.895466	0.393349	0.6928	-5.848695
ECI1	-0.054769	9.2192026	-0.89543	0.3933672	0.6928	-5.848727
SERPINB8	-0.056429	8.4498917	-0.895173	0.3934978	0.69289	-5.848953
GNAI3	0.0935546	8.0620344	0.895133	0.3935181	0.69289	-5.848988
DHX35	0.0710691	8.3470154	0.8949042	0.3936341	0.69301	-5.849188
COMTD1	-0.081655	9.1958359	-0.894708	0.3937335	0.69311	-5.84936
ZNF230	-0.069628	6.8177375	-0.894553	0.3938125	0.69316	-5.849497
TFEB	0.053893	7.5795506	0.8944647	0.3938571	0.69316	-5.849574
ARID5A	0.054416	6.843723	0.8942618	0.3939601	0.69325	-5.849752
UBA52	-0.072761	12.005183	-0.894152	0.3940158	0.69327	-5.849848
METTL15	0.1033269	8.3112235	0.8937657	0.394212	0.69332	-5.850187
DNMT3B	-0.065289	7.2978212	-0.893741	0.3942246	0.69332	-5.850208
PIGS	0.0938147	8.683963	0.8937366	0.3942268	0.69332	-5.850212
PTBP1	0.0612385	12.950021	0.8934984	0.3943478	0.69332	-5.850421
AOC2	0.0598744	6.8855443	0.8934941	0.39435	0.69332	-5.850424
WNT10A	0.1325717	8.1151316	0.8933772	0.3944094	0.69332	-5.850527
CD72	-0.069824	8.3527671	-0.893305	0.394446	0.69332	-5.85059
SAA1	0.0659895	6.8693127	0.8932718	0.3944629	0.69332	-5.850619
SGMS1	-0.077729	7.3118295	-0.893255	0.3944712	0.69332	-5.850634
ANXA8	-0.062045	6.6769106	-0.892783	0.3947116	0.69352	-5.851048
APOC2	-0.061961	6.8387091	-0.892759	0.3947233	0.69352	-5.851068
SDK1	0.0580555	6.8696241	0.8927437	0.3947313	0.69352	-5.851082
HIST2H2AA4	-0.067177	8.2026809	-0.892443	0.3948844	0.69371	-5.851345
ZNF224	-0.063068	6.7294626	-0.891848	0.395187	0.69416	-5.851866
ASAH1	-0.059159	7.3952298	-0.891475	0.3953766	0.69438	-5.852192
LINC00515	0.067886	7.2403171	0.8914089	0.3954103	0.69438	-5.852249
LINC02035	-0.067689	6.9549487	-0.891161	0.3955367	0.69446	-5.852467
HHEX	-0.061579	6.7959485	-0.891134	0.3955504	0.69446	-5.85249
BCL11B	0.0578486	6.7601757	0.8908758	0.3956817	0.69461	-5.852716
IFT81	-0.067488	7.0982303	-0.89039	0.3959289	0.69496	-5.85314
PFN4	-0.07927	7.071447	-0.890145	0.396054	0.69509	-5.853354
FKBP1B	-0.084901	6.8893133	-0.889386	0.3964409	0.69563	-5.854017
GOLGA7	-0.056594	7.9573885	-0.889356	0.3964561	0.69563	-5.854043
CDHR1	0.0538817	6.7959232	0.889269	0.3965005	0.69563	-5.854119
MELTF	-0.068578	6.9727703	-0.88875	0.396765	0.69601	-5.854571
C3orf70	-0.063204	6.8031753	-0.88846	0.3969132	0.69618	-5.854824

ETFB	-0.077648	10.529871	-0.888172	0.3970604	0.69636	-5.855076
MMP24	-0.063121	6.8887835	-0.887655	0.3973241	0.69665	-5.855526
MEN1	0.0833258	7.4498909	0.8875742	0.3973654	0.69665	-5.855596
RPL6	-0.060504	13.061905	-0.887538	0.3973839	0.69665	-5.855628
POLG	-0.087457	8.5504344	-0.887473	0.397417	0.69665	-5.855684
KCNS3	0.0598813	6.7482543	0.8872546	0.3975286	0.69676	-5.855875
PLXNA4	-0.061789	6.9511583	-0.88664	0.3978427	0.69723	-5.85641
KCNH6	0.08191	9.4362095	0.8863385	0.3979969	0.69736	-5.856672
RP2	0.0851937	7.5975802	0.886195	0.3980703	0.69736	-5.856797
LOC728903	-0.116243	9.3035367	-0.886007	0.3981663	0.69736	-5.856961
PDGFD	0.068055	7.9198354	0.8859363	0.3982026	0.69736	-5.857022
RNF19A	-0.066342	7.3606617	-0.885928	0.3982068	0.69736	-5.85703
NTPCR	-0.06647	9.360136	-0.885903	0.3982195	0.69736	-5.857051
HERC3	0.0647327	7.4100222	0.8857732	0.398286	0.69736	-5.857164
NOP53	-0.076148	12.867911	-0.885741	0.3983027	0.69736	-5.857193
LUZP2	-0.059822	6.9155981	-0.885275	0.3985407	0.6977	-5.857597
TMPRSS7	0.1102977	7.0403597	0.8848469	0.3987601	0.69795	-5.857969
SMAD4	0.0811987	9.596084	0.8847501	0.3988096	0.69795	-5.858054
GPX7	-0.082808	6.884729	-0.884643	0.3988644	0.69795	-5.858146
RRP7A	-0.090824	10.754401	-0.884604	0.3988842	0.69795	-5.85818
SCP2	-0.053113	6.8467395	-0.884532	0.3989216	0.69795	-5.858243
FKBPL	-0.079856	7.244964	-0.884251	0.3990651	0.69809	-5.858487
INTS11	0.1117344	8.4733496	0.8841859	0.3990986	0.69809	-5.858544
SGSM3	0.0667989	7.3607702	0.883911	0.3992394	0.6982	-5.858782
TMEM181	0.1113487	9.2569875	0.8837697	0.3993119	0.6982	-5.858905
TSGA10	-0.054531	6.84727	-0.883716	0.3993394	0.6982	-5.858952
ERF	0.0648133	7.7563825	0.883689	0.3993532	0.6982	-5.858975
PCBD1	-0.065001	7.0054342	-0.883544	0.3994274	0.69824	-5.859101
MMS19	0.0876802	10.342185	0.8832966	0.3995544	0.69838	-5.859316
HIST2H3D	-0.061662	6.964657	-0.883031	0.3996907	0.69854	-5.859546
EVL	0.0976842	10.087003	0.8827521	0.3998336	0.6987	-5.859788
ELP2	-0.063436	9.4664021	-0.882594	0.3999147	0.69872	-5.859925
CRYZ	-0.121786	10.450713	-0.882552	0.3999362	0.69872	-5.859961
CDC42BPA	-0.063225	6.8883828	-0.88217	0.4001325	0.69897	-5.860293
WDR11	-0.067213	7.9258514	-0.881972	0.4002339	0.699	-5.860464
OR10AD1	0.0926712	7.0384092	0.8819589	0.4002407	0.699	-5.860476
BRWD3	-0.084538	6.9896285	-0.881538	0.4004567	0.69918	-5.86084
TRADD	0.0701106	7.5465984	0.8814827	0.4004852	0.69918	-5.860888
TRIP12	-0.137633	9.1567741	-0.88143	0.4005123	0.69918	-5.860934
TMEM50B	-0.096265	8.530018	-0.881286	0.4005862	0.69918	-5.861059
MTMR3	0.0627917	7.5277641	0.8812853	0.4005866	0.69918	-5.861059
RPL3	0.0703612	13.852918	0.8811204	0.4006713	0.69921	-5.861202
HAND2	0.0563839	6.93937	0.8810703	0.400697	0.69921	-5.861245
SOX12	-0.073703	6.9878296	-0.880894	0.4007878	0.69928	-5.861398
WDR35	0.0622835	7.4257354	0.8805633	0.4009575	0.69949	-5.861684

ELOA3B	-0.092688	7.0694166	-0.880345	0.4010698	0.69958	-5.861873
TIFAB	-0.065279	6.8140974	-0.880281	0.4011027	0.69958	-5.861929
ARL2BP	-0.079879	10.205335	-0.879856	0.4013211	0.69988	-5.862296
C1orf116	0.0804826	6.8904698	0.8794907	0.4015091	0.70003	-5.862612
RNU4-2	-0.074263	8.1248839	-0.879475	0.401517	0.70003	-5.862625
GNG2	0.0824515	7.7979543	0.8791979	0.4016598	0.70003	-5.862865
WDR34	0.0827975	8.2127404	0.8791932	0.4016622	0.70003	-5.862869
CMTR1	0.0738563	8.085339	0.8791586	0.40168	0.70003	-5.862899
RBPMS	0.054671	6.8765887	0.8791243	0.4016976	0.70003	-5.862929
UBXN7	0.0904089	7.1746368	0.8789082	0.4018089	0.70014	-5.863116
JOSD2	0.0697609	7.0357321	0.8784955	0.4020213	0.70043	-5.863472
CAPS	-0.053672	7.0502718	-0.878352	0.4020953	0.70048	-5.863596
RELT	0.0529008	7.2669639	0.8782108	0.402168	0.70052	-5.863718
ZBED8	-0.077555	7.2395475	-0.878057	0.4022472	0.70057	-5.863851
NSA2	0.0750159	12.408153	0.8776503	0.4024567	0.7007	-5.864202
ZNF527	-0.066437	6.894212	-0.877621	0.4024719	0.7007	-5.864227
C17orf74	0.0606074	7.002046	0.8776051	0.4024801	0.7007	-5.864241
TMPRSS4	0.0620726	6.7605142	0.8775477	0.4025096	0.7007	-5.86429
KMT2E	0.0533851	7.2653154	0.8772859	0.4026446	0.70084	-5.864516
WDR20	-0.054247	8.0224025	-0.877086	0.4027477	0.70084	-5.864689
EIF2B1	0.0643727	10.186365	0.8770436	0.4027695	0.70084	-5.864725
PPP2CA	0.0863888	11.09801	0.8770123	0.4027856	0.70084	-5.864752
EEF1D	0.0643438	9.4361073	0.8766373	0.402979	0.70109	-5.865076
HAS2	0.0565385	6.7944518	0.8760891	0.4032618	0.7015	-5.865548
CYTH3	0.0664521	7.5556447	0.8756181	0.403505	0.7018	-5.865954
FAM3A	0.0880823	10.108376	0.8755575	0.4035363	0.7018	-5.866006
MED30	-0.068632	9.6744186	-0.875435	0.4035997	0.7018	-5.866112
ATL1	0.0572158	6.9122759	0.8753393	0.4036489	0.7018	-5.866194
CRELD1	-0.051604	7.2133825	-0.875295	0.4036717	0.7018	-5.866232
DNAH14	-0.074161	6.7582479	-0.875099	0.4037729	0.70189	-5.866401
BARX1	0.064204	6.8094243	0.8746833	0.4039878	0.70208	-5.866759
ABHD13	-0.052709	6.8673899	-0.87448	0.4040926	0.70208	-5.866933
ERLIN2	-0.055267	7.3614264	-0.8744	0.4041343	0.70208	-5.867003
MKNK1	0.0647879	7.7512959	0.8743328	0.4041689	0.70208	-5.867061
TMEM192	0.0618363	8.1268755	0.8743212	0.4041749	0.70208	-5.867071
FAM25G	-0.055074	6.8800578	-0.874244	0.4042149	0.70208	-5.867137
SURF1	0.0568304	9.0810804	0.8742233	0.4042255	0.70208	-5.867155
HSPBP1	0.0647022	7.5603366	0.8741288	0.4042743	0.70208	-5.867236
ATG2A	0.0948914	8.0374913	0.8740493	0.4043155	0.70208	-5.867304
CLSTN2	0.0688121	6.8022519	0.8738404	0.4044235	0.70218	-5.867484
KRT18	-0.059995	6.9339107	-0.873666	0.4045134	0.70226	-5.867634
SRFBP1	0.0856617	8.0825224	0.8734003	0.4046511	0.70234	-5.867862
PRAF2	0.0699238	7.4793674	0.8730256	0.404845	0.70234	-5.868184
COMT	-0.057676	9.2639805	-0.872993	0.404862	0.70234	-5.868213
UBE2J2	-0.071827	7.757014	-0.872914	0.4049029	0.70234	-5.868281

ZYX	0.0734362	8.1350971	0.8728211	0.4049508	0.70234	-5.86836
RAB15	0.0554912	6.7738607	0.8727655	0.4049796	0.70234	-5.868408
ACTL10	0.0617866	6.80108	0.872747	0.4049891	0.70234	-5.868424
LDHD	0.066184	6.8255445	0.8727299	0.404998	0.70234	-5.868438
EPS8L1	-0.055977	6.8365677	-0.872646	0.4050415	0.70234	-5.868511
ERLIN1	0.0687989	7.5868482	0.872613	0.4050585	0.70234	-5.868539
BTBD1	0.0934069	9.4235502	0.8724671	0.405134	0.70234	-5.868664
DHRS12	-0.053512	7.0550859	-0.872339	0.4052002	0.70234	-5.868774
ZNF330	-0.083003	9.1270721	-0.872318	0.4052113	0.70234	-5.868792
ZBTB17	0.0882073	8.5587277	0.8722502	0.4052464	0.70234	-5.86885
GNPAT	-0.064882	9.6948143	-0.872181	0.4052823	0.70234	-5.86891
CD9	0.0826218	7.1157802	0.8719985	0.4053767	0.70237	-5.869067
LAMP5	-0.055199	6.7215414	-0.871833	0.4054626	0.70237	-5.869209
WDR46	0.0901308	9.4868116	0.8717679	0.4054961	0.70237	-5.869264
ACADVL	0.0846273	9.2103673	0.8716423	0.4055612	0.70237	-5.869372
ZNFX1	0.0747434	8.4653362	0.8715609	0.4056034	0.70237	-5.869442
ANKRD9	0.0524982	6.9044464	0.8714864	0.405642	0.70237	-5.869506
LMLN	-0.067543	6.8133285	-0.871402	0.4056856	0.70237	-5.869578
SRP19	0.0764008	9.9983357	0.871401	0.4056863	0.70237	-5.869579
PLCB2	-0.068381	6.9145082	-0.871283	0.4057475	0.70239	-5.869681
MAP2K3	-0.057485	8.0158068	-0.871087	0.405849	0.70249	-5.869849
MOB2	0.0744552	7.7549799	0.8709246	0.4059332	0.70255	-5.869988
LOC1001324	0.0822773	7.0488197	0.8707116	0.4060436	0.70266	-5.87017
DHX34	-0.068638	8.4180336	-0.870496	0.4061554	0.70275	-5.870355
CNOT11	0.0742097	11.329215	0.8704238	0.4061929	0.70275	-5.870417
SNORA80A	-0.083817	7.8500192	-0.87024	0.4062884	0.70283	-5.870575
TTC7B	-0.072358	6.9665892	-0.870004	0.4064109	0.70296	-5.870777
ZNF195	0.0768308	8.6148518	0.8698684	0.406481	0.703	-5.870893
GALNT11	0.060056	6.6718721	0.8696076	0.4066164	0.70315	-5.871116
KISS1	0.0571923	6.827519	0.8693835	0.4067327	0.70327	-5.871308
FAR2	0.059789	6.8166836	0.8689637	0.4069507	0.70356	-5.871668
RASL10B	-0.057854	6.8397673	-0.868698	0.4070886	0.70356	-5.871895
PSME3	0.0868827	10.509725	0.8686662	0.4071052	0.70356	-5.871922
NBN	0.0670981	9.1498589	0.8682447	0.4073242	0.70356	-5.872283
POLR1E	-0.070794	10.128462	-0.868143	0.4073771	0.70356	-5.87237
ASPHD1	0.0523094	6.9403215	0.8679791	0.4074623	0.70356	-5.87251
RABEP1	0.0974498	9.7906845	0.8679613	0.4074715	0.70356	-5.872525
MAGEB2	0.0650299	6.7653934	0.8679525	0.4074761	0.70356	-5.872533
JAGN1	0.0610283	7.9701735	0.8679021	0.4075023	0.70356	-5.872576
CD151	0.0793656	8.6931536	0.8678805	0.4075135	0.70356	-5.872594
NDN	0.058005	6.7804152	0.8677953	0.4075578	0.70356	-5.872667
OR2W3	0.0820426	7.0210543	0.8677025	0.4076061	0.70356	-5.872746
VAPA	-0.058452	7.3012679	-0.86769	0.4076123	0.70356	-5.872757
WDR82	0.1402825	9.5153266	0.8676711	0.4076224	0.70356	-5.872773
PACRGL	-0.067861	6.9009373	-0.867612	0.4076534	0.70356	-5.872824

C1orf140	-0.055402	6.8671739	-0.867574	0.407673	0.70356	-5.872857
FMO6P	-0.068833	7.1966658	-0.866766	0.4080932	0.70398	-5.873547
EXOSC3	0.0690258	10.701394	0.8667378	0.4081079	0.70398	-5.873571
ANKRD19P	0.066127	6.7704926	0.8667306	0.4081116	0.70398	-5.873577
RFK	-0.053933	6.9831569	-0.866681	0.4081372	0.70398	-5.873619
PIK3R4	0.0640363	7.7591984	0.8665538	0.4082036	0.70398	-5.873728
OTOR	-0.089408	6.8806011	-0.86643	0.4082679	0.70398	-5.873833
SLC22A2	-0.085865	6.8794288	-0.866361	0.4083041	0.70398	-5.873893
IFITM1	0.0703287	6.9338677	0.8663563	0.4083064	0.70398	-5.873897
THOC7	0.0776386	11.909162	0.8660383	0.408472	0.70419	-5.874168
PDZD8	0.0567833	7.8564735	0.865739	0.4086279	0.70419	-5.874423
ZNF763	-0.051659	7.4776564	-0.865669	0.4086645	0.70419	-5.874483
NFKBID	0.0750571	7.2422122	0.8655805	0.4087104	0.70419	-5.874559
DCLK1	-0.052424	6.9984863	-0.865576	0.4087125	0.70419	-5.874562
NGLY1	-0.096101	9.5355403	-0.865569	0.4087166	0.70419	-5.874569
PMPCB	-0.112159	11.334121	-0.865429	0.4087891	0.70421	-5.874687
ZKSCAN8	-0.061082	7.1191264	-0.865306	0.4088536	0.70421	-5.874793
PPP1R42	-0.07952	6.9062329	-0.865271	0.4088718	0.70421	-5.874823
C6orf48	-0.057932	9.2753701	-0.865084	0.4089688	0.70427	-5.874982
ROBO1	-0.0553	6.8539861	-0.86496	0.4090338	0.70427	-5.875088
SMG1P2	-0.073033	7.7198784	-0.864925	0.4090518	0.70427	-5.875117
HINT3	0.0937201	7.7718928	0.8646268	0.4092074	0.70442	-5.875372
TSPYL1	-0.082285	9.5164905	-0.864549	0.4092479	0.70442	-5.875438
PSD4	0.0744001	8.2480023	0.8644587	0.4092951	0.70442	-5.875515
RRP8	-0.098269	9.5840874	-0.86439	0.4093311	0.70442	-5.875574
NCKAP1L	0.0911762	10.290656	0.8642501	0.4094038	0.70446	-5.875693
DLG4	-0.064059	7.6216919	-0.864048	0.4095094	0.70447	-5.875865
SDR16C5	0.0765562	7.0295659	0.8639931	0.4095379	0.70447	-5.875912
LARP4	0.0936694	8.3957168	0.8639685	0.4095507	0.70447	-5.875933
BSPH1	-0.06557	6.9465873	-0.863804	0.4096364	0.70447	-5.876072
DHX8	-0.070332	7.2848351	-0.863777	0.4096507	0.70447	-5.876096
ZNF507	0.0727985	7.4291001	0.8635779	0.4097545	0.70457	-5.876265
TLR7	-0.061678	6.9481007	-0.862917	0.4100997	0.705	-5.876828
CXCL17	0.0732267	6.9050758	0.8629151	0.4101005	0.705	-5.876829
TNIP3	-0.055352	6.8321938	-0.862753	0.4101854	0.70506	-5.876968
OAT	0.0794264	10.077556	0.8624579	0.4103393	0.70524	-5.877218
ZNF592	0.0608229	6.9275024	0.8621654	0.4104921	0.7053	-5.877467
SIM1	0.0545366	6.8593822	0.8621529	0.4104986	0.7053	-5.877478
RNF128	0.0601674	7.0071342	0.8620259	0.410565	0.7053	-5.877586
BSPRY	-0.072908	6.9914899	-0.861901	0.4106304	0.7053	-5.877692
H1FX	0.0577336	7.1674685	0.8618537	0.410655	0.7053	-5.877732
TMEM14EP	0.0579463	6.9351094	0.861836	0.4106642	0.7053	-5.877747
C4orf32	0.0847462	8.7012643	0.8616936	0.4107387	0.70535	-5.877868
KCNK2	-0.052812	6.7351911	-0.860997	0.4111031	0.70589	-5.87846
FAM231D	-0.056813	7.2372072	-0.860862	0.4111734	0.70589	-5.878574

LMF1	-0.087758	6.8244647	-0.860811	0.4112004	0.70589	-5.878618
MAGEC2	0.0668177	6.9795436	0.8605163	0.4113544	0.70601	-5.878868
LEFTY1	-0.066258	6.8455814	-0.860488	0.411369	0.70601	-5.878892
CDK13	0.0668626	8.3413534	0.8602142	0.4115124	0.70618	-5.879124
SLC44A4	0.0517956	6.865245	0.8597848	0.4117372	0.70639	-5.879489
QSER1	0.0775935	7.1100837	0.8597013	0.411781	0.70639	-5.879559
PLCB1	0.064603	6.8504184	0.8597	0.4117816	0.70639	-5.879561
MEGF6	-0.060077	6.7479899	-0.859451	0.4119119	0.70653	-5.879771
MUL1	0.0565912	9.5276714	0.8590689	0.4121122	0.70673	-5.880096
SSR2	0.0816999	10.093185	0.8590433	0.4121256	0.70673	-5.880117
RBP5	0.0619351	6.945872	0.8588164	0.4122445	0.70685	-5.88031
CD6	-0.055142	6.7356798	-0.858582	0.4123675	0.70698	-5.880509
CDH2	0.0564971	6.8049576	0.8579786	0.4126837	0.70744	-5.881019
DDAH1	0.0682005	6.8459327	0.8578447	0.412754	0.70747	-5.881133
TMEM218	0.0565337	7.8329337	0.8577073	0.412826	0.70751	-5.881249
DOCK8	0.1041571	8.7723649	0.8575483	0.4129094	0.70757	-5.881384
EPAS1	-0.065819	6.7208108	-0.85742	0.4129766	0.70761	-5.881492
ME1	-0.052178	6.8167761	-0.857315	0.4130317	0.70762	-5.881581
FTH1P8	-0.087786	8.9247019	-0.857153	0.4131168	0.70768	-5.881718
ERBB2	-0.063595	7.186342	-0.856788	0.4133082	0.70793	-5.882027
MICU1	-0.075672	7.8480029	-0.856631	0.4133908	0.70798	-5.88216
ZNF772	-0.051835	6.7872126	-0.856512	0.4134534	0.70801	-5.88226
ATXN10	-0.061996	7.8962574	-0.856092	0.4136739	0.7083	-5.882615
STRIP1	0.0979194	7.870273	0.8559457	0.4137508	0.70833	-5.882739
KIR2DL5B	0.0599644	6.9038578	0.8558764	0.4137872	0.70833	-5.882797
SMPD1	-0.057001	7.0150944	-0.855586	0.4139399	0.70844	-5.883043
KLRG1	-0.077069	8.4721143	-0.85545	0.4140113	0.70844	-5.883158
GNS	0.0858076	9.7909569	0.8553435	0.4140672	0.70844	-5.883248
SLITRK2	-0.054991	6.8737025	-0.855244	0.4141193	0.70844	-5.883331
SNORA48	-0.087596	7.0175882	-0.855162	0.4141628	0.70844	-5.883401
ARHGEF16	0.0526983	6.7927916	0.8551328	0.414178	0.70844	-5.883426
GFPT1	0.0570167	8.3271639	0.8550973	0.4141967	0.70844	-5.883456
RPTOR	0.0528105	7.0312098	0.8549322	0.4142835	0.70844	-5.883595
SPATA31E1	-0.061536	6.8019364	-0.854857	0.4143231	0.70844	-5.883659
PXN	0.0611563	7.001628	0.8548254	0.4143396	0.70844	-5.883685
WFDC3	-0.055728	6.8306304	-0.854743	0.414383	0.70844	-5.883755
ADAM23	0.0641024	7.9593811	0.8545969	0.4144598	0.70844	-5.883878
HIST2H4A	-0.06853	7.2647559	-0.854506	0.4145076	0.70844	-5.883955
ATP10A	-0.050816	7.4127539	-0.854425	0.4145501	0.70844	-5.884023
ZNF789	-0.064843	7.9410078	-0.854234	0.4146506	0.70844	-5.884184
ARL3	0.0759113	7.5700208	0.8541806	0.4146788	0.70844	-5.884229
GBA	0.079894	7.9901117	0.8539868	0.4147808	0.70844	-5.884393
TPTE	-0.070218	6.8025815	-0.853864	0.4148454	0.70844	-5.884496
MAZ	0.0738424	7.3271381	0.8537738	0.4148929	0.70844	-5.884572
ZGPAT	-0.062424	8.0730292	-0.853727	0.4149175	0.70844	-5.884612

ASTN2	-0.061442	7.0701294	-0.853637	0.414965	0.70844	-5.884688
RSRC1	0.0581212	8.3205679	0.8536321	0.4149675	0.70844	-5.884692
SAMD9L	-0.054181	6.8238575	-0.853629	0.4149689	0.70844	-5.884694
ICAM2	-0.056826	8.9698676	-0.853391	0.4150943	0.70857	-5.884895
COX11P1	0.0570238	7.5091639	0.8530376	0.4152806	0.70881	-5.885193
IFNW1	-0.051673	6.9320967	-0.852645	0.4154875	0.70901	-5.885524
RTL8C	0.0556783	7.0290455	0.8525952	0.4155136	0.70901	-5.885566
OR52K2	-0.060189	6.8192647	-0.852444	0.4155932	0.70901	-5.885693
CBLL1	0.0676082	8.5992502	0.852415	0.4156086	0.70901	-5.885717
CELA3A	0.0573832	6.9258546	0.8523482	0.4156438	0.70901	-5.885773
SEC14L3	0.0696887	6.822037	0.8519678	0.4158443	0.70915	-5.886094
NEK3	-0.06029	7.4632751	-0.85195	0.4158539	0.70915	-5.886109
8-Mar	-0.050981	6.9991834	-0.851867	0.4158973	0.70915	-5.886178
ATP7A	0.0540647	6.9416928	0.8518242	0.41592	0.70915	-5.886215
KATNBL1P6	-0.053666	6.9724939	-0.851597	0.41604	0.70928	-5.886406
AZIN1	0.0653224	9.3029148	0.8513269	0.4161823	0.70939	-5.886633
FAM227B	0.0605679	6.8098578	0.8511882	0.4162554	0.70939	-5.88675
OR14I1	-0.050805	6.8741411	-0.8511	0.416302	0.70939	-5.886824
PRMT2	-0.056338	7.7671165	-0.851055	0.4163257	0.70939	-5.886862
SLC25A42	-0.052903	8.1573955	-0.850964	0.4163738	0.70939	-5.886938
VPS26B	0.062894	7.5787165	0.8508269	0.4164461	0.70939	-5.887053
ZNF419	0.0593043	7.8848391	0.8508212	0.4164491	0.70939	-5.887058
KAT14	-0.06897	8.5630347	-0.850602	0.4165647	0.70949	-5.887242
DDX47	-0.063896	11.02589	-0.8505	0.4166184	0.70949	-5.887328
GAMT	0.0590417	8.5575411	0.8503475	0.4166991	0.70949	-5.887456
TMEM35A	-0.056866	6.8839248	-0.850342	0.4167018	0.70949	-5.887461
TPTEP1	0.0649525	6.8378791	0.8500977	0.416831	0.70952	-5.887666
MIRLET7D	-0.085405	7.0583402	-0.849984	0.4168913	0.70952	-5.887762
CAPG	-0.059021	6.9526109	-0.849928	0.4169207	0.70952	-5.887809
GLG1	0.096556	9.9878402	0.8498758	0.4169482	0.70952	-5.887853
ZNF222	0.0714506	6.9153258	0.8498106	0.4169827	0.70952	-5.887907
MRPL49	-0.055904	8.9149063	-0.849714	0.4170334	0.70952	-5.887988
TMEM241	0.1473692	8.2923493	0.8496713	0.4170562	0.70952	-5.888024
PI4K2A	-0.065615	7.6171791	-0.849494	0.41715	0.70959	-5.888174
DPYSL5	0.0904222	7.0187162	0.8488479	0.4174913	0.71007	-5.888716
LINC01164	0.0623115	6.9083283	0.8487322	0.4175525	0.71007	-5.888813
KCNE2	0.0559888	6.7253641	0.8486892	0.4175752	0.71007	-5.888849
KIF6	0.0693112	7.0009437	0.8484957	0.4176776	0.71015	-5.889011
BRD1	0.1104928	7.4937014	0.8484144	0.4177206	0.71015	-5.889079
CANX	0.0679514	9.2300014	0.8482131	0.4178271	0.71025	-5.889248
CHRNA4	-0.072257	6.9092458	-0.848055	0.4179107	0.71031	-5.889381
PART1	0.0874969	7.0321346	0.8478631	0.4180122	0.7104	-5.889542
TMEM45A	0.0559776	6.8297525	0.8473773	0.4182693	0.71074	-5.889949
HSF1	0.0865363	7.1260242	0.8472999	0.4183102	0.71074	-5.890013
NBPF1	-0.054255	7.3068843	-0.847156	0.4183866	0.71078	-5.890134

GNRH1	-0.078909	7.223326	-0.846988	0.4184754	0.71085	-5.890275
CHST11	0.0752542	7.0644542	0.8468652	0.4185404	0.71088	-5.890378
PRKAB1	-0.078756	8.6538438	-0.84673	0.4186119	0.71092	-5.890491
MBNL2	-0.084752	7.6865934	-0.846348	0.4188145	0.71118	-5.890811
SP110	-0.062986	8.2856204	-0.846208	0.4188886	0.71122	-5.890928
DPCR1	-0.051033	6.9490664	-0.845814	0.4190971	0.71146	-5.891257
SLC35E2	0.0735014	6.8580023	0.8457569	0.4191276	0.71146	-5.891305
VCAN	0.052639	6.7860852	0.8454809	0.4192739	0.71153	-5.891536
SNORD96B	-0.070101	6.838699	-0.845416	0.4193086	0.71153	-5.891591
ZKSCAN5	-0.078388	7.2368939	-0.845237	0.4194033	0.71153	-5.89174
RAVER2	0.0578588	6.7997017	0.8452071	0.4194191	0.71153	-5.891765
ANXA2P3	-0.069597	6.8981021	-0.845138	0.4194556	0.71153	-5.891823
ZNF845	-0.102758	7.7117643	-0.845136	0.4194568	0.71153	-5.891824
KRT17	0.060321	6.8151757	0.8447527	0.4196602	0.71179	-5.892145
KLRF1	0.0534888	6.8810172	0.8443919	0.4198516	0.7119	-5.892446
RWDD3	0.0680973	7.3060405	0.8443523	0.4198726	0.7119	-5.892479
PLSCR1	-0.060191	7.0672618	-0.84434	0.4198789	0.7119	-5.892489
FXYD5	-0.061755	9.1501838	-0.844262	0.4199207	0.7119	-5.892555
EPB41L1	-0.065449	6.8931883	-0.844019	0.4200496	0.71199	-5.892758
GPR107	0.0584852	6.9968887	0.8439795	0.4200705	0.71199	-5.892791
OTUB2	-0.05381	6.8675588	-0.843801	0.420165	0.71202	-5.892939
ATP6V1G2	-0.083305	7.4960175	-0.843757	0.4201888	0.71202	-5.892977
CSTF2	-0.095224	9.5721109	-0.84307	0.4205533	0.71253	-5.893549
SMIM14	-0.057925	10.58744	-0.843011	0.4205846	0.71253	-5.893599
SLC48A1	-0.054991	7.4886548	-0.842739	0.4207291	0.71265	-5.893825
GALK1	-0.077423	10.207846	-0.842689	0.4207557	0.71265	-5.893867
TCP10L	-0.069218	6.9798352	-0.842443	0.4208866	0.71276	-5.894072
BUD13	0.0621547	8.4813567	0.8423814	0.4209195	0.71276	-5.894124
ZDHHC3	0.0559608	8.0076441	0.8421817	0.4210257	0.71286	-5.89429
ADA	-0.078819	9.6413834	-0.841995	0.4211252	0.71295	-5.894446
CXorf38	-0.103203	8.4753537	-0.841871	0.4211911	0.71298	-5.89455
G3BP2	-0.055201	10.038239	-0.841248	0.4215222	0.71319	-5.895068
SUPV3L1	-0.070361	9.4210122	-0.841233	0.4215306	0.71319	-5.895081
SLC29A2	0.0589784	8.3572114	0.8411382	0.4215808	0.71319	-5.89516
CDC42BPB	-0.064551	6.7417822	-0.841112	0.4215947	0.71319	-5.895181
C6orf203	-0.052689	7.8367258	-0.841054	0.4216257	0.71319	-5.89523
WDR77	0.0600028	9.9352032	0.8410169	0.4216453	0.71319	-5.895261
CSTA	0.0526872	6.7483357	0.8409948	0.4216571	0.71319	-5.895279
ZNF641	-0.097113	7.0866691	-0.840634	0.4218489	0.71335	-5.895579
RCE1	0.1029877	8.1399914	0.8406301	0.4218512	0.71335	-5.895583
PPARD	0.0535078	6.9932669	0.8404253	0.4219603	0.71345	-5.895753
NR1I2	0.0640959	6.898105	0.8403394	0.422006	0.71345	-5.895825
PPBP	0.0653193	7.2425898	0.8400825	0.4221429	0.71359	-5.896038
ASPHD2	0.0753663	8.4808315	0.8396326	0.4223826	0.71392	-5.896412
HERC4	-0.076206	7.6954631	-0.839481	0.4224634	0.71397	-5.896538

GJC1	-0.079557	9.8092093	-0.839384	0.4225151	0.71398	-5.896619
IGDCC3	0.0563017	6.9337592	0.8390647	0.4226853	0.71415	-5.896884
ACPP	0.0585331	6.8466841	0.8389511	0.4227458	0.71415	-5.896979
SLC6A5	-0.052619	6.8811077	-0.838887	0.42278	0.71415	-5.897032
MTFP1	-0.053316	9.7764402	-0.838823	0.4228141	0.71415	-5.897085
TTTY11	-0.062499	6.8341637	-0.838305	0.4230903	0.71449	-5.897515
COX6C	0.0647094	13.400489	0.8382593	0.4231148	0.71449	-5.897553
ST7	-0.070483	8.361235	-0.837882	0.4233163	0.71475	-5.897867
DIP2C	-0.056023	6.8000646	-0.837716	0.4234046	0.71479	-5.898004
SCO1	0.0919291	10.989377	0.8374752	0.4235333	0.71479	-5.898204
SULT1C4	0.0529519	6.8348679	0.8374304	0.4235572	0.71479	-5.898241
E2F4	0.0767159	10.16039	0.8373623	0.4235936	0.71479	-5.898297
C3orf35	-0.063974	6.9873776	-0.837353	0.4235983	0.71479	-5.898305
YTHDC1	0.0520656	8.1663588	0.8372569	0.4236498	0.71479	-5.898385
ARHGAP32	-0.05801	6.8516188	-0.837051	0.4237598	0.71479	-5.898556
ANKRD13A	-0.081441	11.024424	-0.836985	0.4237952	0.71479	-5.898611
TREML1	-0.064414	7.0155285	-0.836892	0.423845	0.71479	-5.898688
MYL6	-0.06747	12.698704	-0.836805	0.4238914	0.71479	-5.89876
PGLYRP4	-0.082517	6.9202718	-0.836746	0.4239227	0.71479	-5.898808
FUOM	-0.05563	6.7225502	-0.836732	0.4239301	0.71479	-5.89882
TMEM207	-0.061057	7.0530729	-0.836324	0.4241483	0.71508	-5.899158
RCCD1	-0.063807	7.5934479	-0.835975	0.4243346	0.71521	-5.899447
POP5	-0.06451	8.4432478	-0.835867	0.4243926	0.71521	-5.899537
TBC1D5	0.0924147	7.2116884	0.8358611	0.4243956	0.71521	-5.899542
OTX2	0.050246	6.7519908	0.8358139	0.4244209	0.71521	-5.899581
COL22A1	-0.102	6.869776	-0.835616	0.4245268	0.71527	-5.899745
PPP1R8	-0.057752	8.7495621	-0.835568	0.4245525	0.71527	-5.899785
NECAB1	0.0542205	6.7574133	0.8353994	0.4246425	0.71533	-5.899924
VAV3	0.0555748	6.8376202	0.8349987	0.4248569	0.71561	-5.900256
EFR3B	0.066035	7.0217594	0.8345923	0.4250744	0.7159	-5.900592
MTPN	0.06763	10.766867	0.8340286	0.4253761	0.71632	-5.901058
ZNF513	-0.057624	7.1251299	-0.833021	0.4259162	0.7171	-5.901891
NCBP1	-0.0646	10.109815	-0.832982	0.425937	0.7171	-5.901923
CSPG5	-0.054447	6.8424976	-0.832612	0.4261351	0.71735	-5.902228
RIOK3	0.0507835	8.8604982	0.8322937	0.4263058	0.71756	-5.902491
CSPG4	-0.057551	6.8401507	-0.832061	0.4264308	0.71768	-5.902683
HDLBP	0.0536448	7.0711299	0.8319677	0.4264807	0.71769	-5.902759
UNC45B	0.0969262	6.9211401	0.8317326	0.4266068	0.71781	-5.902953
ZNF805	0.0798569	7.0743004	0.8314314	0.4267684	0.718	-5.903202
RNLS	0.0538812	6.9121507	0.8312038	0.4268906	0.71807	-5.903389
YBX3	0.0536581	13.324575	0.8310423	0.4269772	0.71807	-5.903522
POU5F1	0.0656366	6.9560659	0.8308836	0.4270625	0.71807	-5.903653
LPIN3	-0.072827	6.8992986	-0.830874	0.4270677	0.71807	-5.903661
IL9	-0.059685	6.8522082	-0.830783	0.4271166	0.71807	-5.903736
PIGX	-0.068641	7.9766178	-0.830765	0.4271263	0.71807	-5.903751

LOC1000085	0.1254846	11.978169	0.830718	0.4271514	0.71807	-5.90379
SCD5	0.0700174	7.0200239	0.8302457	0.427405	0.71813	-5.904179
FAM218A	0.0525521	6.8256201	0.8301911	0.4274344	0.71813	-5.904223
SGIP1	-0.050622	6.7088747	-0.830128	0.4274682	0.71813	-5.904275
DEFB1	-0.080968	6.9479943	-0.83011	0.427478	0.71813	-5.90429
GNA11	0.0595534	7.3475884	0.8300411	0.427515	0.71813	-5.904347
FAM111A	0.0704495	8.936066	0.830011	0.4275311	0.71813	-5.904372
SLC6A9	-0.060034	7.1960182	-0.829999	0.4275377	0.71813	-5.904382
PNOC	0.0535244	7.5421518	0.8299138	0.4275834	0.71813	-5.904452
C17orf58	0.0637104	9.4697911	0.8294194	0.4278491	0.7185	-5.904859
OR4N2	0.0549045	6.8904724	0.8292636	0.4279329	0.71855	-5.904987
NPAS3	0.0656766	6.9421305	0.8287562	0.4282057	0.71892	-5.905404
TBC1D19	-0.095597	7.499892	-0.82841	0.4283921	0.71892	-5.905689
C8orf44	-0.065171	7.0353591	-0.828405	0.4283948	0.71892	-5.905693
PKP4	-0.052924	7.9420453	-0.828382	0.4284069	0.71892	-5.905711
BOLA2B	0.0558615	7.005405	0.8283254	0.4284375	0.71892	-5.905758
IL25	-0.070901	7.4161482	-0.828313	0.4284442	0.71892	-5.905768
CCDC57	0.0577527	6.9164536	0.8279173	0.4286571	0.71918	-5.906093
CMTM4	0.0505724	7.0923763	0.8277744	0.4287341	0.71918	-5.906211
ITGA6	-0.067597	7.1407261	-0.827746	0.4287493	0.71918	-5.906234
IGSF10	0.0615354	6.8370127	0.8276414	0.4288057	0.71919	-5.90632
WWC1	0.0587517	7.8822514	0.8274404	0.4289139	0.71929	-5.906485
SLC25A31	-0.078192	6.9167776	-0.827253	0.4290149	0.71933	-5.906639
METTL27	-0.064917	6.8781991	-0.82721	0.4290378	0.71933	-5.906674
ZDHHC1	0.0577801	6.8830176	0.8270327	0.4291335	0.71941	-5.90682
FMC1	-0.056825	9.6190914	-0.826887	0.429212	0.71946	-5.906939
CAMKK1	0.059098	6.9416709	0.8267998	0.429259	0.71946	-5.907011
SOX30	-0.082511	6.9822216	-0.826616	0.4293581	0.71953	-5.907162
SLC7A6OS	0.0562823	8.0117759	0.8265393	0.4293993	0.71953	-5.907225
ZC3H11A	0.0595356	6.8273849	0.8262155	0.4295739	0.7197	-5.90749
CD164	-0.069711	7.4278852	-0.826088	0.4296425	0.7197	-5.907595
SMIM8	-0.064513	7.6986977	-0.826073	0.4296507	0.7197	-5.907607
HIF3A	0.0807224	6.9950921	0.825899	0.4297445	0.71971	-5.90775
ZNF837	-0.079714	7.4549191	-0.825885	0.429752	0.71971	-5.907761
ABCD4	-0.052796	6.8451786	-0.825742	0.4298291	0.71975	-5.907878
RHBDF2	-0.069847	8.646624	-0.825382	0.4300233	0.71991	-5.908173
KIAA1328	-0.057791	6.9566872	-0.825353	0.4300388	0.71991	-5.908197
VPS33B	0.0547504	7.8622563	0.8252949	0.4300703	0.71991	-5.908245
IPPK	-0.062119	7.6357308	-0.824839	0.4303164	0.72018	-5.908618
SIDT1	0.0701977	7.2668883	0.8248081	0.430333	0.72018	-5.908643
FAM45A	-0.08099	9.3977788	-0.824715	0.430383	0.72018	-5.908719
PSORS1C2	-0.051117	6.8119977	-0.824442	0.4305304	0.72022	-5.908943
STAU2	0.0552612	8.4777448	0.8244013	0.4305526	0.72022	-5.908976
DLEU2	-0.082018	7.0375309	-0.824366	0.4305716	0.72022	-5.909005
EIF4EBP1	0.0612026	6.8969356	0.8242221	0.4306494	0.72022	-5.909123

OR52N2	-0.06601	7.0253849	-0.824215	0.4306531	0.72022	-5.909129
LAMA5	-0.051522	6.8674529	-0.823693	0.4309353	0.72061	-5.909556
CABLES2	0.0607692	7.7506767	0.8232227	0.4311892	0.72095	-5.90994
PBRM1	0.0507757	7.6019481	0.8231359	0.4312362	0.72095	-5.910011
LPCAT3	0.077975	8.8743336	0.8229324	0.4313462	0.72105	-5.910178
TBC1D31	-0.085976	7.9454625	-0.822295	0.4316906	0.72134	-5.910698
OSBPL10	0.0643087	10.231722	0.8222161	0.4317335	0.72134	-5.910763
LOC401052	-0.076393	6.8428399	-0.822193	0.4317461	0.72134	-5.910782
DENND3	-0.050873	6.8626161	-0.822074	0.4318105	0.72134	-5.910879
MKS1	0.0601389	6.8744147	0.8220717	0.4318116	0.72134	-5.910881
KIR2DS5	0.0564472	6.8075433	0.8219796	0.4318614	0.72134	-5.910956
FAM78A	0.066715	7.0658904	0.8219755	0.4318636	0.72134	-5.910959
OR1F1	-0.052673	6.854438	-0.821298	0.4322301	0.72183	-5.911512
PLPP3	0.0626339	6.8604515	0.8211957	0.4322857	0.72183	-5.911595
DSG1	0.0675834	6.9276198	0.8211058	0.4323343	0.72183	-5.911669
SMR3B	0.0541793	6.8001264	0.8209797	0.4324026	0.72183	-5.911772
NPDC1	0.0623005	6.8646524	0.8209734	0.432406	0.72183	-5.911777
HIST1H2BO	-0.055212	6.9893548	-0.820759	0.4325223	0.72194	-5.911952
MRPS10	0.0693278	10.728831	0.8205551	0.4326326	0.72204	-5.912118
RIMS3	-0.078385	9.8911461	-0.820203	0.4328231	0.72212	-5.912404
LRP12	-0.066333	6.9112728	-0.820174	0.4328393	0.72212	-5.912429
VTI1A	0.0548516	6.9806503	0.8200402	0.4329115	0.72212	-5.912537
PLCG1	-0.054112	7.8243784	-0.820028	0.432918	0.72212	-5.912547
TLR4	-0.049509	6.7050807	-0.820018	0.4329238	0.72212	-5.912556
LOC729609	-0.067713	6.9678591	-0.819883	0.4329965	0.72216	-5.912665
TMEM168	-0.058229	6.846678	-0.819598	0.433151	0.72233	-5.912897
MIB2	0.0694536	8.0226412	0.8194195	0.433248	0.72234	-5.913043
MMAB	-0.063911	7.3426725	-0.819394	0.433262	0.72234	-5.913064
STAC	-0.070409	6.8909945	-0.819312	0.4333065	0.72234	-5.913131
ZNF862	0.0673021	6.8318919	0.8190414	0.433453	0.72245	-5.913351
PARP4	0.0776244	9.8266465	0.8189204	0.4335187	0.72245	-5.913449
MDM2	0.0834658	7.4508229	0.8188836	0.4335386	0.72245	-5.913479
NPB	-0.084701	7.3396329	-0.818804	0.433582	0.72245	-5.913544
DNAJC9	0.0586059	10.733096	0.8187199	0.4336274	0.72245	-5.913612
TASP1	0.0722793	7.7290326	0.8186477	0.4336666	0.72245	-5.913671
KAT7	0.0576441	7.2041264	0.818542	0.4337239	0.72246	-5.913757
TIGD6	-0.068479	7.0126386	-0.818444	0.4337769	0.72247	-5.913836
ITPRIP	0.0518886	8.5504554	0.8182007	0.4339092	0.72254	-5.914035
PCOLCE2	-0.04931	6.8484717	-0.818138	0.433943	0.72254	-5.914085
KLF10	0.0628121	7.3971415	0.818087	0.4339709	0.72254	-5.914127
MLLT11	0.0742688	10.229903	0.8178361	0.4341071	0.72269	-5.914331
SEC61B	0.054636	12.616518	0.8172493	0.4344257	0.72308	-5.914808
MIR106A	-0.064611	6.9310698	-0.817217	0.4344433	0.72308	-5.914834
RPL23AP32	-0.092626	9.3626595	-0.817005	0.4345582	0.72319	-5.915006
CNTNAP3	0.068707	6.7832797	0.8168831	0.4346247	0.72322	-5.915105

SDHC	-0.081912	7.8947365	-0.816731	0.4347074	0.72327	-5.915229
BMI1	0.0745604	9.3224591	0.8164573	0.4348561	0.72344	-5.915451
RCC2	0.1314313	12.212458	0.8162014	0.4349952	0.72354	-5.915659
CLMN	0.0747835	6.9248746	0.8161602	0.4350176	0.72354	-5.915692
LCT	0.0730162	6.8523808	0.815837	0.4351933	0.72375	-5.915954
MIR573	-0.072237	6.9250515	-0.815429	0.4354153	0.72404	-5.916285
RIT1	0.0774405	7.5393217	0.8152692	0.4355022	0.72407	-5.916415
OLA1	0.0595337	7.1108467	0.8152151	0.4355316	0.72407	-5.916458
SUCLA2	0.081757	9.3456305	0.8147907	0.4357626	0.72437	-5.916802
MEMO1	-0.089649	9.2196183	-0.814636	0.4358466	0.72443	-5.916927
MIR635	0.0576939	6.8818208	0.8138316	0.4362848	0.72507	-5.917579
TBL2	-0.055566	8.0963959	-0.813625	0.4363974	0.72518	-5.917746
ADPRM	-0.064812	7.9265311	-0.813346	0.4365492	0.72521	-5.917972
ISM1	0.0976724	7.0419445	0.8132871	0.4365815	0.72521	-5.91802
ARHGAP25	0.0679678	7.9625323	0.8132607	0.4365959	0.72521	-5.918041
MYBL1	-0.109876	8.0776612	-0.813222	0.4366171	0.72521	-5.918072
CNNM2	0.0491101	6.9829947	0.8128515	0.436819	0.72538	-5.918372
PARD6G	-0.050398	6.7798286	-0.812789	0.436853	0.72538	-5.918422
TRIM7	-0.050791	6.8365177	-0.812767	0.4368651	0.72538	-5.91844
LRRN1	0.0616768	6.9754737	0.8126524	0.4369276	0.72538	-5.918533
SNRPC	0.0866718	10.1015	0.8125835	0.4369651	0.72538	-5.918589
CHST3	0.0955237	7.00825	0.8124659	0.4370293	0.72538	-5.918684
C3orf18	0.0645447	7.0458346	0.8123953	0.4370678	0.72538	-5.918741
ANKRD37	-0.054521	7.9285339	-0.812098	0.4372298	0.72557	-5.918981
C22orf24	0.1005093	7.0338793	0.8116168	0.4374925	0.72588	-5.91937
DDRGK1	-0.056796	8.5715315	-0.811561	0.4375231	0.72588	-5.919415
PABPC4L	-0.051471	6.8175622	-0.811479	0.4375677	0.72588	-5.919481
IRS2	-0.054698	6.8187379	-0.810611	0.4380417	0.72658	-5.920181
NAPA	0.0841739	7.5261842	0.8104213	0.4381453	0.72667	-5.920334
IGFBP7	-0.070861	6.8936805	-0.810228	0.4382508	0.72677	-5.92049
ZMPSTE24	0.0627776	10.514689	0.8099756	0.4383888	0.72691	-5.920694
QPCTL	-0.080652	7.7338507	-0.809747	0.4385139	0.72704	-5.920878
SYT15	-0.05423	7.3019291	-0.809541	0.4386266	0.72714	-5.921044
WASH2P	0.0804245	7.6938734	0.8093961	0.4387056	0.72719	-5.921161
NUP58	0.0600187	7.5324276	0.8092134	0.4388055	0.72727	-5.921308
TSPOAP1	-0.049672	6.8811652	-0.809065	0.4388864	0.72728	-5.921427
EID2B	-0.077756	8.8302263	-0.808989	0.4389284	0.72728	-5.921489
RGN	0.0703921	6.9841402	0.8089299	0.4389606	0.72728	-5.921536
ATPAF1	-0.06424	8.415527	-0.808767	0.4390498	0.72735	-5.921667
CHRM4	-0.066371	7.0612063	-0.808588	0.4391475	0.72743	-5.921811
SNAPC4	-0.095512	10.243241	-0.808257	0.4393289	0.72761	-5.922078
CCL20	0.0549308	6.8815394	0.8082085	0.4393553	0.72761	-5.922117
LSM10	-0.072457	9.7734455	-0.808108	0.4394103	0.72761	-5.922198
PCED1A	-0.066002	7.392901	-0.80778	0.4395898	0.72782	-5.922461
GAS2L2	-0.049497	6.8073393	-0.807666	0.4396524	0.72782	-5.922553

TANGO2	0.0611092	7.7793843	0.8076038	0.4396863	0.72782	-5.922603
MAT2B	-0.083258	8.9660113	-0.807421	0.4397863	0.72786	-5.92275
PRELID2	-0.058819	6.7383414	-0.807381	0.4398084	0.72786	-5.922782
HOXA3	0.0611018	6.8357304	0.8060276	0.4405501	0.72901	-5.923869
MRPS5	-0.084986	9.9440723	-0.80578	0.4406858	0.72905	-5.924068
FJX1	-0.048847	6.8619154	-0.805714	0.4407219	0.72905	-5.924121
SF3B5	0.116599	11.325478	0.8057075	0.4407256	0.72905	-5.924126
UVSSA	0.0609996	7.9571996	0.8054748	0.4408532	0.72918	-5.924313
OMA1	-0.056687	8.0074354	-0.805351	0.4409211	0.7292	-5.924412
FCGR1B	0.0546561	6.7746316	0.8052052	0.4410012	0.7292	-5.924529
ATL3	-0.081535	9.9138161	-0.805172	0.4410196	0.7292	-5.924556
DYNC2H1	0.0697159	7.4985521	0.8049738	0.4411281	0.72927	-5.924715
CCDC167	-0.057112	10.574686	-0.804917	0.4411593	0.72927	-5.92476
ZRANB3	-0.051971	6.9954928	-0.804808	0.4412189	0.72929	-5.924847
MFAP2	0.0599372	6.9719191	0.8047166	0.4412693	0.72929	-5.924921
POLDIP2	-0.048788	9.0739764	-0.804547	0.4413627	0.72929	-5.925057
GINS1	0.0674104	6.9996866	0.8045113	0.441382	0.72929	-5.925086
RASD2	0.0646737	6.8372044	0.8044408	0.4414207	0.72929	-5.925142
ALCAM	0.0567776	9.5281289	0.8039596	0.441685	0.72954	-5.925528
MIEF1	0.0663084	9.9727581	0.8039169	0.4417084	0.72954	-5.925562
RBM4	-0.066813	9.1031151	-0.803896	0.4417202	0.72954	-5.925579
COG1	0.0640745	7.2981888	0.8035694	0.4418994	0.72973	-5.92584
MS4A6A	0.0522	6.839669	0.8034961	0.4419396	0.72973	-5.925899
FOXRED1	-0.075472	9.8915613	-0.803398	0.4419936	0.72974	-5.925977
RCC1L	0.0603254	7.5257288	0.8031973	0.4421039	0.72984	-5.926138
CCDC18	0.0687754	7.5388508	0.8029345	0.4422483	0.72993	-5.926348
DNASE1	-0.064658	6.9440406	-0.802918	0.4422575	0.72993	-5.926362
GPR173	-0.075257	6.7922629	-0.802712	0.4423708	0.73003	-5.926526
MRPL12	0.1031948	10.450553	0.8025505	0.4424594	0.7301	-5.926655
GPRASP2	-0.056256	6.9268301	-0.802124	0.4426938	0.73032	-5.926996
TXNL4B	0.0672575	7.4752894	0.8021207	0.4426958	0.73032	-5.926999
RPP14	-0.083137	7.5579476	-0.801846	0.4428472	0.73042	-5.927219
RNF220	0.0609021	9.366852	0.8018293	0.4428562	0.73042	-5.927232
STAT1	0.0574159	8.1602536	0.8015735	0.4429969	0.73053	-5.927436
TMEM174	0.1062955	7.17308	0.8014879	0.443044	0.73053	-5.927505
ART4	-0.063122	6.994132	-0.80136	0.4431143	0.73053	-5.927607
ARR3	-0.051034	6.8411367	-0.801249	0.4431756	0.73053	-5.927696
ZFAND1	-0.089015	9.1435701	-0.8011	0.4432574	0.73053	-5.927814
LINC00476	-0.059794	6.9551151	-0.801085	0.443266	0.73053	-5.927827
NIT1	-0.063013	7.3203178	-0.800731	0.4434606	0.73053	-5.928109
CYTH2	-0.055555	7.5850326	-0.800615	0.4435247	0.73053	-5.928202
KRT83	-0.053816	6.926322	-0.80057	0.4435495	0.73053	-5.928237
DSC3	0.0536801	6.9783248	0.8005423	0.4435647	0.73053	-5.92826
USP54	-0.055827	6.9167385	-0.800529	0.4435722	0.73053	-5.92827
FBP2	0.0504431	6.8745177	0.8005276	0.4435728	0.73053	-5.928271

SMA4	0.0627929	7.4035145	0.8004627	0.4436086	0.73053	-5.928323
AVL9	-0.063353	7.5954245	-0.800439	0.4436216	0.73053	-5.928342
TMED7	0.0775666	9.3252862	0.7997051	0.444026	0.73111	-5.928927
EZR	-0.070538	13.035456	-0.799448	0.4441676	0.73118	-5.929132
WNT10B	-0.055113	6.8713727	-0.799441	0.4441715	0.73118	-5.929138
LDB1	0.0512907	6.9706564	0.7991158	0.4443509	0.7314	-5.929397
MEX3B	-0.086467	7.0292817	-0.798905	0.4444673	0.73151	-5.929565
CD7	-0.052885	6.8048905	-0.798809	0.4445203	0.73151	-5.929642
RASL11B	0.0660391	6.8890078	0.7983426	0.4447775	0.7318	-5.930013
PPM1F	-0.082158	9.5593477	-0.798172	0.4448715	0.7318	-5.930148
CRAMP1	0.0703516	7.4796805	0.7981537	0.4448817	0.7318	-5.930163
SIX2	-0.066156	6.8297315	-0.798047	0.4449406	0.7318	-5.930248
ATP5J2	0.0640428	12.023018	0.798037	0.4449462	0.7318	-5.930256
NKX2-2	0.068299	6.9255761	0.7977486	0.4451053	0.73198	-5.930485
LEFTY2	0.0561181	6.8982455	0.7976244	0.4451739	0.73201	-5.930584
SMCO1	-0.070585	6.9397579	-0.797323	0.4453401	0.7322	-5.930824
CSNK1A1L	-0.058844	6.9388319	-0.797108	0.445459	0.73225	-5.930995
STARD5	0.0719346	7.5995325	0.7970295	0.4455025	0.73225	-5.931057
IL2RA	0.0529254	6.9328949	0.7969478	0.4455476	0.73225	-5.931122
DHRS4-AS1	0.0572344	7.3967777	0.7969099	0.4455685	0.73225	-5.931152
LILRA2	0.0579767	6.7518467	0.7966654	0.4457037	0.73239	-5.931347
ZNF321P	-0.066485	6.956727	-0.796352	0.4458769	0.73259	-5.931596
IGF2BP2	0.075822	6.9629471	0.7961951	0.4459636	0.73265	-5.93172
MRPL23	0.0786076	11.397477	0.7958452	0.4461571	0.73288	-5.931998
NPHP3-AS1	-0.071781	6.9061107	-0.795685	0.4462454	0.73293	-5.932125
PGBD4	-0.056939	7.0256764	-0.79554	0.4463261	0.73293	-5.932241
ALG2	-0.052617	7.1535157	-0.795479	0.4463597	0.73293	-5.932289
SH3BGRL2	-0.050183	6.8250004	-0.795431	0.446386	0.73293	-5.932327
NADK2	-0.101762	7.3888579	-0.79521	0.4465082	0.73305	-5.932502
IFIT2	-0.092692	7.7831104	-0.795067	0.4465873	0.73309	-5.932615
PNMA1	0.0598513	7.4228659	0.7943328	0.4469939	0.73368	-5.933198
MBP	-0.059124	8.063267	-0.794098	0.4471239	0.73381	-5.933384
HNF4G	0.0553647	6.7510994	0.7938205	0.4472776	0.7339	-5.933604
AOC3	0.0787018	6.9730386	0.7938124	0.4472821	0.7339	-5.93361
TOMM7	0.0629764	13.204344	0.7934653	0.4474744	0.73411	-5.933885
CLSPN	-0.07504	7.0304254	-0.793351	0.4475375	0.73411	-5.933975
SNORA78	0.0813618	6.947173	0.7932612	0.4475875	0.73411	-5.934047
RTFDC1	-0.066949	11.307524	-0.793018	0.4477224	0.73411	-5.934239
MXD1	0.0694092	7.1567837	0.792953	0.4477583	0.73411	-5.934291
CD200R1L	-0.081436	6.8847794	-0.79294	0.4477653	0.73411	-5.934301
MX1	0.0511507	6.8018739	0.7928339	0.4478244	0.73411	-5.934385
NARFL	-0.056584	7.5323419	-0.792716	0.4478899	0.73411	-5.934479
EGF	-0.058482	6.8788233	-0.792708	0.4478942	0.73411	-5.934485
MCOLN1	0.0837364	7.7593842	0.7926792	0.4479101	0.73411	-5.934507
SULT1A4	-0.0663	7.8782361	-0.79247	0.4480259	0.73414	-5.934673

POM121L12	-0.064555	7.0842684	-0.792462	0.4480306	0.73414	-5.934679
FLJ44635	-0.055222	6.9126683	-0.792285	0.4481287	0.73416	-5.934819
RCN3	-0.056565	6.857494	-0.792264	0.4481406	0.73416	-5.934836
PRSS27	-0.053571	6.7401334	-0.79214	0.4482089	0.73419	-5.934934
UBE2T	-0.07485	11.012344	-0.791961	0.4483084	0.73427	-5.935075
FAM78B	-0.050477	6.8736644	-0.791191	0.4487357	0.73484	-5.935684
ACOX1	0.0506292	7.2952569	0.7911535	0.4487565	0.73484	-5.935713
PCDHB2	-0.05233	6.8036385	-0.790722	0.4489962	0.73511	-5.936054
CHST14	-0.064464	7.4383488	-0.790624	0.4490506	0.73511	-5.936132
SLC9A6	0.0705752	7.5075851	0.7905799	0.449075	0.73511	-5.936166
FAM83H	-0.048143	6.7374416	-0.790299	0.4492312	0.73527	-5.936388
HERC2P8	-0.0694	7.7047394	-0.790177	0.4492987	0.73527	-5.936484
NASP	-0.101245	9.5267606	-0.790043	0.4493731	0.73527	-5.93659
DLX1	0.0483547	6.9324634	0.7900404	0.4493747	0.73527	-5.936592
SUDS3	0.059443	7.3327606	0.7897383	0.4495426	0.73546	-5.93683
ETS2	-0.06156	7.636077	-0.789436	0.4497106	0.73566	-5.937069
COL6A1	0.0502486	6.7859798	0.7890989	0.449898	0.73584	-5.937335
ZNF596	0.0616784	6.8778269	0.7890521	0.449924	0.73584	-5.937371
BPIFA1	0.059916	6.8149156	0.7888148	0.450056	0.73597	-5.937558
HIBCH	0.0646317	8.8638088	0.7885823	0.4501853	0.7361	-5.937742
TUBGCP6	-0.060282	7.4624229	-0.788427	0.4502717	0.73616	-5.937864
CCDC171	-0.070769	7.1478052	-0.788201	0.4503974	0.73628	-5.938042
RETREG3	0.0941109	7.4402449	0.7879191	0.4505544	0.73632	-5.938264
GKN2	-0.057135	6.9459858	-0.787859	0.4505878	0.73632	-5.938311
DHRS7B	-0.05575	8.0031504	-0.787858	0.4505886	0.73632	-5.938312
TCL1B	-0.101227	7.1835087	-0.787798	0.4506218	0.73632	-5.938359
CDC16	-0.072847	10.625394	-0.787415	0.4508351	0.73659	-5.938661
PDLIM3	0.0513703	6.8298465	0.7872073	0.4509507	0.73669	-5.938824
POFUT2	0.0500611	7.5616241	0.7871058	0.4510072	0.7367	-5.938904
C12orf43	-0.057475	8.6934483	-0.786885	0.4511303	0.73682	-5.939077
BBS4	-0.049822	7.8352903	-0.786636	0.4512689	0.73693	-5.939273
POMT1	-0.06335	7.8269698	-0.786371	0.4514165	0.73693	-5.939481
PHF8	0.0817803	7.0222064	0.7862597	0.4514786	0.73693	-5.939569
NOTCH2NL	0.0512246	7.243619	0.7862364	0.4514916	0.73693	-5.939587
NTHL1	0.0569671	9.4239976	0.7862024	0.4515106	0.73693	-5.939614
RAD51C	-0.047958	8.9545264	-0.786161	0.4515335	0.73693	-5.939646
UNC119B	-0.061805	8.001806	-0.786137	0.4515473	0.73693	-5.939665
TRMU	-0.060143	7.6078241	-0.786028	0.4516076	0.73694	-5.93975
COMMD4	0.0685705	10.089089	0.7856703	0.4518072	0.7371	-5.940031
TMPRSS11B	-0.089359	7.0313504	-0.78551	0.4518964	0.7371	-5.940157
TBX21	0.0652843	7.6983675	0.7854006	0.4519576	0.7371	-5.940243
CRIPT	-0.077843	8.746475	-0.785378	0.4519702	0.7371	-5.940261
HAUS7	-0.053905	8.5770477	-0.785313	0.4520067	0.7371	-5.940312
EREG	0.0565314	7.0459038	0.7852779	0.4520261	0.7371	-5.940339
TSPAN5	0.0505035	6.9066656	0.7851818	0.4520796	0.7371	-5.940415

PQLC1	0.0793662	11.117617	0.7851302	0.4521084	0.7371	-5.940455
SPRTN	-0.068225	7.6858905	-0.784721	0.452337	0.73739	-5.940777
FRG2C	-0.051124	6.8406766	-0.784149	0.4526558	0.73776	-5.941224
VCL	-0.059479	8.5636683	-0.784053	0.4527098	0.73776	-5.9413
MIR1323	0.0854024	7.1037728	0.7840473	0.4527128	0.73776	-5.941305
UBXN2B	0.0612008	8.3568185	0.7837848	0.4528594	0.73783	-5.94151
PIFO	0.0566621	6.9975984	0.7837716	0.4528668	0.73783	-5.941521
ENDOV	-0.048658	6.7402434	-0.783602	0.4529614	0.73783	-5.941653
LRRC75A-AS	-0.081445	13.858255	-0.783601	0.4529618	0.73783	-5.941654
FUT4	-0.052992	6.8151613	-0.783284	0.4531394	0.73792	-5.941903
WDR1	0.0625376	10.028171	0.7832421	0.4531626	0.73792	-5.941935
KIAA0408	0.0935247	7.659539	0.7832093	0.4531809	0.73792	-5.941961
CCDC112	0.0707917	7.7219587	0.7831386	0.4532204	0.73792	-5.942016
APC2	-0.057151	7.0772242	-0.782823	0.4533967	0.73806	-5.942263
SETD7	-0.057149	7.0321172	-0.782803	0.4534078	0.73806	-5.942279
C15orf59	-0.072941	6.8641573	-0.782697	0.4534669	0.73808	-5.942362
PNCK	0.0588589	6.8358905	0.7825981	0.4535225	0.73809	-5.942439
SNAP25	-0.055343	6.8553657	-0.78217	0.4537618	0.73828	-5.942774
PHYKPL	-0.049376	7.1946626	-0.782089	0.4538073	0.73828	-5.942838
DAGLA	0.0586745	6.8554801	0.7820117	0.4538503	0.73828	-5.942898
MYLK	0.0593226	7.0231342	0.7819425	0.4538891	0.73828	-5.942952
POLR2G	-0.060183	11.512793	-0.781815	0.4539603	0.73828	-5.943052
COA6	-0.049388	7.9120805	-0.781734	0.4540058	0.73828	-5.943115
EID1	-0.058001	7.5816749	-0.78169	0.4540303	0.73828	-5.943149
ACOT2	0.0466239	6.7424312	0.7816608	0.4540467	0.73828	-5.943172
MCEMP1	0.0604076	6.7956233	0.7812946	0.4542516	0.73853	-5.943459
ITM2C	-0.067469	7.0956647	-0.780764	0.4545487	0.73893	-5.943873
C7orf50	-0.100347	11.141776	-0.78039	0.454758	0.73915	-5.944165
DHX37	-0.055342	8.7977292	-0.780341	0.4547855	0.73915	-5.944203
TMEM9	-0.049941	8.2320367	-0.780249	0.4548369	0.73915	-5.944275
PRSS45	0.0751821	7.1096957	0.7801037	0.4549183	0.73916	-5.944388
LINC00563	0.0514738	6.8676271	0.7800578	0.454944	0.73916	-5.944424
RTN2	0.0557614	6.8542497	0.779658	0.455168	0.73942	-5.944736
TDGP1	0.1158344	7.9690474	0.7795975	0.4552019	0.73942	-5.944783
TIGD1	0.0498456	7.0295673	0.779372	0.4553283	0.7395	-5.944959
C20orf96	-0.059393	6.8855025	-0.77933	0.455352	0.7395	-5.944992
MRPL55	-0.050228	8.2651825	-0.779236	0.4554048	0.7395	-5.945065
PTGS2	-0.064417	6.7258307	-0.779068	0.4554985	0.73957	-5.945196
PIGA	0.0558609	8.1388551	0.7788334	0.4556302	0.73962	-5.945379
H3F3C	0.070748	8.4994236	0.7787314	0.4556875	0.73962	-5.945458
TSNAX	-0.064639	8.2491771	-0.77852	0.4558059	0.73962	-5.945623
ITGB5	-0.049039	6.8630844	-0.778499	0.4558177	0.73962	-5.945639
PHC3	0.0542997	7.0856868	0.778484	0.4558262	0.73962	-5.945651
ARIH2	0.0569476	10.452169	0.7784677	0.4558353	0.73962	-5.945664
ARHGAP35	0.0494736	6.9401577	0.778296	0.4559316	0.73965	-5.945797

OPRM1	0.0544488	6.9001891	0.778261	0.4559513	0.73965	-5.945825
RPL26L1	-0.055603	10.101599	-0.778169	0.4560028	0.73965	-5.945896
C14orf28	-0.04916	7.1076485	-0.777893	0.4561578	0.73982	-5.946111
GALM	-0.050313	6.7348252	-0.777626	0.4563073	0.73998	-5.946319
ZMIZ2	-0.054437	8.3732593	-0.777455	0.4564036	0.74005	-5.946452
TOMM40L	-0.061052	8.8501413	-0.777219	0.456536	0.74008	-5.946635
C3	0.0501057	6.862914	0.7772085	0.456542	0.74008	-5.946644
MTHFSD	0.0532475	7.4319249	0.7771482	0.4565758	0.74008	-5.946691
SMPD2	-0.062148	7.0151697	-0.776837	0.4567508	0.74029	-5.946933
TFB2M	-0.055387	10.114317	-0.776675	0.4568414	0.74035	-5.947058
LXN	0.0568603	6.9600008	0.7765334	0.4569211	0.74039	-5.947169
GNAL	-0.058815	6.9642322	-0.776439	0.4569741	0.74039	-5.947242
RAD18	0.0677905	7.1060673	0.7762082	0.4571039	0.74039	-5.947421
IL31RA	-0.061093	6.8535702	-0.776077	0.4571773	0.74039	-5.947523
KIAA0368	-0.06936	8.7864431	-0.776059	0.4571879	0.74039	-5.947537
ZNF536	-0.063679	6.8721107	-0.775827	0.4573182	0.74039	-5.947718
ZNF7	-0.077851	8.2361477	-0.775825	0.4573192	0.74039	-5.947719
PNPLA1	0.0466277	6.7880493	0.7756646	0.4574094	0.74039	-5.947843
OPN3	0.0476008	6.8386674	0.7755735	0.4574606	0.74039	-5.947914
TMEM189-U	0.0601078	8.2980632	0.7755034	0.4575	0.74039	-5.947969
DPYD	-0.066147	7.703485	-0.775451	0.4575293	0.74039	-5.948009
D2HGDH	0.0781761	9.5394865	0.7754499	0.4575301	0.74039	-5.94801
ANGPTL4	-0.05524	7.0241703	-0.775385	0.4575664	0.74039	-5.94806
FOXH1	0.0520354	6.9352995	0.7753213	0.4576024	0.74039	-5.94811
SCYL1	-0.046197	9.9120008	-0.775165	0.4576901	0.74039	-5.948231
HIGD2A	0.0591494	11.625436	0.7751494	0.4576991	0.74039	-5.948243
FYCO1	0.0537279	7.9844348	0.7750471	0.4577566	0.74039	-5.948323
UTP20	-0.097822	7.2042732	-0.77501	0.4577773	0.74039	-5.948351
LYPD3	0.0546099	6.8921773	0.7746637	0.4579722	0.74062	-5.94862
TIMP3	0.0507773	6.7431006	0.7745373	0.4580434	0.74065	-5.948718
PTDSS2	0.0707889	8.6323313	0.7744221	0.4581082	0.74068	-5.948807
MAGEA6	0.0730896	6.9835467	0.7740538	0.4583155	0.74085	-5.949093
CSTF1	0.0530962	7.2650199	0.7740491	0.4583181	0.74085	-5.949097
MAGEC1	-0.071628	6.8944393	-0.773697	0.4585162	0.74109	-5.949369
ZBTB32	0.050526	8.8248254	0.7736038	0.4585689	0.74109	-5.949442
CCDC93	-0.062465	7.9471156	-0.773434	0.4586645	0.74117	-5.949573
SLC25A23	-0.059638	10.321381	-0.773175	0.4588104	0.74121	-5.949774
ECM1	-0.065036	6.9784475	-0.773081	0.4588634	0.74121	-5.949847
CBWD5	0.0649259	9.5264039	0.7728955	0.4589678	0.74121	-5.94999
SSFA2	-0.06912	7.1784202	-0.772834	0.4590027	0.74121	-5.950038
SDC4	-0.058857	6.7877772	-0.772819	0.4590109	0.74121	-5.950049
C9orf116	-0.049379	7.5538807	-0.772701	0.4590774	0.74121	-5.95014
STBD1	-0.051025	6.8766301	-0.772695	0.459081	0.74121	-5.950145
AP5S1	0.0546403	7.9601891	0.7726637	0.4590984	0.74121	-5.950169
BMPR1A	-0.076491	7.781212	-0.772344	0.4592787	0.74142	-5.950417

PTPN9	-0.059705	7.1132862	-0.772044	0.459448	0.74161	-5.950649
HSD17B4	0.0729375	9.8956224	0.7716654	0.4596612	0.74184	-5.950941
NFIL3	-0.073995	7.8113238	-0.771462	0.459776	0.74184	-5.951099
RFLNB	-0.056123	6.8906814	-0.771395	0.4598138	0.74184	-5.95115
TFAP2A	-0.046795	6.8264929	-0.771381	0.4598214	0.74184	-5.951161
TSPAN13	0.0590884	6.9209929	0.7713381	0.4598458	0.74184	-5.951194
CHORDC1	-0.063205	8.1046412	-0.771051	0.4600081	0.74199	-5.951416
GEN1	-0.057145	7.1742117	-0.770951	0.4600643	0.74199	-5.951493
CCDC51	0.0593198	9.2019031	0.7709075	0.4600888	0.74199	-5.951527
AKIRIN1	0.0919327	7.8893754	0.7708168	0.46014	0.74199	-5.951597
TOMM5	-0.054523	11.976344	-0.770426	0.4603604	0.74226	-5.951898
CYP2A13	0.0470324	7.0176343	0.7700842	0.4605536	0.74249	-5.952162
ID3	-0.082433	9.6329108	-0.769532	0.4608656	0.74291	-5.952588
RBM33	-0.064224	7.8480646	-0.769399	0.4609405	0.74293	-5.952691
PCBP3	0.0488194	6.798865	0.7692054	0.46105	0.74293	-5.95284
FGGY	-0.060432	7.501678	-0.769135	0.4610896	0.74293	-5.952894
RPSAP58	-0.056997	10.780605	-0.76907	0.4611266	0.74293	-5.952944
TBC1D8B	-0.050499	6.8746244	-0.769066	0.461129	0.74293	-5.952948
POLR2J2	-0.049922	9.2206194	-0.768857	0.4612468	0.74294	-5.953108
TNIP2	0.0788845	8.1793264	0.7688263	0.4612642	0.74294	-5.953132
C1orf226	-0.053358	6.8533626	-0.768679	0.4613473	0.74294	-5.953245
HYAL2	0.0737159	7.5716803	0.7686288	0.4613759	0.74294	-5.953284
ZSCAN12	-0.056587	7.0442868	-0.768605	0.4613892	0.74294	-5.953302
RBMS1	0.0458413	7.219979	0.7679595	0.4617544	0.74336	-5.9538
CKAP4	0.072042	8.4967881	0.7679556	0.4617566	0.74336	-5.953803
MIR583	-0.057601	6.8679023	-0.767497	0.4620158	0.74357	-5.954155
OTOGL	0.0812895	7.1269823	0.7674776	0.462027	0.74357	-5.95417
SNRNP200	-0.053056	8.1219924	-0.76746	0.4620372	0.74357	-5.954184
SNX20	-0.056731	6.95321	-0.76728	0.4621386	0.74365	-5.954322
CARD6	-0.059768	6.8280831	-0.767044	0.4622724	0.74378	-5.954504
GPRASP1	0.0591176	6.9597472	0.7667631	0.4624315	0.74382	-5.95472
PTPN5	-0.056034	6.9799662	-0.766757	0.4624352	0.74382	-5.954725
RGS9BP	0.0511997	6.9321848	0.7665692	0.4625412	0.74382	-5.954869
XYLT1	-0.05597	6.8773873	-0.766454	0.4626065	0.74382	-5.954957
EIF4E1B	0.0706666	7.0466782	0.766236	0.46273	0.74382	-5.955125
METTL2B	-0.063701	7.0038451	-0.766176	0.462764	0.74382	-5.955171
FDX1	0.0661758	7.4155253	0.7661664	0.4627694	0.74382	-5.955178
UBR2	0.0689226	8.5975751	0.7660819	0.4628172	0.74382	-5.955243
BBS7	0.0637548	7.6812668	0.7660538	0.4628332	0.74382	-5.955265
ADCY10P1	0.0599256	6.9672636	0.7660038	0.4628615	0.74382	-5.955303
BRD4	0.0551744	7.0168415	0.7659447	0.462895	0.74382	-5.955349
MAP2K6	-0.056235	6.9195664	-0.765868	0.4629386	0.74382	-5.955408
LGALS1	0.0768012	7.674417	0.7658392	0.4629548	0.74382	-5.95543
TBC1D20	0.0546014	7.5246501	0.7657361	0.4630132	0.74383	-5.955509
CTTN	0.0531121	7.4902949	0.7653977	0.463205	0.74405	-5.955768

IFI27	-0.055136	6.8061204	-0.765285	0.4632686	0.74407	-5.955855
PARP1	0.0473742	12.447475	0.7650522	0.4634008	0.7442	-5.956033
SLC43A1	0.0532474	7.4063444	0.7649626	0.4634516	0.7442	-5.956102
TRPV1	0.0578959	7.0208271	0.764814	0.4635359	0.74426	-5.956216
MROH1	0.054483	7.107424	0.7644377	0.4637493	0.74449	-5.956505
CDK16	0.0720711	6.8508943	0.7643838	0.4637799	0.74449	-5.956546
ZFP3	-0.053555	6.9146618	-0.763842	0.4640876	0.74473	-5.956962
PLOD3	-0.053517	8.1932058	-0.763783	0.4641208	0.74473	-5.957006
HSD17B13	0.0553131	6.7886767	0.7637685	0.464129	0.74473	-5.957017
N4BP2L2	-0.053899	7.251623	-0.763756	0.4641364	0.74473	-5.957027
NAA30	0.0515987	7.4787706	0.763568	0.4642429	0.74479	-5.957171
KLHL11	-0.044836	6.8813989	-0.763513	0.4642741	0.74479	-5.957213
MLLT6	-0.07407	9.5273676	-0.7633	0.464395	0.74485	-5.957376
PRLR	-0.059427	6.941078	-0.763133	0.4644899	0.74485	-5.957504
TPRN	-0.054762	8.053821	-0.76308	0.4645197	0.74485	-5.957544
ANP32B	0.0502583	13.254499	0.7627931	0.4646829	0.74485	-5.957764
NPTX2	-0.047747	6.7434123	-0.762773	0.4646941	0.74485	-5.957779
RPL12	-0.072931	13.745865	-0.762712	0.464729	0.74485	-5.957826
FRMPD3	0.0678806	7.2493276	0.7625815	0.4648031	0.74485	-5.957926
AVP	0.0791597	6.9966735	0.7625559	0.4648176	0.74485	-5.957946
CXCL9	0.0731679	7.2047047	0.7625139	0.4648415	0.74485	-5.957978
SIX6	-0.057526	6.8696701	-0.762383	0.4649159	0.74485	-5.958078
TTYH3	0.0590976	6.9060651	0.762374	0.4649209	0.74485	-5.958085
ZFP69B	0.0489655	7.063153	0.7623705	0.4649229	0.74485	-5.958087
SLC12A8	-0.112273	8.0657455	-0.762203	0.4650181	0.74492	-5.958215
SERPINF1	-0.058755	6.7618726	-0.762064	0.4650972	0.74496	-5.958322
THRSP	0.0534121	6.821661	0.761917	0.4651806	0.745	-5.958434
NPPA	-0.047902	6.9969814	-0.761838	0.4652257	0.745	-5.958495
FEV	0.0561362	6.8667972	0.761662	0.4653256	0.74502	-5.958629
TRAF6	-0.052667	7.4580455	-0.761643	0.4653367	0.74502	-5.958644
CERS6	-0.077591	6.9308374	-0.761547	0.4653908	0.74502	-5.958717
RYR1	-0.048205	6.8948439	-0.761123	0.4656322	0.74521	-5.959041
IFIT1	0.0551568	6.8577456	0.7610981	0.4656463	0.74521	-5.95906
AKIRIN2	0.1014263	10.109359	0.7610449	0.4656765	0.74521	-5.9591
C15orf52	-0.054996	6.7789573	-0.760951	0.4657297	0.74521	-5.959172
CCDC91	-0.049481	7.512303	-0.760823	0.4658029	0.74521	-5.95927
MAB21L1	-0.047822	6.9135834	-0.760774	0.4658307	0.74521	-5.959307
MEGF8	-0.053516	6.9957793	-0.760718	0.4658624	0.74521	-5.95935
KLHL7	-0.056138	7.4560968	-0.760572	0.4659456	0.74524	-5.959462
NFIA	0.0806521	7.5344862	0.7604491	0.4660155	0.74524	-5.959555
S100A6	0.0766133	7.1854413	0.7603739	0.4660583	0.74524	-5.959613
TMEM266	0.0461976	6.7940594	0.7603262	0.4660854	0.74524	-5.959649
TMIE	-0.048261	6.9134709	-0.76007	0.466231	0.74525	-5.959844
CHD1L	-0.078754	8.6640703	-0.760002	0.46627	0.74525	-5.959896
TMEM38A	0.0884051	7.6580366	0.7599982	0.4662721	0.74525	-5.959899

F2R	-0.047035	10.448247	-0.759953	0.466298	0.74525	-5.959934
EPC2	0.0608233	7.0545656	0.7597961	0.4663872	0.74529	-5.960053
PRRX1	0.0551132	6.9540913	0.759726	0.4664271	0.74529	-5.960107
IQCK	0.0476726	7.6800471	0.7592952	0.4666724	0.74543	-5.960435
ZNF566	-0.046699	6.9119562	-0.759202	0.4667253	0.74543	-5.960506
NPIPB7	-0.063362	6.829178	-0.75901	0.4668348	0.74543	-5.960652
IGFBP3	0.0523536	6.8279417	0.7589273	0.466882	0.74543	-5.960715
FOXI3	-0.080018	7.2140096	-0.758811	0.4669485	0.74543	-5.960804
USP39	0.0701799	9.7544631	0.7587809	0.4669654	0.74543	-5.960827
EEF1E1	-0.06525	11.657537	-0.758726	0.4669967	0.74543	-5.960869
CXCL10	-0.05589	10.462944	-0.758596	0.4670709	0.74543	-5.960968
RAB21	0.0674277	9.4167806	0.7583789	0.4671945	0.74543	-5.961133
HEATR6	-0.064434	8.1769678	-0.758369	0.4672	0.74543	-5.96114
DTX4	-0.060774	6.9378189	-0.758358	0.4672062	0.74543	-5.961149
ERI3	-0.066869	8.2900756	-0.758293	0.4672434	0.74543	-5.961198
SNORD33	0.1160998	7.8596403	0.7582835	0.4672489	0.74543	-5.961206
ABCG8	0.0467814	6.7634349	0.7582114	0.46729	0.74543	-5.96126
CLEC2B	0.0761532	7.6566892	0.7581538	0.4673228	0.74543	-5.961304
OSGIN1	-0.101768	7.4246011	-0.758145	0.4673279	0.74543	-5.961311
MSH6	0.0648053	11.383154	0.7580438	0.4673855	0.74544	-5.961388
FGF1	-0.059818	6.9505108	-0.757727	0.4675664	0.74564	-5.961629
CDKL1	0.0524289	6.9366967	0.7574872	0.4677029	0.7457	-5.961811
PDE4A	0.0681914	7.2180282	0.7574635	0.4677165	0.7457	-5.961829
DOCK9	0.0586369	7.2035294	0.7573977	0.467754	0.7457	-5.961879
USP3	-0.060045	9.4383527	-0.756975	0.4679949	0.746	-5.9622
GLRX3	-0.048378	9.7982796	-0.756679	0.4681641	0.74619	-5.962426
EPHB4	0.050041	6.895576	0.7564864	0.468274	0.74628	-5.962572
ANXA2	-0.047201	7.6037216	-0.756238	0.4684156	0.74633	-5.96276
TMEM179B	0.0600475	9.8101206	0.7562211	0.4684254	0.74633	-5.962773
SH3TC1	-0.072254	9.5205189	-0.75617	0.4684548	0.74633	-5.962812
SLC22A5	0.053257	7.4985188	0.7559763	0.4685653	0.74637	-5.962959
FGF9	0.0633506	6.9419392	0.7559423	0.4685847	0.74637	-5.962985
TEAD2	-0.048286	6.8680304	-0.755324	0.4689376	0.7466	-5.963454
ANO2	0.0855381	6.8517361	0.7552889	0.4689579	0.7466	-5.963481
TMOD1	0.0490381	6.8414199	0.7552649	0.4689716	0.7466	-5.963499
SPOCK1	-0.050467	6.9097177	-0.75525	0.4689801	0.7466	-5.96351
AHDC1	-0.064977	6.9166131	-0.75518	0.4690203	0.7466	-5.963564
DRD1	-0.046301	6.8064131	-0.755143	0.4690411	0.7466	-5.963591
ZNF589	0.0555915	8.1556343	0.7550633	0.4690868	0.7466	-5.963652
CAPRIN2	-0.060665	7.5056709	-0.754885	0.4691888	0.74668	-5.963787
BAIAP2	-0.046642	6.9529847	-0.754681	0.4693055	0.7467	-5.963942
RTKN	0.0469541	6.9312709	0.7545255	0.4693942	0.7467	-5.96406
PPP1R12A	-0.115085	7.783295	-0.75451	0.4694033	0.7467	-5.964072
CRKL	-0.047462	10.671131	-0.754481	0.4694196	0.7467	-5.964093
DCAF11	0.0518083	7.60215	0.754419	0.4694551	0.7467	-5.96414

LZTFL1	0.0570043	7.7062174	0.7537819	0.4698195	0.74715	-5.964623
HOTTIP	0.0579997	7.0893696	0.7537442	0.4698411	0.74715	-5.964652
TTC17	0.0798628	8.3335822	0.7536377	0.469902	0.74716	-5.964732
EI24	-0.054901	10.678581	-0.753533	0.4699617	0.74718	-5.964811
CCR1	0.0520791	6.8456061	0.7533904	0.4700435	0.74723	-5.964919
FZR1	0.0570453	7.085929	0.7531675	0.470171	0.74727	-5.965088
TBC1D4	0.0612716	7.1245477	0.7531646	0.4701727	0.74727	-5.96509
NID1	-0.048423	6.811228	-0.752952	0.4702943	0.74736	-5.965251
HINT2	0.0617412	9.5629047	0.7527461	0.4704123	0.74736	-5.965407
EAF2	-0.060262	9.0789325	-0.752722	0.4704258	0.74736	-5.965425
POU4F1	0.0537741	6.8479846	0.7526611	0.470461	0.74736	-5.965471
GUCA2A	-0.066168	6.973454	-0.752572	0.4705119	0.74736	-5.965538
IL1B	-0.057554	6.7918631	-0.752524	0.4705392	0.74736	-5.965574
PARP3	-0.053292	7.7592209	-0.752231	0.4707074	0.74747	-5.965796
TCF23	-0.061771	6.947381	-0.752225	0.4707105	0.74747	-5.965801
TBC1D14	0.0755751	9.5491947	0.7520161	0.4708304	0.74756	-5.965959
SS18L1	-0.064795	8.3011153	-0.751946	0.4708706	0.74756	-5.966012
MEIS1	-0.066098	7.1319507	-0.751861	0.470919	0.74756	-5.966076
CRACR2B	0.0570819	6.9020151	0.7513455	0.4712146	0.74786	-5.966465
LMBRD2	0.0556573	6.8546409	0.7512708	0.4712574	0.74786	-5.966522
CADPS	0.0483559	7.4431122	0.7512662	0.4712601	0.74786	-5.966525
BTBD9	-0.050432	6.8926897	-0.75112	0.471344	0.74791	-5.966636
SNORA7A	0.0719385	7.1698897	0.7509902	0.4714183	0.74795	-5.966733
ARMCX1	0.0449212	6.7412772	0.7508845	0.4714789	0.74796	-5.966813
AATK	0.0628319	7.3103793	0.7507674	0.471546	0.74797	-5.966901
ABRACL	-0.062811	9.9960049	-0.750696	0.4715872	0.74797	-5.966956
HSD17B6	0.0459149	8.1987903	0.74983	0.4720838	0.74868	-5.967608
RPS18	-0.076371	13.494811	-0.749664	0.472179	0.74873	-5.967733
ROCK2	0.0668025	10.622812	0.7495254	0.4722586	0.74873	-5.967838
KYAT3	-0.054504	7.8171846	-0.749498	0.4722742	0.74873	-5.967858
ENG	-0.056665	6.7514018	-0.749076	0.4725168	0.74897	-5.968177
MGME1	-0.065992	9.6040866	-0.749059	0.4725263	0.74897	-5.968189
CABLES1	-0.047516	6.816823	-0.748866	0.4726371	0.74906	-5.968334
TLR2	0.0543998	6.7023407	0.7485737	0.472805	0.74925	-5.968554
GUCA1A	0.0462001	6.9283104	0.7484283	0.4728885	0.74929	-5.968664
LRRIQ3	-0.051007	6.9796275	-0.74832	0.4729506	0.74929	-5.968745
LACTB	-0.059101	7.4381175	-0.748137	0.4730557	0.74929	-5.968883
C2orf73	0.0474811	6.7994705	0.7481022	0.4730759	0.74929	-5.968909
PRAMEF5	0.0497483	6.9682632	0.7480844	0.4730861	0.74929	-5.968923
CXorf57	0.0676236	9.3220835	0.747881	0.473203	0.74935	-5.969076
CCNDBP1	-0.06075	9.1569463	-0.74784	0.4732268	0.74935	-5.969107
NOTUM	-0.055354	6.9039424	-0.747519	0.4734108	0.74952	-5.969347
SIRT2	0.0606529	7.1774174	0.7474034	0.4734776	0.74952	-5.969435
HEPACAM	0.0513168	6.9020185	0.7473863	0.4734873	0.74952	-5.969447
YWHAZ	0.0651272	10.408094	0.7472461	0.473568	0.74952	-5.969553

FKBP2	0.0665888	7.9079522	0.7471349	0.4736319	0.74952	-5.969636
ZNF808	0.0576954	6.8400929	0.7471186	0.4736413	0.74952	-5.969649
TLR6	-0.053234	7.5014531	-0.747023	0.4736964	0.74952	-5.969721
LOC399900	0.1448477	11.414921	0.7467228	0.4738689	0.74971	-5.969946
PBX2	-0.08157	8.5155983	-0.746394	0.4740581	0.74993	-5.970193
SIK3	-0.075916	9.3843244	-0.745801	0.4743993	0.75034	-5.970638
CDK3	-0.056657	6.9562434	-0.745766	0.4744196	0.75034	-5.970664
CCDC144NL	0.0698775	6.9600571	0.745617	0.4745053	0.75035	-5.970776
SRP14P1	0.0590429	11.327087	0.7455748	0.4745296	0.75035	-5.970807
MT1H	0.0579759	6.7827834	0.7453047	0.4746851	0.75052	-5.97101
RIMS2	-0.047993	7.0204904	-0.745137	0.4747816	0.75059	-5.971135
PIK3IP1	-0.071165	8.6336839	-0.744691	0.4750385	0.75091	-5.97147
PTGR1	0.0447944	6.7948119	0.744302	0.4752628	0.75119	-5.971761
PPIAL4C	-0.047527	6.8580783	-0.743959	0.4754605	0.75125	-5.972018
CNTNAP1	-0.048492	6.808197	-0.743813	0.4755449	0.75125	-5.972128
KLKP1	0.0533111	6.7865682	0.7436344	0.4756476	0.75125	-5.972261
SESN2	-0.066146	7.1624323	-0.743572	0.4756838	0.75125	-5.972308
PKHD1	0.0585643	6.7843667	0.7434936	0.4757288	0.75125	-5.972366
SCART1	0.0513916	6.8714029	0.7433794	0.4757947	0.75125	-5.972452
MCHR2	0.0658631	7.2851156	0.7433576	0.4758072	0.75125	-5.972468
TMCO4	-0.062879	6.6640488	-0.743338	0.4758187	0.75125	-5.972483
FMNL1	-0.059572	7.2665346	-0.74316	0.4759211	0.75125	-5.972615
LY86	-0.064943	8.5661188	-0.743051	0.4759843	0.75125	-5.972697
RNF126P1	0.0511637	6.9334541	0.7429796	0.4760253	0.75125	-5.972751
INTU	-0.054325	6.7916625	-0.742976	0.4760273	0.75125	-5.972753
KCNT2	-0.056144	6.7638632	-0.74296	0.4760368	0.75125	-5.972765
C1GALT1	-0.103663	7.5559005	-0.742929	0.4760544	0.75125	-5.972788
PRR36	-0.050774	6.8206782	-0.742866	0.476091	0.75125	-5.972836
MMACHC	0.0769606	8.6095735	0.7427201	0.476175	0.75125	-5.972945
CTSC	-0.044642	8.7609199	-0.742661	0.4762091	0.75125	-5.972989
ZNF239	0.0650309	7.046324	0.7425486	0.476274	0.75125	-5.973073
MED17	-0.047231	7.2933232	-0.742492	0.4763067	0.75125	-5.973115
NKD2	0.0549577	6.757213	0.7424316	0.4763415	0.75125	-5.97316
ARSK	0.0601738	7.1392148	0.7423639	0.4763806	0.75125	-5.973211
ADAM15	-0.058363	8.8224887	-0.742135	0.4765126	0.75126	-5.973382
RENBP	0.0462432	6.7210122	0.7420369	0.4765694	0.75126	-5.973455
DPY19L2P1	0.0543067	6.8321449	0.7420187	0.4765798	0.75126	-5.973468
TSPAN32	-0.047384	6.8628845	-0.741989	0.4765972	0.75126	-5.973491
TRIM45	-0.047146	6.89096	-0.741876	0.4766622	0.75128	-5.973575
ZSWIM4	-0.048275	7.7705244	-0.741642	0.4767974	0.75142	-5.97375
OR2AG2	-0.050776	6.8887769	-0.741371	0.4769537	0.75155	-5.973952
ACTR8	0.06068	7.7231189	0.7413106	0.4769888	0.75155	-5.973997
DIXDC1	-0.047464	6.8057711	-0.740905	0.4772231	0.75169	-5.9743
SEMA6A	0.0460529	6.9344251	0.7407005	0.4773413	0.75169	-5.974452
DNMT3A	-0.071015	6.8650729	-0.740681	0.4773528	0.75169	-5.974467

SUN2	-0.072327	10.016899	-0.740652	0.4773694	0.75169	-5.974488
CARMIL3	-0.05193	7.0324448	-0.740647	0.4773724	0.75169	-5.974492
TTL	0.0607886	9.376013	0.7405864	0.4774072	0.75169	-5.974537
BOLA1	0.0460294	6.9170124	0.7405364	0.4774362	0.75169	-5.974574
FRYL	0.0490006	7.3871167	0.740108	0.4776838	0.752	-5.974894
HSPA4L	-0.070151	6.8633856	-0.73969	0.4779254	0.7523	-5.975205
SOCS5	-0.046343	7.3555642	-0.73953	0.4780181	0.75236	-5.975324
AKR7L	-0.054511	6.9833001	-0.739306	0.4781477	0.75249	-5.975491
C9orf85	-0.07069	7.667837	-0.739219	0.478198	0.75249	-5.975556
DUT	-0.070313	9.4996397	-0.738824	0.4784266	0.75276	-5.97585
UHRF1BP1	0.0531973	7.978407	0.7384085	0.4786671	0.75306	-5.976159
ZNF83	-0.081743	7.9922865	-0.737974	0.478919	0.75334	-5.976482
ANKZF1	0.056974	7.3131726	0.7379204	0.4789498	0.75334	-5.976521
RDX	-0.065259	6.7681642	-0.737442	0.479227	0.7537	-5.976877
CNTROB	0.0775372	7.1458652	0.7371148	0.4794165	0.75372	-5.97712
WDR27	0.0659171	7.5753065	0.7370844	0.4794341	0.75372	-5.977142
SYNC	-0.053784	6.9764225	-0.737083	0.4794349	0.75372	-5.977143
PPP2R2B	-0.046422	7.440671	-0.737064	0.4794462	0.75372	-5.977158
MEA1	0.0879392	8.7752001	0.7365901	0.4797206	0.75404	-5.977509
SMPD4	0.0481707	7.1122312	0.7365303	0.4797553	0.75404	-5.977554
PKN2	0.0477858	7.514783	0.7359383	0.4800986	0.75443	-5.977993
ARHGEF6	-0.065689	9.6574197	-0.735851	0.480149	0.75443	-5.978057
UACA	-0.05268	6.8870801	-0.735837	0.4801576	0.75443	-5.978068
PPIL6	-0.06099	6.7857451	-0.735387	0.4804182	0.75464	-5.978401
NUP107	-0.08651	10.107471	-0.735263	0.4804902	0.75464	-5.978493
IGIP	-0.07767	7.1047969	-0.735219	0.4805163	0.75464	-5.978526
CASP10	0.0495363	6.9041699	0.7351717	0.4805434	0.75464	-5.978561
HOXB6	-0.055291	7.0653952	-0.735158	0.4805516	0.75464	-5.978571
BANK1	-0.080914	7.73745	-0.734855	0.4807272	0.75484	-5.978795
MRGPRX4	-0.070574	6.9562093	-0.734637	0.4808537	0.75493	-5.978956
DCLK3	-0.078568	7.1621989	-0.734573	0.4808911	0.75493	-5.979004
ADAMTS13	-0.061139	6.8710905	-0.734443	0.4809662	0.75497	-5.9791
PBDC1	0.0500322	9.9987876	0.7343085	0.4810446	0.75501	-5.9792
SIPA1	-0.051482	8.3656916	-0.734004	0.4812215	0.7552	-5.979425
DNMT3L	-0.048489	6.7893778	-0.733918	0.4812713	0.7552	-5.979488
RNF185	0.0534411	7.3391986	0.7334082	0.4815677	0.75558	-5.979865
TLE1	0.0453136	6.9075628	0.7333322	0.4816118	0.75558	-5.979922
FAM175B	-0.106637	9.5976112	-0.732681	0.4819905	0.75609	-5.980403
SLC16A3	0.0481302	6.6875944	0.7325069	0.4820917	0.75617	-5.980531
RNF5	0.0475402	8.4506229	0.7323402	0.4821886	0.7562	-5.980654
FAM24B	0.049067	6.820421	0.7322901	0.4822178	0.7562	-5.980691
ZDHHC14	0.1689864	9.2659551	0.7320798	0.4823402	0.75629	-5.980846
KIAA1429	0.0495738	8.5291363	0.731884	0.4824541	0.75629	-5.980991
GOT1	-0.067678	11.119134	-0.731879	0.4824568	0.75629	-5.980994
ARF4	0.0531568	10.597587	0.7317534	0.4825301	0.75629	-5.981087

TRPC1	-0.058988	7.3112436	-0.731662	0.4825833	0.75629	-5.981155
ACVR1B	0.0458483	7.4153343	0.7316588	0.4825851	0.75629	-5.981157
TEX28	0.0484893	6.8000911	0.7312361	0.4828312	0.75656	-5.981469
GAGE12J	0.0581948	6.8501599	0.7311308	0.4828924	0.75656	-5.981546
SNX24	-0.046221	6.7525239	-0.731095	0.4829132	0.75656	-5.981573
SLC26A5	0.0437379	6.8323464	0.7307878	0.4830922	0.75671	-5.981799
NAA25	0.0673458	7.9944398	0.730751	0.4831136	0.75671	-5.981826
RABIF	0.0565437	7.0787652	0.7306226	0.4831884	0.75675	-5.981921
OBP2B	0.0655431	6.8998233	0.7305186	0.483249	0.75676	-5.981997
CCAR2	0.0708656	7.8663455	0.7302355	0.4834139	0.75694	-5.982206
NOP10	0.0529762	12.755274	0.73001	0.4835453	0.75698	-5.982372
DBIL5P	0.0468635	7.0484335	0.7300089	0.4835459	0.75698	-5.982373
LINC00608	0.0582446	7.1498642	0.7297816	0.4836784	0.75699	-5.98254
UBXN6	-0.055914	8.3913323	-0.729781	0.4836789	0.75699	-5.982541
BMP8A	-0.048798	6.8081447	-0.729735	0.4837054	0.75699	-5.982574
SLCO1B1	0.0593099	6.9908002	0.7295756	0.4837984	0.75704	-5.982691
SPOUT1	-0.092697	9.3674455	-0.729498	0.4838436	0.75704	-5.982748
HPDL	-0.046272	6.7493351	-0.72905	0.4841047	0.75737	-5.983078
TRIM9	0.0519706	8.1098495	0.7289606	0.484157	0.75737	-5.983144
ATP9B	-0.073634	7.0883014	-0.728767	0.4842701	0.7574	-5.983286
PAK3	-0.049392	6.7737787	-0.728743	0.4842841	0.7574	-5.983304
ATG12	-0.047439	8.1954075	-0.728667	0.4843282	0.7574	-5.983359
TMEM255A	-0.081025	7.037585	-0.728436	0.4844627	0.75752	-5.983529
TAPBP	0.0680965	8.0579331	0.7282411	0.4845767	0.75762	-5.983672
PSME2	-0.048764	12.716762	-0.728063	0.4846808	0.7577	-5.983803
FAM172A	0.0642492	7.6206512	0.7275504	0.4849799	0.75804	-5.984179
SRR	-0.050487	7.0913572	-0.727437	0.4850463	0.75804	-5.984263
RFC4	0.0473359	10.369452	0.7274225	0.4850545	0.75804	-5.984273
KRTAP13-1	0.0491273	6.8144894	0.7268637	0.4853808	0.75814	-5.984683
AAED1	-0.048991	6.9081083	-0.726853	0.4853872	0.75814	-5.984691
RPS24	-0.065622	12.974191	-0.726819	0.4854068	0.75814	-5.984716
TTC39B	-0.053164	6.8938473	-0.726801	0.4854176	0.75814	-5.984729
NDUFA5	-0.056201	7.5422427	-0.726644	0.4855092	0.75814	-5.984844
ZNF207	0.0628679	11.217544	0.7266014	0.4855341	0.75814	-5.984875
ADCY3	0.0616746	11.030079	0.7265161	0.4855839	0.75814	-5.984938
KTN1	0.0525072	9.0234425	0.7265159	0.485584	0.75814	-5.984938
STK38L	-0.061298	7.2001074	-0.72643	0.4856344	0.75814	-5.985001
CD300C	0.0523683	6.8839983	0.7264286	0.4856351	0.75814	-5.985002
APOBEC3F	-0.047543	7.9693081	-0.72617	0.4857864	0.75825	-5.985192
TNFRSF8	0.0530277	7.0090734	0.7259877	0.4858927	0.75825	-5.985325
SP8	-0.052508	6.9079608	-0.725955	0.4859115	0.75825	-5.985349
FEZ2	0.0534332	9.6211162	0.7258888	0.4859505	0.75825	-5.985398
REP15	0.0666227	6.9624527	0.7258615	0.4859665	0.75825	-5.985418
SNAI3-AS1	-0.043565	6.8946274	-0.725493	0.4861821	0.75845	-5.985688
SLC41A2	-0.086215	7.3679656	-0.725388	0.4862436	0.75845	-5.985765

ENAH	-0.066152	7.0461894	-0.725379	0.4862487	0.75845	-5.985771
OR4C13	-0.05426	6.8093845	-0.725195	0.4863561	0.75851	-5.985905
CHURC1	-0.095054	10.074573	-0.725135	0.4863915	0.75851	-5.98595
ZNF800	0.0894563	8.6383571	0.7250228	0.4864569	0.75853	-5.986031
SDK2	0.0443699	6.9108681	0.7246984	0.4866467	0.75874	-5.986269
LSM14B	-0.047829	6.8632511	-0.724503	0.4867613	0.75884	-5.986412
ADM	0.0502331	7.1314105	0.7244077	0.4868168	0.75885	-5.986481
ZNF514	-0.046559	6.8366163	-0.724102	0.4869954	0.75899	-5.986704
TMEM191A	0.0544492	6.8751932	0.7240711	0.4870138	0.75899	-5.986727
PTPN22	-0.068042	8.5428818	-0.723852	0.4871418	0.75903	-5.986887
SERAC1	-0.067069	7.3158434	-0.723598	0.4872906	0.75903	-5.987073
CTPS2	-0.050428	8.2113877	-0.723573	0.4873051	0.75903	-5.987091
UNKL	0.0617708	7.3157406	0.7235286	0.4873314	0.75903	-5.987124
KIAA0825	0.0498353	6.8102786	0.7235228	0.4873348	0.75903	-5.987128
IL21R	0.0488836	7.8201377	0.7234983	0.4873492	0.75903	-5.987146
MBL1P	-0.054258	6.8440009	-0.723358	0.4874311	0.75908	-5.987248
RNF157	0.0671475	6.8588516	0.7231151	0.4875736	0.75915	-5.987425
SLCO4C1	0.0557432	6.9525436	0.7231034	0.4875804	0.75915	-5.987434
WDR89	-0.048048	7.2061674	-0.722911	0.4876929	0.75924	-5.987574
RPS28	-0.058559	13.361621	-0.721498	0.4885217	0.76037	-5.988605
TOP1P2	0.0692525	8.443938	0.7213426	0.4886126	0.76037	-5.988718
CCM2	-0.051242	8.2770811	-0.72134	0.4886138	0.76037	-5.988719
DNTTIP2	-0.071334	6.9610411	-0.721322	0.4886245	0.76037	-5.988733
SHE	-0.050042	6.8389221	-0.721072	0.4887714	0.76051	-5.988915
TCTN3	0.0597224	8.0939079	0.7209409	0.4888482	0.76055	-5.98901
LINC01565	0.0650404	6.9170349	0.7208091	0.4889256	0.76059	-5.989106
RBAKDN	0.0684727	7.0268381	0.7201712	0.4893	0.76109	-5.98957
NEFM	-0.05245	6.8746521	-0.720027	0.4893847	0.76114	-5.989675
MUC6	0.0502576	7.0024695	0.7199185	0.4894484	0.76116	-5.989754
CNN3	0.0455309	6.8237283	0.7196961	0.489579	0.76128	-5.989916
CHRNE	0.0535351	7.0836735	0.7190658	0.4899493	0.76178	-5.990374
PGM2	-0.071438	9.0579946	-0.718796	0.4901077	0.76186	-5.990569
ACRBP	-0.051892	6.7964119	-0.718793	0.4901093	0.76186	-5.990571
SLAMF7	-0.061135	7.3543836	-0.718413	0.4903331	0.76204	-5.990848
IQCD	0.0605677	7.0220743	0.7184125	0.4903332	0.76204	-5.990848
ADNP	0.0451236	8.1262312	0.718305	0.4903964	0.76204	-5.990926
CA2	-0.046859	6.7552642	-0.718182	0.4904687	0.76204	-5.991015
SERTAD1	0.0633288	7.9829672	0.7181591	0.4904822	0.76204	-5.991032
PDIA5	0.0499599	7.8259897	0.717835	0.4906728	0.76225	-5.991267
CAMKK2	0.1088291	7.9262938	0.7176963	0.4907543	0.7623	-5.991367
LPAR5	0.0557175	8.4083931	0.7174016	0.4909277	0.76243	-5.991581
KCNA2	-0.049683	6.8272847	-0.717379	0.4909412	0.76243	-5.991598
SLC30A1	0.0430991	7.4603847	0.7171707	0.4910636	0.76254	-5.991748
RASSF7	-0.049499	9.2208748	-0.716768	0.4913006	0.76279	-5.99204
CILP	-0.049435	6.7510778	-0.716717	0.4913305	0.76279	-5.992077

ZBTB8A	-0.068887	7.138149	-0.716528	0.4914416	0.76288	-5.992213
TMEM5	0.072085	10.162108	0.7161569	0.4916603	0.76313	-5.992482
GPR137	-0.056585	10.705556	-0.716072	0.4917101	0.76313	-5.992544
PGM3	0.0534746	7.8347144	0.7156928	0.4919336	0.76336	-5.992818
TSPAN14	0.0681472	7.6184673	0.7156479	0.4919601	0.76336	-5.992851
MEGF10	0.0691881	7.0408442	0.7155484	0.4920187	0.76337	-5.992922
COPE	0.0963764	10.020284	0.7151395	0.4922597	0.76365	-5.993218
PUS7L	0.0498403	8.0003016	0.7150584	0.4923075	0.76365	-5.993277
PARP9	-0.054667	8.2522106	-0.714692	0.4925232	0.76382	-5.993541
CDC34	0.0787041	8.7295989	0.7146867	0.4925266	0.76382	-5.993545
SFRP2	0.043835	6.7592846	0.7145228	0.4926232	0.76382	-5.993664
OR7G1	0.0571986	6.9572719	0.714377	0.4927092	0.76382	-5.993769
GUCA1B	-0.048996	6.9933167	-0.714282	0.4927653	0.76382	-5.993838
MON1A	-0.047894	7.2800716	-0.714183	0.4928234	0.76382	-5.993909
TSSC4	-0.065589	9.6034476	-0.71418	0.4928253	0.76382	-5.993911
HIST1H1D	-0.052432	6.8621916	-0.714164	0.4928347	0.76382	-5.993923
NPHP3	-0.081897	7.3953131	-0.713743	0.4930834	0.76413	-5.994227
ZNF177	-0.04425	7.0201983	-0.713548	0.4931984	0.76415	-5.994367
XRCC4	-0.054553	6.858477	-0.71354	0.4932026	0.76415	-5.994373
SNORA75	-0.065632	7.1426364	-0.713283	0.4933545	0.76427	-5.994558
IRX3	-0.051674	6.8027286	-0.71323	0.4933856	0.76427	-5.994596
GYG2	0.0510019	6.8665108	0.7129738	0.493537	0.76442	-5.994781
COMMD7	-0.083246	10.663481	-0.71256	0.4937813	0.76472	-5.995079
PABPN1L	0.047004	6.947994	0.7122701	0.4939525	0.76488	-5.995288
CNOT1	0.0461035	8.6686255	0.7122099	0.493988	0.76488	-5.995331
BAMBI	-0.05254	7.4142811	-0.711895	0.4941741	0.76509	-5.995558
LRRC56	-0.052275	7.7306833	-0.711584	0.494358	0.76529	-5.995782
TSFM	0.0617608	8.6049147	0.7114684	0.4944261	0.76531	-5.995865
CCDC134	-0.053994	7.010533	-0.711279	0.494538	0.76534	-5.996001
FIG4	0.0553489	8.2575092	0.711268	0.4945445	0.76534	-5.996009
SLC36A4	0.0589386	7.4549824	0.7111721	0.4946012	0.76534	-5.996078
LINC00909	0.049618	8.1751769	0.7109515	0.4947316	0.76537	-5.996237
COPS5	0.057708	11.62737	0.7108911	0.4947673	0.76537	-5.99628
PMF1	0.0463815	7.9485614	0.7108754	0.4947766	0.76537	-5.996292
WDR73	0.1021923	7.7566695	0.7106632	0.4949021	0.76548	-5.996444
SERPINB9	0.0616376	7.2375674	0.7105275	0.4949823	0.76553	-5.996542
RPS12	0.061345	14.427249	0.7101581	0.4952008	0.76578	-5.996807
ADCK5	0.0610295	7.1898902	0.7099557	0.4953205	0.76581	-5.996952
VASH2	0.05157	6.8203754	0.7098023	0.4954113	0.76581	-5.997063
BTD	0.0766994	7.0305069	0.7097547	0.4954394	0.76581	-5.997097
PRR20D	0.059868	7.0028632	0.709711	0.4954653	0.76581	-5.997128
TAF8	-0.045164	7.2351755	-0.709687	0.4954795	0.76581	-5.997145
LOC100652	0.0521718	7.0342154	0.7089916	0.4958911	0.76636	-5.997644
HAPLN3	-0.044528	6.858953	-0.708733	0.4960441	0.76651	-5.99783
NDUFAF1	0.0880153	9.1285979	0.708604	0.4961206	0.76651	-5.997922

PLD1	-0.04728	6.8966371	-0.708565	0.4961435	0.76651	-5.99795
NPR2	-0.056269	7.1225807	-0.708296	0.4963031	0.76657	-5.998143
ZXDC	-0.048534	7.2241513	-0.70818	0.4963719	0.76657	-5.998226
TOM1L2	-0.048858	7.135788	-0.708178	0.4963732	0.76657	-5.998228
SAMSN1	0.057164	8.0829711	0.7081399	0.4963955	0.76657	-5.998255
LRRC6	-0.046788	6.7105942	-0.707936	0.4965162	0.76667	-5.998401
PCDH18	-0.049765	6.8906427	-0.707775	0.4966119	0.76667	-5.998516
LILRA3	-0.045526	6.7682876	-0.707771	0.496614	0.76667	-5.998519
FKBP4	-0.073236	11.163158	-0.707654	0.4966832	0.76669	-5.998602
NR4A1	0.0537531	6.833853	0.7072335	0.4969326	0.76695	-5.998904
DEFB103A	-0.048209	6.8456754	-0.707116	0.4970026	0.76695	-5.998988
EPOR	0.0497412	7.3491303	0.7071111	0.4970052	0.76695	-5.998991
SCUBE1	-0.066173	6.9382907	-0.706974	0.4970864	0.76696	-5.999089
CST7	-0.050894	6.9646252	-0.706915	0.4971212	0.76696	-5.999131
SOCS4	0.0469767	7.6675484	0.7064583	0.4973923	0.7672	-5.999458
PLPP2	0.0460581	6.9038402	0.7064453	0.4974	0.7672	-5.999467
TUBB4A	0.0526133	6.9250918	0.7063971	0.4974286	0.7672	-5.999502
SLC35F1	-0.058588	6.9068686	-0.706298	0.4974875	0.7672	-5.999573
ZNF680	-0.071953	7.8970027	-0.706219	0.4975344	0.7672	-5.999629
CD96	-0.056734	6.8608471	-0.706073	0.4976207	0.76725	-5.999733
GAPT	0.0446848	6.9498656	0.7056398	0.4978779	0.76756	-6.000043
TYRO3	-0.045005	6.6951111	-0.705389	0.4980266	0.76765	-6.000222
FMO1	-0.050342	6.8993627	-0.705366	0.4980406	0.76765	-6.000239
GIMAP7	-0.04982	6.7918678	-0.705077	0.4982118	0.76784	-6.000444
BCL7A	0.0585912	7.9283421	0.704887	0.4983249	0.76793	-6.00058
ZNF707	-0.071453	7.285515	-0.704609	0.4984902	0.7681	-6.000779
MRM2	0.0491667	7.7367232	0.7040583	0.4988172	0.76852	-6.001171
WDR7	0.0521369	7.5570441	0.7038078	0.498966	0.76861	-6.00135
HIBADH	-0.060844	9.8779708	-0.70379	0.4989765	0.76861	-6.001362
TCEAL6	0.0441402	6.799772	0.7036536	0.4990577	0.76862	-6.00146
SMYD3	-0.066227	9.1730051	-0.703457	0.4991748	0.76862	-6.0016
LOC729458	0.044314	6.7887654	0.7034551	0.4991756	0.76862	-6.001601
NBPF3	-0.051612	7.9598503	-0.703413	0.4992005	0.76862	-6.001631
CSNK2A1	0.047454	8.6755852	0.7033318	0.499249	0.76862	-6.001689
TRPC5	0.051232	6.9349016	0.7032263	0.4993117	0.76864	-6.001764
ZNF484	0.0750178	7.1635607	0.7028683	0.4995245	0.76888	-6.002019
SYVN1	0.0582991	9.1978814	0.7025716	0.499701	0.76907	-6.00223
WDR13	-0.053786	8.742237	-0.702484	0.4997529	0.76907	-6.002292
LOC100131(	0.0499853	6.8263847	0.7023729	0.4998192	0.76909	-6.002371
FAM214B	0.0438978	6.966352	0.7021444	0.4999552	0.76916	-6.002534
RUSC1	-0.052209	9.2227342	-0.701929	0.5000835	0.76916	-6.002687
LINC00305	0.0468927	6.7884323	0.7019285	0.5000837	0.76916	-6.002687
CHD5	-0.051566	6.8915741	-0.701866	0.5001211	0.76916	-6.002732
ZBED5	-0.050565	9.4693096	-0.70186	0.5001247	0.76916	-6.002736
CASP3	-0.053054	8.4910655	-0.701712	0.5002127	0.76921	-6.002841

WHAMMP3	0.0481382	6.7642322	0.7014186	0.5003872	0.7694	-6.003049
OAZ2	0.0879265	8.3916074	0.7012583	0.5004826	0.76947	-6.003163
NUCB2	-0.087085	9.0206886	-0.700616	0.500865	0.76952	-6.003619
RFX2	0.0578923	6.9688915	0.7004526	0.5009625	0.76952	-6.003735
AMZ2	-0.051889	8.8889848	-0.700435	0.5009733	0.76952	-6.003748
RCBTB1	-0.045347	7.091645	-0.700396	0.5009963	0.76952	-6.003775
LCORL	-0.044268	6.8763111	-0.700329	0.5010361	0.76952	-6.003823
CORO2A	0.0432716	6.8816371	0.7002709	0.5010708	0.76952	-6.003864
CCDC174	-0.073476	9.1708802	-0.700258	0.5010786	0.76952	-6.003873
AKR7A2	-0.098028	11.095378	-0.70015	0.5011428	0.76952	-6.00395
C5orf22	0.0558085	7.9027946	0.7001	0.5011726	0.76952	-6.003985
USF3	0.0466736	6.8436507	0.700084	0.5011822	0.76952	-6.003997
AOX2P	0.0539578	6.8749792	0.7000488	0.5012031	0.76952	-6.004021
RMND1	0.0629125	7.7285181	0.7000362	0.5012107	0.76952	-6.00403
TMEM43	-0.056544	9.5310539	-0.7	0.5012325	0.76952	-6.004056
CDPF1	0.0493743	7.4975544	0.699866	0.5013121	0.76952	-6.004151
PIGC	0.0447269	8.3414936	0.6998276	0.501335	0.76952	-6.004178
TUBG1	0.0506233	9.3123591	0.6997846	0.5013606	0.76952	-6.004209
MYO9B	0.0713932	8.0340091	0.699661	0.5014343	0.76955	-6.004296
NOM1	0.0448896	6.9784216	0.6993541	0.5016173	0.76968	-6.004514
WDR53	0.0441081	7.9900674	0.6992337	0.5016891	0.76968	-6.004599
P2RX1	0.0452594	6.884302	0.6991755	0.5017238	0.76968	-6.00464
MRPS31P5	0.063117	7.1152137	0.6991659	0.5017295	0.76968	-6.004647
LRRTM1	0.0906402	6.8631007	0.6990807	0.5017803	0.76968	-6.004708
MAP7D1	0.0438089	9.7228009	0.6988596	0.5019122	0.7698	-6.004864
CACFD1	-0.043934	7.2370186	-0.698616	0.5020575	0.76989	-6.005037
HCK	-0.058484	6.9571573	-0.698584	0.5020764	0.76989	-6.005059
TOPBP1	0.0978305	8.9790359	0.6984298	0.5021686	0.76995	-6.005168
POLR3H	-0.055367	7.7398745	-0.698291	0.5022517	0.77	-6.005267
CYTIP	-0.059391	8.1293289	-0.698147	0.5023377	0.77001	-6.005369
S100A14	0.0598908	7.3188421	0.6981017	0.5023644	0.77001	-6.0054
SAMM50	-0.04992	10.907684	-0.697503	0.5027215	0.77035	-6.005823
DLG1	0.0632801	7.1718061	0.697383	0.5027935	0.77035	-6.005909
SPATA20	0.0470072	6.7174054	0.6973814	0.5027944	0.77035	-6.00591
SPPL2B	0.0471553	6.9550956	0.6973768	0.5027971	0.77035	-6.005913
MIR1281	0.0540876	7.0472885	0.6971778	0.502916	0.77045	-6.006054
KPNA2	-0.061807	9.2340112	-0.697043	0.5029964	0.77049	-6.006149
TSPAN1	0.0524816	7.0412513	0.6968166	0.5031317	0.77055	-6.006309
C3orf14	-0.049335	6.7738688	-0.696729	0.5031841	0.77055	-6.00637
CCDC77	-0.056366	9.2285676	-0.6967	0.5032017	0.77055	-6.006391
AKAP9	-0.066869	6.9088013	-0.696629	0.5032437	0.77055	-6.006441
MAP3K4	0.0626896	8.9142159	0.6964204	0.5033685	0.77057	-6.006588
FRRS1	0.0494516	7.1407382	0.6962377	0.5034777	0.77057	-6.006717
NUGGC	-0.058153	6.9813318	-0.696188	0.5035075	0.77057	-6.006752
SQSTM1	0.048099	11.414653	0.696164	0.5035217	0.77057	-6.006769

ANKRD22	-0.043043	7.0099432	-0.696161	0.5035237	0.77057	-6.006772
ENOX2	0.0581214	7.2313535	0.6960277	0.5036032	0.77061	-6.006865
SS18	-0.055565	8.6315446	-0.695813	0.5037318	0.77073	-6.007017
DNAJC4	-0.047494	7.5110606	-0.695712	0.5037917	0.77073	-6.007088
STX5	0.0583126	8.6546384	0.6956347	0.5038381	0.77073	-6.007143
GAS2L1	-0.05004	6.832223	-0.695466	0.5039387	0.7708	-6.007261
ST8SIA4	-0.057045	7.3642755	-0.695201	0.5040973	0.77096	-6.007448
LY6G5B	-0.050728	6.8826262	-0.695102	0.5041568	0.77097	-6.007518
SLC6A7	-0.044425	6.8604574	-0.694921	0.5042652	0.77106	-6.007646
IGFBP2	0.0456716	6.8635439	0.6944851	0.5045258	0.77138	-6.007953
THAP10	0.0519237	6.731938	0.694219	0.504685	0.77154	-6.00814
HPSE2	0.0431046	7.1030604	0.6941338	0.504736	0.77154	-6.0082
TMEM223	0.0507219	8.120344	0.6937913	0.504941	0.77169	-6.008441
IMMP1L	-0.05025	7.1335323	-0.693787	0.5049437	0.77169	-6.008444
NDUFB5	-0.080398	11.699079	-0.693478	0.5051287	0.77188	-6.008661
SPHK1	-0.042223	6.7608796	-0.693234	0.5052745	0.77188	-6.008832
MPP3	0.0501926	6.8776427	0.693222	0.505282	0.77188	-6.008841
RHBDL2	-0.064941	7.6319505	-0.693118	0.5053441	0.77188	-6.008914
ZNF774	-0.055055	6.8989863	-0.693054	0.5053825	0.77188	-6.008959
LOC441179	0.0452577	6.9359627	0.6930514	0.5053842	0.77188	-6.008961
BMPR2	0.052188	7.281191	0.6928107	0.5055283	0.77188	-6.00913
HGD	0.0450176	6.9362714	0.692786	0.5055432	0.77188	-6.009147
CHIC1	-0.043333	6.8504329	-0.692715	0.5055855	0.77188	-6.009197
MME	0.0980421	9.7876278	0.6926932	0.5055988	0.77188	-6.009213
CD302	-0.041527	6.8054023	-0.692494	0.5057182	0.77193	-6.009353
TP53RK	-0.048802	8.8411427	-0.692463	0.5057368	0.77193	-6.009374
ALG12	-0.052814	7.1646466	-0.692164	0.5059159	0.77205	-6.009584
TNFAIP1	0.0621989	8.2948571	0.6921589	0.505919	0.77205	-6.009588
RGCC	-0.043468	9.7509088	-0.691924	0.5060598	0.77211	-6.009753
CTBP2	-0.071612	7.2095287	-0.691895	0.506077	0.77211	-6.009773
SNORA22	-0.051835	7.3059311	-0.691767	0.5061538	0.77211	-6.009863
RECQL5	-0.048409	7.0198475	-0.691739	0.5061706	0.77211	-6.009882
RSPO3	0.0500703	6.8270326	0.6914829	0.5063243	0.77226	-6.010062
GNA15	0.0654697	7.0532842	0.6911393	0.5065304	0.77246	-6.010303
C6orf136	-0.053232	9.2717739	-0.691092	0.5065588	0.77246	-6.010336
GRK4	-0.050383	7.074144	-0.690957	0.5066398	0.7725	-6.010431
C6orf120	-0.068487	7.3018989	-0.690747	0.5067656	0.77262	-6.010578
UNC5CL	-0.045602	6.7766518	-0.690604	0.5068518	0.77267	-6.010678
MPP5	0.0501456	8.0166805	0.6904431	0.5069481	0.77273	-6.010791
SLC25A51	-0.067855	9.1788058	-0.690247	0.507066	0.77283	-6.010928
LTB4R	0.0798935	7.3919809	0.6901226	0.5071405	0.77286	-6.011015
TSC1	-0.041801	8.0382625	-0.689956	0.5072404	0.77294	-6.011132
NDUFA4L2	0.0444481	7.0902267	0.6896777	0.5074076	0.77311	-6.011327
DTYMK	0.0611381	6.9525938	0.6890913	0.5077598	0.77344	-6.011737
ST6GALNAC	0.0569794	8.5916596	0.689076	0.507769	0.77344	-6.011747

ARPC5L	0.0614615	9.7400846	0.6890522	0.5077833	0.77344	-6.011764
SLC24A4	0.0552646	6.9025045	0.6888677	0.5078942	0.77353	-6.011893
STMN2	0.0536861	6.9568443	0.6885192	0.5081036	0.77377	-6.012137
S100P	0.0454569	6.7378455	0.6884082	0.5081703	0.77377	-6.012214
RBP7	-0.045165	6.9107667	-0.68817	0.5083133	0.77377	-6.01238
AZIN1-AS1	0.0697839	7.4561696	0.6879971	0.5084175	0.77377	-6.012501
LINC00968	0.0417648	6.8794212	0.6879389	0.5084525	0.77377	-6.012542
SETD3	0.041533	8.7560687	0.68791	0.5084698	0.77377	-6.012562
ZBTB46	-0.044687	6.7643704	-0.687904	0.5084736	0.77377	-6.012566
PDF	-0.060294	7.054504	-0.687899	0.5084762	0.77377	-6.012569
NAXE	-0.073768	10.543428	-0.687763	0.5085581	0.77381	-6.012664
SERINC5	0.0444179	6.9408822	0.6874415	0.5087516	0.77403	-6.012889
P4HA1	-0.081242	9.3532618	-0.687248	0.508868	0.77407	-6.013024
SLC1A1	-0.06655	7.8744261	-0.687212	0.5088894	0.77407	-6.013049
FNBP4	0.0690425	10.270803	0.6870817	0.508968	0.77411	-6.01314
ZMYND8	0.043079	7.6494365	0.6869691	0.5090358	0.77414	-6.013218
ASCC3	0.045834	8.37868	0.6868328	0.5091178	0.77418	-6.013313
FZD9	-0.044957	6.700046	-0.686474	0.5093337	0.77443	-6.013563
TAS2R14	-0.080563	7.2880838	-0.686085	0.5095681	0.7745	-6.013835
EZH2	0.056839	8.8130818	0.6860444	0.5095923	0.7745	-6.013863
STX6	0.0596369	8.8858792	0.6860271	0.5096028	0.7745	-6.013875
RPP25L	0.0497083	8.3863452	0.6859839	0.5096288	0.7745	-6.013905
NLRP5	-0.054457	6.8603452	-0.685913	0.5096714	0.7745	-6.013954
SLC35B3	-0.048359	7.9319403	-0.685861	0.5097027	0.7745	-6.01399
PRPSAP2	-0.049745	10.597061	-0.685043	0.5101956	0.77517	-6.01456
GSTM4	0.0433379	7.1018122	0.6846976	0.5104037	0.77541	-6.0148
VPS37C	-0.042102	9.6518415	-0.684568	0.5104818	0.77545	-6.01489
EXPH5	-0.047955	6.8241202	-0.684103	0.5107619	0.77561	-6.015213
FBXO41	0.0949407	7.5685271	0.6841031	0.510762	0.77561	-6.015213
DCAF4	-0.05099	8.7749234	-0.683997	0.5108257	0.77561	-6.015286
SZRD1	0.0627713	6.9830625	0.6839799	0.5108363	0.77561	-6.015298
PGBD5	-0.043504	6.7133539	-0.683944	0.5108582	0.77561	-6.015323
CCDC149	-0.043537	6.8321207	-0.683863	0.5109067	0.77561	-6.015379
ZNF675	0.0491254	7.0352235	0.6836018	0.5110643	0.7757	-6.015561
OSCP1	-0.058253	7.2874591	-0.683532	0.5111064	0.7757	-6.015609
CAPN5	-0.043961	6.826308	-0.683495	0.511129	0.7757	-6.015635
NFIX	0.044144	6.7376453	0.6830357	0.5114059	0.77603	-6.015954
BCHE	0.0440913	6.8271928	0.6829562	0.5114538	0.77603	-6.016009
ASAP2	0.0413353	6.82618	0.6828404	0.5115237	0.77606	-6.016089
KDM5A	0.0461544	7.9932929	0.6824908	0.5117347	0.77607	-6.016331
MIR1224	0.0682572	7.2213999	0.6824883	0.5117362	0.77607	-6.016333
GSTA3	0.0466645	6.9826209	0.6824531	0.5117575	0.77607	-6.016357
PIR	-0.047191	6.8000007	-0.682435	0.5117683	0.77607	-6.01637
CES3	0.0403295	6.851936	0.6823845	0.5117989	0.77607	-6.016405
SBF2	-0.066579	7.3385033	-0.682214	0.511902	0.77612	-6.016523

CNIH4	-0.168998	10.269374	-0.682162	0.5119334	0.77612	-6.016559
KCNA1	0.0661527	6.9357956	0.6818889	0.5120981	0.77622	-6.016748
LOC440313	-0.060274	6.9693455	-0.681864	0.5121132	0.77622	-6.016766
LRRC8C	-0.044843	7.1379796	-0.681752	0.5121808	0.77622	-6.016843
NUTM2A	-0.047001	6.9033903	-0.6817	0.5122123	0.77622	-6.016879
CEP250	-0.044248	6.9282527	-0.68157	0.5122907	0.77625	-6.016969
PROCR	0.058704	7.1834547	0.6813911	0.5123988	0.77634	-6.017093
NOD2	-0.048346	6.6953924	-0.680849	0.5127263	0.77653	-6.017468
OAF	-0.050894	6.7933451	-0.680752	0.5127847	0.77653	-6.017535
FAM53A	0.0749203	6.9783592	0.6807199	0.5128044	0.77653	-6.017557
TMEM70	-0.069426	9.4246686	-0.680688	0.5128236	0.77653	-6.017579
MPDU1	-0.061934	8.3907003	-0.680608	0.5128719	0.77653	-6.017635
NSFL1C	-0.046782	8.8343831	-0.680599	0.5128774	0.77653	-6.017641
USP4	-0.047019	7.7027236	-0.680567	0.512897	0.77653	-6.017663
VN1R5	-0.053584	6.9335731	-0.680474	0.5129528	0.77653	-6.017727
TNFRSF4	-0.054764	6.8985513	-0.68019	0.5131245	0.77666	-6.017923
C1orf122	0.0765052	8.1730155	0.6801532	0.513147	0.77666	-6.017949
LOC260339	-0.052607	6.8443348	-0.679906	0.5132964	0.77681	-6.01812
DLX4	-0.041262	6.8568166	-0.679342	0.5136376	0.77703	-6.018509
DRG1	0.0782278	11.041414	0.6793287	0.5136457	0.77703	-6.018518
KCNG4	-0.055894	7.0794745	-0.679313	0.5136554	0.77703	-6.018529
ETFRF1	-0.052501	9.498307	-0.679311	0.5136563	0.77703	-6.01853
SYF2	0.058602	9.0157236	0.679187	0.5137314	0.77706	-6.018616
DERL1	0.0441697	9.9580834	0.6790361	0.5138227	0.77706	-6.01872
ENOSF1	-0.043503	6.7096049	-0.678956	0.5138713	0.77706	-6.018776
SUPT7L	0.0515395	7.0380947	0.6788608	0.5139288	0.77706	-6.018841
B4GALT5	0.0599785	9.5922416	0.6787195	0.5140144	0.77706	-6.018939
CALN1	0.0483151	7.391954	0.6786754	0.514041	0.77706	-6.018969
PTPN3	-0.079288	7.0337871	-0.678594	0.51409	0.77706	-6.019025
SCMH1	-0.045099	7.8646693	-0.678573	0.5141032	0.77706	-6.01904
NPSR1-AS1	0.0435285	6.8142263	0.6783564	0.5142341	0.77714	-6.019189
KLHL13	-0.047935	6.8191243	-0.678318	0.5142573	0.77714	-6.019215
EIF4E3	-0.045179	6.7731374	-0.678153	0.5143575	0.77717	-6.019329
CD109	-0.048901	6.7682333	-0.678108	0.5143847	0.77717	-6.01936
CCNL2	-0.078152	7.5889557	-0.67791	0.5145045	0.77727	-6.019497
NPLOC4	0.0906558	8.1819658	0.6773153	0.5148647	0.77765	-6.019906
ZNF799	-0.044736	6.8724487	-0.677283	0.5148843	0.77765	-6.019928
GEMIN7	0.0727366	7.0439876	0.677219	0.514923	0.77765	-6.019972
DDX54	-0.064514	8.4912652	-0.677065	0.5150162	0.77765	-6.020078
KCNAB2	-0.045609	7.0316858	-0.677047	0.5150274	0.77765	-6.020091
TTC39C	-0.049141	6.7653492	-0.676965	0.5150769	0.77765	-6.020147
MYOD1	-0.051859	6.8608778	-0.676625	0.5152831	0.77784	-6.020381
CALM3	0.0457966	12.527203	0.6765471	0.5153302	0.77784	-6.020435
SKIDA1	-0.050186	6.9954123	-0.676332	0.5154608	0.77784	-6.020583
RPL36A	-0.063852	8.6340729	-0.676173	0.5155569	0.77784	-6.020692

RAMP2	0.0514764	7.039237	0.6761358	0.5155796	0.77784	-6.020717
GOLGA7B	0.0655002	7.3410322	0.6761213	0.5155884	0.77784	-6.020727
GPR20	-0.042212	6.8442479	-0.676067	0.5156212	0.77784	-6.020765
MCAT	0.0456962	8.1016857	0.6760128	0.5156542	0.77784	-6.020802
AMPD3	-0.052876	6.8990421	-0.675972	0.5156792	0.77784	-6.02083
VSIR	-0.043794	6.6781692	-0.675808	0.5157786	0.77788	-6.020943
EHD3	0.0566178	6.9191726	0.6757443	0.515817	0.77788	-6.020986
SALL2	0.043947	6.9289267	0.6753935	0.5160299	0.77807	-6.021227
BACH2	0.0524364	6.9161248	0.675366	0.5160465	0.77807	-6.021246
LINC00482	0.0447278	6.8220073	0.6751055	0.5162047	0.77815	-6.021425
XRN2	0.0412099	8.331213	0.6749991	0.5162692	0.77815	-6.021498
CBWD6	0.0460047	7.1175442	0.6749475	0.5163005	0.77815	-6.021533
PSMA3	-0.061568	10.89126	-0.67492	0.5163174	0.77815	-6.021553
NHP2	-0.054442	11.511517	-0.674641	0.5164865	0.77818	-6.021744
MS4A2	-0.04722	6.8669094	-0.67463	0.5164931	0.77818	-6.021751
TPM2	-0.040464	6.7180091	-0.674547	0.5165437	0.77818	-6.021808
WEE2-AS1	-0.042364	6.9838389	-0.674539	0.5165483	0.77818	-6.021813
NCAM1	-0.041669	6.8142922	-0.674292	0.5166984	0.77833	-6.021983
DLX3	0.0550497	6.9393602	0.6741995	0.5167546	0.77833	-6.022046
MED15	-0.042064	6.8745103	-0.674108	0.5168105	0.77834	-6.02211
PAPSS2	0.0689089	6.9680079	0.6737253	0.5170426	0.77856	-6.022371
KRT10	0.0442896	9.9275891	0.6735351	0.5171581	0.77856	-6.022502
CD244	-0.043908	6.7925913	-0.67351	0.5171735	0.77856	-6.022519
NLE1	0.0429324	7.5772775	0.6734202	0.517228	0.77856	-6.02258
GOLGA1	-0.052526	7.3896923	-0.67334	0.5172766	0.77856	-6.022635
MTERF1	0.0548617	8.0664796	0.6733304	0.5172825	0.77856	-6.022642
CCT2	-0.056976	11.972808	-0.673189	0.5173687	0.77861	-6.022739
ABCA2	-0.061132	6.8570643	-0.672817	0.5175948	0.77879	-6.022994
NUP62	0.041293	10.364342	0.6727577	0.5176306	0.77879	-6.023034
SMAD5	0.043109	8.2031143	0.6727215	0.5176526	0.77879	-6.023059
PTBP2	-0.060562	8.578579	-0.672588	0.5177339	0.77879	-6.02315
SLC22A12	0.0448461	6.849903	0.6725605	0.5177505	0.77879	-6.023169
SLC16A6	0.0535644	8.611578	0.6723049	0.5179059	0.77894	-6.023344
PLCL1	-0.048692	6.8470476	-0.672027	0.518075	0.77901	-6.023534
UBE3A	0.0565982	9.141447	0.6719923	0.518096	0.77901	-6.023557
UBTD2	-0.04493	7.7289292	-0.671946	0.518124	0.77901	-6.023589
C17orf80	0.0547196	8.1222015	0.6718804	0.518164	0.77901	-6.023634
LRRC47	0.0695615	10.001861	0.6716834	0.5182838	0.77905	-6.023768
NLRC5	0.0666774	7.1455727	0.671574	0.5183504	0.77905	-6.023843
DAP	0.0538132	8.4099344	0.6715181	0.5183844	0.77905	-6.023881
PTH2	-0.040345	6.7963341	-0.671449	0.5184262	0.77905	-6.023928
STX11	-0.044262	8.1045399	-0.671399	0.5184566	0.77905	-6.023962
DNAH6	-0.03995	6.9025411	-0.671082	0.5186499	0.77918	-6.024179
C6orf58	0.0550312	7.0730509	0.6710791	0.5186515	0.77918	-6.024181
SNX22	0.0469745	8.3112543	0.6709642	0.5187215	0.7792	-6.024259

RPS6KA5	0.0591396	7.8443594	0.6707271	0.5188658	0.77934	-6.024421
SYNM	0.04863	6.8242197	0.6701389	0.5192239	0.77962	-6.024822
TAGLN	-0.051723	7.3843131	-0.670124	0.5192333	0.77962	-6.024833
LOC645177	-0.056927	6.9828543	-0.670095	0.5192508	0.77962	-6.024853
RBM22	-0.064418	11.082515	-0.67007	0.5192657	0.77962	-6.024869
CYB5D2	-0.050316	7.9557562	-0.669899	0.5193703	0.7797	-6.024986
TCEA2	0.0486601	7.8021805	0.6697139	0.5194828	0.77976	-6.025112
C12orf45	-0.078006	9.2077189	-0.669482	0.5196238	0.77976	-6.02527
ZNF32	0.0446692	6.9529669	0.6693318	0.5197156	0.77976	-6.025372
GPR1	-0.067413	8.7577177	-0.669218	0.5197851	0.77976	-6.02545
GPAT3	-0.042676	6.7811196	-0.669212	0.5197889	0.77976	-6.025454
SEC11C	-0.052508	12.007484	-0.669196	0.5197982	0.77976	-6.025465
GAB1	-0.047798	7.07091	-0.669141	0.5198318	0.77976	-6.025502
LINC01184	0.0564819	7.5681597	0.6691275	0.5198401	0.77976	-6.025511
LOC1005064	-0.044056	6.9032067	-0.669026	0.5199019	0.77977	-6.025581
CDK5RAP3	-0.068787	9.1643596	-0.668748	0.5200715	0.77988	-6.02577
GATA6	0.0417688	6.7893141	0.6687301	0.5200823	0.77988	-6.025782
ADRA1A	0.0441167	6.8458312	0.6685763	0.5201761	0.77993	-6.025887
ASS1	0.0453698	7.14835	0.6685061	0.5202189	0.77993	-6.025934
MAGT1	-0.103144	9.4086036	-0.66831	0.5203382	0.78003	-6.026068
ANAPC2	0.0486038	6.9453896	0.6680614	0.52049	0.78017	-6.026237
RAB44	-0.047689	6.9089459	-0.667195	0.5210185	0.78089	-6.026825
DTX3L	-0.066167	7.2877573	-0.666749	0.5212908	0.78121	-6.027128
PLK1	-0.056963	7.974318	-0.666661	0.5213448	0.78121	-6.027188
STAT5B	-0.051076	7.7300463	-0.66641	0.5214977	0.78125	-6.027358
BCR	-0.042582	6.9024077	-0.666346	0.5215368	0.78125	-6.027402
TRIM58	0.0432885	6.9432712	0.6663454	0.5215373	0.78125	-6.027402
ANO9	-0.041533	7.0296536	-0.666186	0.5216348	0.78125	-6.02751
HCFC2	0.0592576	7.0607741	0.666185	0.5216352	0.78125	-6.027511
TBCA	-0.053441	13.270738	-0.666046	0.5217201	0.7813	-6.027605
PTPN18	0.0515673	6.9350802	0.6659038	0.5218069	0.78135	-6.027702
PRELID3A	-0.04488	7.9496308	-0.66534	0.5221512	0.78163	-6.028083
LINC01949	-0.046033	6.8813925	-0.665333	0.5221558	0.78163	-6.028088
PRSS55	-0.063234	6.9626975	-0.665247	0.5222084	0.78163	-6.028147
TMOD2	0.0740852	8.1169631	0.6651201	0.5222858	0.78163	-6.028233
ASH2L	0.0630674	9.2239863	0.665032	0.5223396	0.78163	-6.028292
DHFR	-0.060126	7.6074927	-0.66497	0.5223772	0.78163	-6.028334
MAPK8IP2	0.0505523	6.9873663	0.6649344	0.5223993	0.78163	-6.028358
TRIM51	-0.051988	7.0231427	-0.664805	0.5224782	0.78163	-6.028446
AFTPH	0.0504223	8.1347151	0.6647998	0.5224816	0.78163	-6.028449
UMOD	0.0472823	6.8745776	0.6645516	0.5226333	0.78178	-6.028617
ZC3H12B	-0.046649	6.9016118	-0.664245	0.5228209	0.78179	-6.028825
C2orf48	0.0422419	6.8777627	0.6642249	0.5228331	0.78179	-6.028838
TMEM145	-0.057508	6.8452825	-0.664223	0.5228341	0.78179	-6.02884
ZNF519	0.0476436	7.4187673	0.6641937	0.5228522	0.78179	-6.028859

DYNLRB1	0.0494665	9.7030917	0.6640131	0.5229626	0.78184	-6.028982
LINC01023	0.0413077	6.871541	0.66396	0.5229951	0.78184	-6.029017
SRRM3	0.0460928	6.8686172	0.6638122	0.5230855	0.7819	-6.029117
LACC1	0.0636312	7.1694651	0.6636874	0.5231618	0.78193	-6.029202
NKD1	-0.039995	6.8073111	-0.663492	0.5232813	0.78195	-6.029334
ANG	-0.058298	7.4523753	-0.663489	0.523283	0.78195	-6.029336
AKT1S1	0.068401	7.3393211	0.6633423	0.523373	0.78201	-6.029435
WNT2B	0.0415372	6.8734181	0.6632389	0.5234362	0.78202	-6.029505
LOC1001307	0.0637162	6.9564738	0.6630836	0.5235313	0.78208	-6.02961
TRMT2B	0.0562871	7.3272841	0.6629257	0.5236279	0.78215	-6.029716
TMEM27	0.0448415	6.82148	0.6626814	0.5237775	0.78229	-6.029881
ITPK1	0.0535674	7.7710022	0.6625417	0.523863	0.78231	-6.029975
PRKX	0.0530518	7.6449595	0.6624711	0.5239063	0.78231	-6.030023
SOX3	0.0396028	6.7681096	0.6622932	0.5240152	0.78231	-6.030143
ATP6AP1L	0.0591439	7.1308013	0.662271	0.5240288	0.78231	-6.030158
CLUAP1	0.0398915	8.8204952	0.6622215	0.5240591	0.78231	-6.030191
PLEKHA1	-0.042822	6.8043924	-0.662061	0.5241575	0.78238	-6.0303
GUSBP11	-0.05429	7.0235967	-0.661914	0.5242473	0.78243	-6.030399
HARS2	0.0517531	9.832529	0.6612345	0.5246637	0.78297	-6.030857
RAB5C	0.0829613	8.572757	0.6609106	0.5248623	0.78319	-6.031075
OPHN1	0.0446728	6.8294309	0.6606251	0.5250373	0.78327	-6.031267
IKBKB	-0.041671	7.4790303	-0.660599	0.5250534	0.78327	-6.031285
SNRPB	0.0428273	12.308694	0.6605183	0.5251027	0.78327	-6.031339
CRISP2	-0.042455	6.9434963	-0.660475	0.5251292	0.78327	-6.031368
HIF1A	-0.070545	8.2875187	-0.660214	0.5252892	0.78329	-6.031543
REPS2	-0.045455	6.7651479	-0.660137	0.5253365	0.78329	-6.031595
ALKBH1	0.0456883	8.0848611	0.6601039	0.5253568	0.78329	-6.031618
VTRNA2-1	0.0695284	7.7752696	0.6600304	0.5254019	0.78329	-6.031667
LOC388242	0.0590194	6.9510157	0.6599199	0.5254697	0.78329	-6.031741
FSD1L	0.0457718	7.2670227	0.6596667	0.5256251	0.78329	-6.031912
ALDH5A1	-0.056082	9.8358971	-0.659658	0.5256303	0.78329	-6.031917
CTNNA2	-0.049154	6.906705	-0.659603	0.5256639	0.78329	-6.031954
PRSS8	-0.056501	7.0369675	-0.659586	0.5256743	0.78329	-6.031965
HEXA	-0.059191	6.8792681	-0.659574	0.5256822	0.78329	-6.031974
METTL3	-0.051182	10.191199	-0.659477	0.5257412	0.7833	-6.032039
NFIC	-0.040949	6.8327572	-0.658945	0.526068	0.78371	-6.032396
MOCS2	0.0834393	7.771903	0.6585865	0.526288	0.78395	-6.032637
HAR1B	-0.042716	6.828269	-0.658248	0.5264957	0.78408	-6.032864
RUBCN	0.0495634	7.4278555	0.6581888	0.5265322	0.78408	-6.032904
SLC29A4	-0.045797	6.8813925	-0.658183	0.5265355	0.78408	-6.032907
CEND1	0.0595598	7.9910268	0.6574727	0.5269721	0.78465	-6.033384
OR11A1	-0.04358	6.901121	-0.65714	0.5271765	0.78488	-6.033607
MRPL21	-0.050507	10.478388	-0.657005	0.5272595	0.78492	-6.033697
HMMR	-0.04906	9.7838542	-0.656818	0.5273747	0.78494	-6.033823
OR6M1	0.0386741	6.8826904	0.6567609	0.5274096	0.78494	-6.033861

GALE	-0.043741	7.7993834	-0.656674	0.5274629	0.78494	-6.033919
SNX17	0.0551092	10.080338	0.6566215	0.5274952	0.78494	-6.033954
DYNC1LI1	-0.042712	6.9907546	-0.656437	0.5276084	0.78494	-6.034077
ZRANB1	-0.04195	7.6050714	-0.656433	0.5276114	0.78494	-6.03408
PKD2	-0.048598	7.6689803	-0.656368	0.5276511	0.78494	-6.034124
S1PR3	-0.047093	6.8141357	-0.656155	0.5277819	0.78506	-6.034266
OR52N5	0.0539414	7.0424824	0.6560686	0.5278352	0.78506	-6.034324
PINX1	-0.05873	7.8086949	-0.65582	0.5279885	0.7852	-6.034491
IFFO1	-0.044901	7.4216029	-0.655477	0.5281992	0.78544	-6.034719
PSMD5-AS1	0.0603227	8.7125528	0.6553382	0.5282846	0.78547	-6.034812
UNC50	-0.050231	10.073657	-0.655206	0.5283662	0.78547	-6.034901
IL3RA	-0.042789	7.1190453	-0.655004	0.52849	0.78547	-6.035035
PSMD9	0.049724	8.0618165	0.6549492	0.528524	0.78547	-6.035072
TNFRSF10D	0.0588271	6.8627009	0.6547269	0.5286608	0.78547	-6.03522
CINP	-0.057582	7.6331412	-0.6546	0.5287389	0.78547	-6.035305
SIGLEC5	-0.051907	6.9524379	-0.654576	0.5287539	0.78547	-6.035321
RFX3	0.0385485	6.9758573	0.6545424	0.5287744	0.78547	-6.035344
STX7	-0.056323	8.0741272	-0.654533	0.5287804	0.78547	-6.03535
MUC1	-0.042908	6.8710402	-0.654488	0.528808	0.78547	-6.03538
CRYAA	0.0642237	6.9742138	0.6544431	0.5288355	0.78547	-6.03541
ULK3	-0.058127	7.1764824	-0.654343	0.5288972	0.78547	-6.035477
TMEM260	-0.05662	7.1692614	-0.654289	0.5289305	0.78547	-6.035513
DAB2IP	-0.047645	6.9529652	-0.65419	0.5289917	0.78547	-6.035579
EBAG9	0.0446283	8.3089311	0.6541252	0.5290313	0.78547	-6.035622
MGAT2	0.0518559	8.4810851	0.653833	0.5292113	0.7855	-6.035817
OPRL1	-0.052804	7.6725134	-0.653685	0.5293027	0.7855	-6.035916
DPRXP4	0.0482492	6.8528834	0.6536844	0.5293028	0.7855	-6.035916
NSD1	0.0468158	7.293149	0.653667	0.5293136	0.7855	-6.035928
EBP	-0.070215	9.9263861	-0.65366	0.5293178	0.7855	-6.035932
GALNT9	-0.039438	6.859044	-0.653386	0.5294869	0.78564	-6.036115
SLC31A2	-0.056683	7.2804448	-0.653262	0.5295629	0.78564	-6.036197
RANBP1	0.0540958	11.836537	0.6531704	0.5296195	0.78564	-6.036258
ALPPL2	0.0446459	6.8478877	0.653163	0.5296241	0.78564	-6.036263
ANKRD23	-0.060698	7.1996495	-0.652948	0.5297567	0.78574	-6.036407
AGTRAP	0.0488564	7.7672134	0.6528636	0.5298086	0.78574	-6.036463
TWIST1	0.052557	6.8524433	0.6527842	0.5298576	0.78574	-6.036516
VIPAS39	0.0476172	7.7657252	0.6525976	0.5299726	0.78583	-6.03664
YY1AP1	-0.04524	8.4581687	-0.652238	0.5301944	0.78603	-6.036879
SNORD113-	-0.076943	6.8712134	-0.652167	0.5302381	0.78603	-6.036926
ELMO2	0.0520103	8.1029712	0.6521174	0.5302687	0.78603	-6.036959
PCDHB14	-0.044712	6.8243119	-0.652026	0.530325	0.78604	-6.03702
PKNOX1	-0.041325	7.6078499	-0.651767	0.5304845	0.78619	-6.037192
ACOX2	0.0398959	6.7967074	0.6515519	0.5306175	0.78631	-6.037335
ZNF572	0.074611	7.1371929	0.6513064	0.530769	0.78645	-6.037498
ARL14EP	0.051913	9.3058863	0.6509907	0.5309638	0.78666	-6.037708

DNAJC15	-0.071532	9.0847151	-0.650835	0.5310597	0.78673	-6.037811
TEAD1	-0.041936	7.0426556	-0.650319	0.5313786	0.78705	-6.038154
TPTE2	-0.045025	6.7804814	-0.650242	0.5314258	0.78705	-6.038205
SLC46A3	0.04122	8.1024472	0.6502151	0.5314427	0.78705	-6.038223
MT1F	-0.057355	6.8058952	-0.650011	0.5315684	0.78716	-6.038358
ZNF479	-0.044013	6.8818167	-0.649879	0.5316504	0.78717	-6.038446
MCTP1	-0.055323	7.5068754	-0.649821	0.5316862	0.78717	-6.038484
GPRC5C	0.0442545	6.8468021	0.649638	0.5317991	0.78726	-6.038606
LOC400870	0.0573256	7.0940633	0.649212	0.5320623	0.78757	-6.038888
SPDL1	0.0518427	8.5214356	0.6490587	0.5321571	0.78761	-6.038989
GHSR	-0.040298	6.81343	-0.64899	0.5321994	0.78761	-6.039035
TMTC1	0.0447038	6.8439014	0.6486593	0.5324039	0.78784	-6.039254
C15orf40	-0.051666	7.5720799	-0.648333	0.5326057	0.78806	-6.03947
ZNF629	-0.045226	6.7214556	-0.648106	0.532746	0.78813	-6.03962
CASD1	0.0817822	7.5343846	0.647992	0.5328165	0.78813	-6.039695
BRINP2	-0.04114	7.054567	-0.647987	0.5328199	0.78813	-6.039699
IRAK4	-0.058351	7.5403118	-0.647698	0.5329983	0.78817	-6.03989
SLC35A2	0.0451412	7.5522002	0.647671	0.5330151	0.78817	-6.039908
BRD2	-0.089622	11.257007	-0.647609	0.5330533	0.78817	-6.039948
ZNF414	0.061924	7.2441495	0.6475934	0.5330631	0.78817	-6.039959
ENSA	-0.049778	8.6850208	-0.647269	0.5332635	0.78839	-6.040173
LINC00544	0.0578003	7.0088209	0.6468067	0.5335499	0.78873	-6.040479
GATS	-0.042202	7.0024575	-0.646312	0.5338563	0.78897	-6.040805
LIN9	0.0584141	7.9176938	0.6463001	0.5338635	0.78897	-6.040813
ZNF432	-0.070222	7.1003862	-0.646287	0.5338716	0.78897	-6.040822
PLA2G15	0.0669427	7.3346094	0.6459844	0.5340591	0.78909	-6.041021
C1orf131	-0.057773	10.158878	-0.645981	0.5340609	0.78909	-6.041023
TEX10	0.0471731	9.6606974	0.6458955	0.5341141	0.78909	-6.04108
CCDC115	-0.051391	9.473479	-0.645543	0.5343325	0.78933	-6.041312
TNK1	0.0793978	6.9393952	0.6454066	0.534417	0.78938	-6.041402
ANKRD13D	-0.042135	6.8422049	-0.645019	0.5346569	0.78965	-6.041657
DYNLT3	0.0777929	8.5724612	0.6448786	0.5347442	0.78965	-6.04175
ALG6	0.0442035	8.9139907	0.6446741	0.5348709	0.78965	-6.041884
NUDT21	0.0656089	8.6785783	0.6445727	0.5349338	0.78965	-6.041951
CACNG4	-0.050167	6.877285	-0.64455	0.5349478	0.78965	-6.041966
WRN	0.0425724	7.8362824	0.6445301	0.5349602	0.78965	-6.041979
KCTD15	-0.041423	7.9166197	-0.644491	0.5349846	0.78965	-6.042005
ANKRD36	-0.043664	7.4210161	-0.644411	0.535034	0.78965	-6.042058
CSNK1G2	-0.048562	11.798986	-0.64416	0.5351896	0.78974	-6.042223
PCOLCE	0.0440044	6.9497519	0.6441303	0.5352081	0.78974	-6.042242
C8G	-0.048022	6.8069606	-0.643804	0.5354103	0.78993	-6.042457
ADD3	-0.055704	8.9398685	-0.643742	0.5354486	0.78993	-6.042497
KIAA0930	0.0424485	6.9572115	0.6436593	0.5355002	0.78993	-6.042552
ZNF438	-0.046138	7.4315886	-0.643584	0.5355472	0.78993	-6.042602
B4GALT7	-0.071667	9.2960079	-0.643417	0.5356506	0.78999	-6.042711

NGRN	0.044276	9.7684251	0.6432348	0.5357636	0.78999	-6.042831
MSH3	0.051617	11.04003	0.6432242	0.5357701	0.78999	-6.042838
CYB5R4	-0.068539	9.1463241	-0.643167	0.5358054	0.78999	-6.042875
BEND7	-0.042186	6.9747334	-0.642798	0.5360345	0.79024	-6.043118
UCP3	-0.041876	6.8611886	-0.642653	0.5361249	0.7903	-6.043213
DNAJC18	-0.060466	7.7205112	-0.642402	0.5362802	0.79045	-6.043377
RPGR	0.0484717	7.4099478	0.6422213	0.5363927	0.79053	-6.043496
GSTM2	-0.038436	7.059454	-0.641868	0.536612	0.79067	-6.043728
RCBTB2	-0.051733	7.2259551	-0.641682	0.5367274	0.79067	-6.04385
TSSC1	0.0412758	9.7916512	0.6416356	0.5367564	0.79067	-6.04388
GOLGA8G	-0.050174	6.9006758	-0.641543	0.5368141	0.79067	-6.043941
GSPT2	0.0600843	9.3487262	0.6415239	0.5368258	0.79067	-6.043953
FUCA2	0.0435244	6.8562363	0.6412942	0.5369685	0.79067	-6.044104
LSM11	0.0444784	6.9714407	0.6412496	0.5369962	0.79067	-6.044133
KIF25-AS1	-0.076478	7.0181219	-0.64121	0.5370211	0.79067	-6.044159
ULBP1	-0.046838	6.774764	-0.641047	0.5371223	0.79067	-6.044266
LSM14A	0.0768972	10.777803	0.641013	0.5371432	0.79067	-6.044288
RXRG	-0.054319	6.9276861	-0.640979	0.5371643	0.79067	-6.04431
LOC1002878	-0.041821	6.8240456	-0.640945	0.5371854	0.79067	-6.044332
SLFN11	0.0396516	9.8413238	0.6409379	0.5371899	0.79067	-6.044337
KBTBD7	-0.044793	7.0784841	-0.640635	0.5373781	0.79084	-6.044535
IQSEC2	0.0545296	6.9462405	0.6405758	0.5374149	0.79084	-6.044574
FANCE	0.0663021	9.1595923	0.6404883	0.5374693	0.79084	-6.044631
OTUD6B-AS	0.0590657	7.2966074	0.6401381	0.5376871	0.79107	-6.044861
C17orf78	-0.054847	7.0368954	-0.639915	0.5378257	0.79107	-6.045006
WDR3	-0.053225	7.1375008	-0.63982	0.537885	0.79107	-6.045069
ZNF93	-0.046341	7.3930772	-0.639676	0.5379746	0.79107	-6.045163
JPH2	0.0430407	7.1270681	0.6396478	0.537992	0.79107	-6.045181
PUDP	-0.060738	8.6119939	-0.639626	0.5380056	0.79107	-6.045195
SUGP2	-0.057879	9.3454352	-0.639625	0.5380064	0.79107	-6.045196
PHRF1	0.0548485	8.6155732	0.6393485	0.5381782	0.79125	-6.045377
SLC12A4	-0.056459	6.9601733	-0.639242	0.5382442	0.79126	-6.045446
LSM12	0.0577141	8.9391156	0.6387031	0.5385798	0.79152	-6.045798
ADRB1	0.0410508	6.8002576	0.638696	0.5385843	0.79152	-6.045803
CPLX2	0.0477606	7.0714332	0.6386744	0.5385977	0.79152	-6.045817
ZFYVE1	0.0407672	7.138851	0.6385314	0.5386867	0.79152	-6.04591
USP31	0.0545039	6.8005395	0.6385225	0.5386922	0.79152	-6.045916
CSAD	-0.042442	7.3538729	-0.638199	0.5388936	0.79174	-6.046127
ABCG4	0.046288	6.9357159	0.6378204	0.5391294	0.79191	-6.046374
GDPD3	-0.05967	7.2071112	-0.637808	0.5391373	0.79191	-6.046382
TDRD10	-0.045882	6.8417328	-0.637575	0.5392825	0.79191	-6.046534
LIMA1	-0.063932	7.1379298	-0.637288	0.539461	0.79191	-6.046721
CAPN3	-0.041313	6.819414	-0.637259	0.5394792	0.79191	-6.04674
GREB1	-0.065531	7.0131843	-0.637198	0.5395168	0.79191	-6.046779
RPUSD1	0.0918839	8.7284556	0.6371805	0.539528	0.79191	-6.046791

CEP131	-0.070758	7.7189532	-0.637095	0.5395814	0.79191	-6.046847
HPS5	-0.038911	8.5172945	-0.637026	0.5396244	0.79191	-6.046892
CNOT7	0.0453341	8.6200638	0.6369978	0.5396418	0.79191	-6.04691
KIAA1161	0.0712369	7.0925846	0.6369749	0.5396561	0.79191	-6.046925
ZC3H13	-0.049394	7.0518207	-0.636973	0.5396573	0.79191	-6.046926
TTLL3	0.0409939	7.4431668	0.6367462	0.5397986	0.79203	-6.047074
LINC01011	-0.044027	6.9227789	-0.63641	0.540008	0.79226	-6.047292
B3GNT5	-0.045174	6.7417208	-0.636039	0.5402394	0.79252	-6.047533
DDX60	-0.039878	6.8114055	-0.635861	0.5403502	0.7926	-6.047649
SLAIN2	0.052846	7.3295962	0.6356883	0.5404582	0.79268	-6.047762
APOO	0.0610349	10.018488	0.6354208	0.540625	0.79285	-6.047935
ADORA1	-0.05756	7.1071909	-0.635093	0.5408292	0.79307	-6.048148
RPS27A	-0.04344	13.863906	-0.63488	0.5409623	0.79318	-6.048286
PRKG1	0.0592864	6.9978563	0.6347651	0.5410341	0.79321	-6.048361
RASSF4	0.046032	7.6613366	0.6345774	0.5411513	0.7933	-6.048483
MBD3L1	0.0484511	6.8458158	0.6342631	0.5413475	0.79351	-6.048687
LOC730020	0.0466645	7.1754512	0.6340644	0.5414715	0.79361	-6.048816
CCDC146	0.0550335	6.9778259	0.6335272	0.541807	0.79402	-6.049164
PDYN	-0.0515	6.9076515	-0.633311	0.541942	0.79405	-6.049304
GNAQ	0.0588111	6.70573	0.6332934	0.541953	0.79405	-6.049315
SPTBN4	0.058837	7.0261847	0.6332405	0.5419861	0.79405	-6.049349
AKAP10	0.0500056	7.5455123	0.6330641	0.5420963	0.79407	-6.049464
ETV5	0.038731	7.1380279	0.6330226	0.5421222	0.79407	-6.049491
HARS	0.0443632	10.445991	0.6329523	0.5421662	0.79407	-6.049536
PRDM9	0.0424879	7.0135814	0.632836	0.5422388	0.7941	-6.049611
UQCRH	-0.051064	11.97644	-0.632099	0.5426997	0.79469	-6.050088
WWP2	-0.044235	6.9949506	-0.631723	0.5429344	0.79496	-6.050331
DPY30	0.0494409	9.375197	0.6311698	0.5432805	0.79538	-6.050688
MATR3	0.0422856	9.375103	0.631037	0.5433637	0.79543	-6.050774
GOLGA2P6	0.0593256	6.9153971	0.6309192	0.5434374	0.79543	-6.05085
CXCR2	-0.044666	7.0036166	-0.630858	0.5434758	0.79543	-6.05089
WDR44	0.0408273	7.1863678	0.6306727	0.5435916	0.79552	-6.051009
FAM46D	0.0416972	6.8649737	0.6303229	0.5438105	0.79575	-6.051235
ANKRD28	0.0474806	7.9869223	0.6302434	0.5438603	0.79575	-6.051286
TRPM4	-0.054933	6.8814511	-0.629844	0.5441101	0.79604	-6.051543
ZSCAN31	-0.042428	6.8051696	-0.629727	0.5441838	0.79607	-6.051619
MIR25	-0.050426	6.9600901	-0.629436	0.5443655	0.79621	-6.051806
MED18	-0.060585	6.8943844	-0.629313	0.5444429	0.79621	-6.051886
PKLR	-0.049374	6.8841657	-0.629308	0.544446	0.79621	-6.051889
FAN1	-0.046418	7.360697	-0.629061	0.544601	0.79632	-6.052048
RPH3AL	0.0390279	6.9492266	0.6290157	0.5446291	0.79632	-6.052077
MS4A14	0.0388108	6.7491264	0.627805	0.5453879	0.79719	-6.052856
MYL4	0.0424885	6.7797058	0.6277954	0.5453939	0.79719	-6.052862
PCED1B	-0.064828	8.7725543	-0.627614	0.5455076	0.79719	-6.052978
HSPA2	-0.041889	6.9325104	-0.627505	0.5455757	0.79719	-6.053048

E2F5	-0.064413	10.939183	-0.62749	0.5455855	0.79719	-6.053058
SH3RF3	-0.043821	6.8732008	-0.627384	0.5456522	0.79719	-6.053126
PRKCQ	0.0574653	6.8573343	0.6273246	0.5456892	0.79719	-6.053164
DUSP13	-0.046155	7.0105348	-0.627287	0.5457124	0.79719	-6.053188
C9orf106	0.0437488	6.9236831	0.6272825	0.5457155	0.79719	-6.053191
BZW1	-0.043813	7.2982717	-0.627107	0.5458255	0.79727	-6.053304
ZNF37A	-0.047682	7.2472433	-0.626935	0.5459333	0.79732	-6.053414
SCLT1	-0.072772	7.2489783	-0.626877	0.5459702	0.79732	-6.053452
ZNF830	-0.047532	8.4234017	-0.626601	0.5461429	0.79733	-6.053628
TIMM17B	-0.049365	8.9525645	-0.626594	0.5461473	0.79733	-6.053633
MRS2P2	-0.050519	6.9598058	-0.626566	0.5461651	0.79733	-6.053651
GTF2IRD2B	-0.042089	8.1066853	-0.626517	0.5461961	0.79733	-6.053683
TRIM36	0.040109	6.8962514	0.6262577	0.5463585	0.79749	-6.053849
SLC40A1	-0.03872	6.7631651	-0.626058	0.5464839	0.79759	-6.053977
LINC01549	0.0540682	7.0224547	0.6257986	0.5466467	0.79768	-6.054143
ARHGAP24	-0.039414	7.4146496	-0.625794	0.5466496	0.79768	-6.054146
LIG4	0.0503673	7.2053685	0.6255711	0.5467896	0.79768	-6.054289
FAM8A1	-0.054808	7.5016484	-0.625512	0.5468269	0.79768	-6.054327
TNFSF9	-0.07523	8.5705568	-0.625445	0.5468686	0.79768	-6.054369
ZNF628	0.0475297	7.0336489	0.6253866	0.5469054	0.79768	-6.054407
KIAA0040	-0.040259	7.5775843	-0.625356	0.5469246	0.79768	-6.054426
C9orf66	0.0466617	6.8679949	0.6250808	0.5470975	0.79785	-6.054602
PLSCR4	0.0431363	6.9925244	0.6247301	0.5473178	0.79804	-6.054827
CNNM4	0.0785326	7.0486287	0.6246952	0.5473397	0.79804	-6.054849
SNORA17A	0.0457407	7.1629335	0.6244763	0.5474773	0.79817	-6.054989
WRAP53	-0.077034	8.261977	-0.624115	0.5477043	0.79842	-6.05522
B3GNT4	0.0585216	6.8514241	0.6237127	0.5479572	0.7986	-6.055477
ANKAR	-0.047634	6.7430292	-0.623682	0.5479763	0.7986	-6.055496
FAM20C	-0.037867	6.7706128	-0.623658	0.5479918	0.7986	-6.055512
ZNF470	-0.045333	6.8897682	-0.623277	0.5482311	0.79875	-6.055755
GPR35	-0.041839	6.803112	-0.62306	0.5483676	0.79875	-6.055894
PCDH20	-0.046651	6.7860595	-0.622987	0.5484135	0.79875	-6.05594
POLG2	-0.057445	8.5608345	-0.622984	0.5484156	0.79875	-6.055942
BTNL2	-0.040104	6.8348432	-0.622923	0.5484536	0.79875	-6.055981
PLN	0.0394204	6.9971536	0.62282	0.5485187	0.79875	-6.056047
RAP1GAP	-0.065202	7.059368	-0.622816	0.5485211	0.79875	-6.056049
MORC4	0.0408345	6.8335788	0.6227788	0.5485446	0.79875	-6.056073
ZNF320	-0.043919	8.4913119	-0.622702	0.5485931	0.79875	-6.056122
DNAJC5	0.0515578	7.6088337	0.6223518	0.5488132	0.799	-6.056345
ZCCHC9	0.0403811	9.9914114	0.6219083	0.5490923	0.79919	-6.056628
LINC00667	-0.049445	8.0745721	-0.62178	0.5491733	0.79919	-6.05671
KHDC1	-0.044838	7.5685272	-0.621777	0.549175	0.79919	-6.056712
SLC22A18AS	-0.042928	6.9362749	-0.621776	0.5491756	0.79919	-6.056712
ZNF490	-0.043953	7.3988306	-0.621614	0.5492779	0.79919	-6.056816
MPND	0.0398085	7.0926292	0.6215676	0.5493068	0.79919	-6.056845

NADSYN1	0.0488601	8.4097815	0.621525	0.5493336	0.79919	-6.056872
LOC729254	0.0429725	6.8227904	0.621413	0.5494042	0.79922	-6.056943
PARD6A	-0.045986	8.416815	-0.621306	0.5494715	0.79924	-6.057011
SDE2	0.0605508	8.7368316	0.6211224	0.5495872	0.79926	-6.057128
CFAP52	0.048206	6.8998277	0.6210163	0.5496539	0.79926	-6.057196
ANKRD36B	-0.046565	7.2795436	-0.620883	0.5497376	0.79926	-6.05728
NAA38	0.0630974	10.128265	0.6207663	0.5498115	0.79926	-6.057355
RAB11FIP1	-0.049655	8.45398	-0.620744	0.5498255	0.79926	-6.057369
TIMM9	0.0648234	9.7051168	0.6207068	0.5498489	0.79926	-6.057393
PLA2G6	0.0400478	6.9841949	0.6205588	0.5499422	0.79926	-6.057487
MYOZ1	0.0374574	6.9302678	0.6205477	0.5499492	0.79926	-6.057494
TEX26	-0.049308	6.9096846	-0.620434	0.5500205	0.79926	-6.057566
PCDHA11	0.0441437	6.9339585	0.6203985	0.5500431	0.79926	-6.057589
TRAT1	0.0483382	6.7973816	0.6203072	0.5501007	0.79926	-6.057647
AK5	-0.049588	6.9364766	-0.620111	0.5502243	0.79926	-6.057771
IFI27L1	-0.049821	8.3598269	-0.620106	0.5502274	0.79926	-6.057774
ESCO2	-0.042186	6.8342417	-0.619999	0.5502948	0.79926	-6.057842
CDK20	0.039201	6.8155239	0.6198917	0.5503625	0.79926	-6.05791
C7orf26	0.0573596	9.0829008	0.6198839	0.5503675	0.79926	-6.057915
HPF1	0.0522303	8.1813509	0.619401	0.5506719	0.79942	-6.058222
HDAC11	0.0657682	6.9434467	0.6193996	0.5506728	0.79942	-6.058223
UPK1A	-0.039831	6.8030372	-0.619345	0.5507074	0.79942	-6.058258
HMGN1	0.0463742	12.620947	0.6192461	0.5507695	0.79942	-6.05832
TMEM106B	0.04543	6.6884931	0.6192153	0.550789	0.79942	-6.05834
KCNK17	0.0533056	6.9258626	0.6191615	0.5508229	0.79942	-6.058374
TMX1	0.04808	8.8712449	0.6191086	0.5508563	0.79942	-6.058408
DHFR2	0.0438866	7.5093943	0.618894	0.5509916	0.79953	-6.058544
COL20A1	0.0483519	7.0842708	0.6186822	0.5511252	0.79959	-6.058678
TSSC2	-0.037629	6.7735216	-0.618615	0.5511677	0.79959	-6.058721
ZFYVE27	0.0452498	7.0074293	0.6185773	0.5511913	0.79959	-6.058744
FETUB	-0.038571	6.906765	-0.617862	0.5516429	0.80008	-6.059198
PCDHGA5	0.0407951	6.8132253	0.617812	0.5516742	0.80008	-6.059229
CMA1	0.0458786	6.9544359	0.6177575	0.5517087	0.80008	-6.059264
SMARCD1	0.0541525	8.9867703	0.6176868	0.5517533	0.80008	-6.059308
DOCK6	0.0651274	7.2203336	0.617558	0.5518346	0.8001	-6.05939
ZNF227	0.0449311	6.9317644	0.6174902	0.5518774	0.8001	-6.059433
MCOLN3	0.0386599	6.8351191	0.6172906	0.5520034	0.80021	-6.059559
RBM43	0.0414152	6.806311	0.6171408	0.552098	0.80023	-6.059654
PTP4A3	-0.040627	6.8881204	-0.617026	0.5521703	0.80023	-6.059726
TIMP2	0.0432336	6.934983	0.6169782	0.5522007	0.80023	-6.059757
SNORA11B	0.0443836	7.1824082	0.6168223	0.5522991	0.80023	-6.059855
TNFAIP2	-0.036665	6.696503	-0.616782	0.5523247	0.80023	-6.059881
RET	-0.042487	6.8468593	-0.616742	0.5523497	0.80023	-6.059906
MRPS14	-0.059256	7.7073922	-0.616511	0.552496	0.80029	-6.060052
2-Sep	-0.038272	9.4327648	-0.61651	0.5524966	0.80029	-6.060053

ATRN	0.0378273	6.850192	0.6160376	0.5527948	0.80064	-6.060351
MIR645	-0.049312	6.9653918	-0.615517	0.5531236	0.80104	-6.060679
FAM174B	0.0425003	6.7064548	0.6153308	0.5532415	0.8011	-6.060797
CATSPER2P1	-0.051353	7.5776857	-0.615225	0.5533086	0.8011	-6.060864
PPP4R1	0.037595	9.3850598	0.6151154	0.5533777	0.8011	-6.060933
AHNAK2	0.0438557	6.8746376	0.6151045	0.5533847	0.8011	-6.06094
ASB13	0.0499878	8.4375653	0.6149954	0.5534536	0.80112	-6.061009
BAG3	0.0381576	6.8927306	0.6142384	0.5539324	0.80173	-6.061486
KCNK10	0.0450627	6.8768918	0.6138903	0.5541526	0.80192	-6.061705
ATP11A	0.0689374	7.0612047	0.6138532	0.5541761	0.80192	-6.061728
TCEAL3	-0.037395	6.7211177	-0.613764	0.5542324	0.80193	-6.061784
FITM1	0.0375573	6.8887698	0.61327	0.5545453	0.80226	-6.062095
TSTD1	-0.044965	7.6907403	-0.613184	0.5545996	0.80226	-6.062149
SENP1	0.042383	7.02574	0.613137	0.5546294	0.80226	-6.062179
MIR125B2	-0.044684	7.3491282	-0.612158	0.5552496	0.80286	-6.062794
UBA6	-0.069278	9.1112378	-0.612156	0.5552509	0.80286	-6.062795
ST3GAL3	-0.04437	7.2859302	-0.612138	0.5552621	0.80286	-6.062806
PERP	-0.03926	6.8641162	-0.612135	0.555264	0.80286	-6.062808
PPIP5K1	0.0378172	8.4431113	0.6119369	0.5553895	0.80296	-6.062933
BAZ2B	0.0439162	7.9220421	0.6117988	0.555477	0.80301	-6.063019
CD99	0.0855721	8.4788561	0.6116186	0.5555912	0.80308	-6.063132
GAS2	0.0414592	6.9070155	0.6114513	0.5556973	0.80308	-6.063237
PRAC2	0.0689064	6.9700029	0.6114039	0.5557273	0.80308	-6.063267
PRR14L	0.0503167	8.4465826	0.6113743	0.555746	0.80308	-6.063286
CCL28	-0.036369	6.8692314	-0.610907	0.5560426	0.80339	-6.063579
IGLL1	-0.041882	8.8155356	-0.610861	0.5560717	0.80339	-6.063608
MRC2	-0.042454	6.8062417	-0.610489	0.556307	0.80365	-6.06384
PLK2	-0.077444	6.8826404	-0.610233	0.5564695	0.8038	-6.064
RGS3	0.0524803	6.9924332	0.6101542	0.5565197	0.8038	-6.06405
PAK1	0.0573111	8.5317318	0.6100481	0.5565869	0.80382	-6.064116
PXK	-0.049474	8.0477749	-0.609949	0.5566496	0.80382	-6.064178
DHDH	0.0427512	6.7595644	0.6098681	0.5567012	0.80382	-6.064229
IFITM4P	0.0576681	6.9537751	0.6096737	0.5568245	0.80392	-6.064351
DPP10	-0.051253	6.8634802	-0.609468	0.5569551	0.80397	-6.064479
OLIG2	0.0402534	6.7364634	0.6093738	0.5570148	0.80397	-6.064538
LINC00898	-0.043321	6.7735279	-0.609335	0.5570397	0.80397	-6.064563
DSC2	0.038738	6.8463001	0.6092746	0.5570778	0.80397	-6.0646
MED9	0.0731866	8.0104091	0.608594	0.5575098	0.80451	-6.065025
GABRB3	-0.043724	7.20578	-0.608379	0.5576465	0.80453	-6.06516
WDR97	-0.046202	7.0743258	-0.608206	0.5577564	0.80453	-6.065268
CTNNBL1	0.0607105	9.9033506	0.6080505	0.557855	0.80453	-6.065365
EPHA3	0.0369732	6.8403998	0.6079271	0.5579334	0.80453	-6.065442
GCLC	-0.052811	7.4995314	-0.607818	0.5580026	0.80453	-6.06551
TMEM86A	-0.050531	6.8967032	-0.607806	0.5580102	0.80453	-6.065517
STOX1	-0.042335	6.9011048	-0.607643	0.5581137	0.80453	-6.065619

ZNF212	-0.04852	8.4691169	-0.607568	0.5581615	0.80453	-6.065665
MRPL57	-0.056439	7.4425831	-0.607486	0.5582139	0.80453	-6.065717
DISC1	-0.041326	6.7646528	-0.607483	0.5582157	0.80453	-6.065719
SMCO4	-0.063299	9.4760938	-0.607348	0.5583015	0.80453	-6.065803
GLTPD2	-0.03663	6.8001902	-0.607338	0.5583075	0.80453	-6.065809
TMEM17	-0.050031	8.5493232	-0.607293	0.558336	0.80453	-6.065837
TSTA3	0.0760293	8.4495539	0.6072802	0.5583444	0.80453	-6.065845
NCF1B	-0.052872	7.724854	-0.607276	0.5583474	0.80453	-6.065848
RAD54L2	-0.097435	8.7884153	-0.606991	0.5585281	0.80461	-6.066025
IDH1	-0.051381	9.4362772	-0.60694	0.5585605	0.80461	-6.066057
RPS19BP1	-0.044951	9.7637716	-0.606924	0.5585708	0.80461	-6.066067
GPR137C	0.0659705	7.0300723	0.6067362	0.5586902	0.80471	-6.066184
CERCAM	0.0461358	6.9434219	0.6063201	0.5589548	0.80501	-6.066443
PEX5L	0.0433501	6.8965252	0.6059962	0.5591608	0.80506	-6.066644
TACR2	0.0437271	6.9423067	0.6059784	0.559172	0.80506	-6.066655
GPR63	-0.045096	6.7296161	-0.605968	0.5591788	0.80506	-6.066662
RNF212	0.0379063	6.9222498	0.6059149	0.5592125	0.80506	-6.066695
TIAF1	0.0396383	8.0563206	0.6057707	0.5593042	0.80511	-6.066785
SRRT	-0.039587	9.4154719	-0.605547	0.5594468	0.80524	-6.066924
PPIL1	0.0680037	10.115596	0.6052628	0.5596273	0.80542	-6.0671
CHADL	-0.041556	6.8653882	-0.605138	0.5597068	0.80545	-6.067178
RBBP9	-0.051203	7.7855862	-0.604819	0.5599098	0.80567	-6.067376
LOC148709	0.0501266	7.0055892	0.6046854	0.5599948	0.80571	-6.067459
TTC26	-0.052859	7.4938031	-0.60437	0.5601955	0.80592	-6.067654
LMO4	-0.045109	10.013791	-0.603994	0.5604349	0.8061	-6.067888
TBC1D3C	-0.048815	6.8821107	-0.603975	0.5604472	0.8061	-6.0679
HORMAD1	0.0392599	6.812792	0.6039088	0.5604893	0.8061	-6.067941
KMO	-0.054568	7.5888338	-0.603787	0.560567	0.80613	-6.068016
TFB1M	-0.067357	10.039203	-0.603705	0.5606189	0.80613	-6.068067
FRAT1	0.0363732	6.8587272	0.6035957	0.5606887	0.80615	-6.068135
TMX3	0.0642164	8.3753055	0.6030333	0.561047	0.80659	-6.068483
DCAF12L2	0.0390845	6.8185492	0.6026814	0.5612713	0.80683	-6.068701
CENPBD1P1	0.0524419	7.2328422	0.6024672	0.5614079	0.80689	-6.068833
AK9	0.0371766	6.9695963	0.6022358	0.5615554	0.80689	-6.068977
CRYBG1	0.0398464	7.5997888	0.6022071	0.5615737	0.80689	-6.068994
DESI1	0.0461513	10.230911	0.6022006	0.5615778	0.80689	-6.068998
NKIRAS2	0.0511613	7.7369107	0.6021628	0.5616019	0.80689	-6.069022
PLS1	0.0491227	8.3277166	0.6021016	0.5616409	0.80689	-6.069059
SLC16A7	0.042474	6.9908761	0.6015533	0.5619907	0.80731	-6.069398
APPL1	-0.064491	8.5539443	-0.601346	0.562123	0.80735	-6.069527
LGR4	-0.036441	6.7707993	-0.601338	0.5621281	0.80735	-6.069531
ITGA7	0.0728715	7.022392	0.6011827	0.5622271	0.80741	-6.069627
TOP3A	0.0747699	8.3691181	0.6009182	0.5623958	0.80757	-6.069791
ACTR1B	-0.076476	9.1276457	-0.600758	0.5624983	0.80764	-6.06989
LRRK2	0.0446445	6.7814389	0.6004891	0.5626697	0.80781	-6.070055

FMO4	-0.045105	6.9349972	-0.600303	0.5627883	0.80786	-6.07017
C1orf64	0.0523639	6.9356905	0.6002624	0.5628144	0.80786	-6.070195
SLITRK4	-0.04207	6.7929889	-0.599764	0.5631328	0.80816	-6.070502
RGS8	0.0448706	6.8505875	0.5997473	0.5631433	0.80816	-6.070513
DPP7	-0.047435	8.678966	-0.59967	0.5631927	0.80816	-6.07056
HSPB1	-0.036391	6.9176186	-0.59938	0.5633778	0.80835	-6.070739
DUOX1	0.0607899	6.9355892	0.5991668	0.563514	0.80846	-6.07087
OR10H5	-0.049854	6.8611933	-0.598881	0.5636965	0.80852	-6.071046
MIR496	0.0391157	6.8203914	0.5988505	0.5637161	0.80852	-6.071065
CLDN12	-0.059407	7.5652222	-0.598846	0.5637193	0.80852	-6.071068
ABCF3	0.0611178	7.320211	0.5987373	0.5637885	0.80854	-6.071134
GLI4	0.0514663	7.1313821	0.5986224	0.5638619	0.80856	-6.071205
VAMP1	0.0448666	8.3715095	0.5982585	0.5640945	0.80882	-6.071429
DCLRE1B	-0.051971	7.131304	-0.598134	0.5641738	0.80885	-6.071505
SCARNA27	0.1014222	7.1957018	0.5978012	0.5643869	0.80905	-6.07171
TOMM34	-0.09663	10.995221	-0.597748	0.5644211	0.80905	-6.071743
RPPH1	-0.049602	8.2080294	-0.597544	0.5645515	0.80908	-6.071868
ZSWIM1	-0.059973	8.823318	-0.59754	0.5645541	0.80908	-6.07187
OXNAD1	-0.040868	7.3671165	-0.597331	0.5646872	0.80918	-6.071998
PPIEL	0.0441416	6.9312438	0.5972543	0.5647366	0.80918	-6.072045
LOC441268	-0.037802	6.9573525	-0.596847	0.5649969	0.80944	-6.072295
CEPT1	0.0424626	9.1349536	0.5967008	0.5650906	0.80944	-6.072385
IDO2	-0.061767	7.2653849	-0.596686	0.5651	0.80944	-6.072394
SNORD55	-0.044951	7.512133	-0.596556	0.5651831	0.80944	-6.072474
ALAD	0.0558423	7.6946211	0.596535	0.5651968	0.80944	-6.072487
NAP1L3	-0.03672	6.8719612	-0.596442	0.5652565	0.80945	-6.072544
CD47	-0.064962	8.4910209	-0.596152	0.5654416	0.80958	-6.072721
ADRB2	-0.0401	6.880202	-0.596122	0.5654613	0.80958	-6.07274
INPP4B	-0.046126	7.5439922	-0.595907	0.5655986	0.8097	-6.072871
LEF1	-0.04089	6.7960591	-0.595777	0.5656817	0.8097	-6.072951
TNP1	0.0432244	6.8743544	0.5957321	0.5657106	0.8097	-6.072979
SLC12A2	-0.04765	7.6768577	-0.595606	0.5657913	0.80974	-6.073056
AGXT	0.0429444	6.9237778	0.5954732	0.5658764	0.80974	-6.073137
RAB9B	-0.037123	6.8328752	-0.595432	0.565903	0.80974	-6.073162
CPT1B	-0.04276	7.1864702	-0.59527	0.5660063	0.80981	-6.073261
LRRC40	0.0496641	7.5178741	0.5951179	0.5661039	0.80987	-6.073354
SLC25A6	0.0749068	12.245755	0.594552	0.5664665	0.81016	-6.0737
TRAF3IP1	-0.038308	6.8992697	-0.594445	0.5665352	0.81016	-6.073766
CMC1	0.0543969	9.2235114	0.5943392	0.5666029	0.81016	-6.07383
ANKRD18DP	0.0444423	6.8879902	0.5943111	0.5666209	0.81016	-6.073848
EHMT1	0.0457215	7.0005864	0.5942316	0.5666718	0.81016	-6.073896
ALDH1A1	0.0392508	6.9052131	0.5941791	0.5667055	0.81016	-6.073928
SEL1L3	0.0699044	10.814565	0.5941571	0.5667195	0.81016	-6.073942
FLJ44674	-0.055458	6.9850373	-0.594099	0.5667569	0.81016	-6.073977
CHRNA1	0.0685311	6.9029524	0.5939365	0.5668609	0.81016	-6.074076

SSB	0.0508713	9.1798297	0.593891	0.5668901	0.81016	-6.074104
CDY2B	-0.057049	6.8556783	-0.593692	0.5670174	0.81016	-6.074225
RNY1	0.1118075	8.5385847	0.5936844	0.5670226	0.81016	-6.07423
FAM222A	0.0478083	6.9587099	0.593676	0.5670279	0.81016	-6.074235
PIM1	0.0498144	10.281245	0.5930988	0.567398	0.81061	-6.074587
TEX2	-0.04344	8.8891952	-0.59293	0.5675065	0.81068	-6.074691
SNORA68	-0.05427	7.2215279	-0.592351	0.5678778	0.81111	-6.075043
SNORA84	-0.050968	7.3596095	-0.59229	0.5679167	0.81111	-6.07508
EVX1	0.0527749	6.9348959	0.592014	0.5680939	0.81128	-6.075248
PATJ	0.0498735	6.8727625	0.5918664	0.5681886	0.81134	-6.075338
NTSR1	-0.039333	6.8119281	-0.591279	0.5685657	0.8116	-6.075696
ZNF573	-0.038019	7.6620521	-0.591188	0.5686243	0.8116	-6.075751
SNX32	-0.037136	6.9359164	-0.59116	0.5686423	0.8116	-6.075768
HMP19	-0.054261	7.148655	-0.591054	0.5687099	0.8116	-6.075832
OSTF1	-0.045469	9.7064593	-0.591032	0.5687246	0.8116	-6.075846
APOPT1	0.03948	8.3718072	0.5908383	0.5688487	0.8116	-6.075963
C11orf49	-0.042891	7.2888177	-0.590737	0.5689139	0.8116	-6.076025
ADARB1	-0.045327	6.9714918	-0.590669	0.5689576	0.8116	-6.076067
CDC42EP4	0.0573146	7.4133073	0.5906153	0.5689919	0.8116	-6.076099
RNF144A	0.0437729	6.852755	0.5905695	0.5690213	0.8116	-6.076127
TOR1AIP2	-0.037666	7.1792629	-0.590457	0.5690936	0.8116	-6.076195
KLF15	-0.052133	7.8051347	-0.590422	0.5691159	0.8116	-6.076216
POMZP3	-0.039385	6.9287789	-0.590341	0.5691681	0.8116	-6.076266
RASSF5	0.0601485	8.1301604	0.590313	0.5691861	0.8116	-6.076283
CDC42SE1	0.0454821	7.6785074	0.590289	0.5692016	0.8116	-6.076297
RPL35A	-0.051025	14.332919	-0.590077	0.5693379	0.81167	-6.076426
SPATA2	-0.054075	7.4866531	-0.590031	0.5693675	0.81167	-6.076454
RUNDC1	0.0473677	8.3266037	0.5897674	0.5695367	0.81184	-6.076614
CD36	-0.038698	6.7643561	-0.589441	0.5697464	0.81184	-6.076812
CDC14C	0.0576324	7.1592355	0.5894198	0.5697601	0.81184	-6.076824
KLHL24	0.0587165	7.9380792	0.5893501	0.5698049	0.81184	-6.076867
TMPRSS5	-0.041211	6.7379945	-0.58932	0.5698244	0.81184	-6.076885
COG6	-0.061455	8.3163317	-0.589201	0.5699007	0.81184	-6.076957
KCNK1	-0.039546	6.8258544	-0.589175	0.5699176	0.81184	-6.076973
GNG10	0.0453495	8.4081691	0.5891557	0.5699299	0.81184	-6.076985
XAGE1B	-0.038836	6.795343	-0.589069	0.5699858	0.81184	-6.077037
MTSS1L	-0.061116	6.846538	-0.588803	0.5701566	0.81201	-6.077198
B3GNT8	0.0443708	6.9315066	0.5884407	0.5703896	0.81219	-6.077418
NAT8L	0.0432348	6.7623486	0.5884296	0.5703968	0.81219	-6.077424
ZNF277	-0.055973	9.4611992	-0.58818	0.5705573	0.81225	-6.077575
IBA57	-0.041781	7.3004223	-0.58813	0.5705894	0.81225	-6.077606
MIR507	-0.047523	7.1093715	-0.588101	0.5706083	0.81225	-6.077623
FRMD4A	-0.060414	6.8487332	-0.588005	0.5706697	0.81226	-6.077681
KIAA1143	-0.047001	8.1975184	-0.587738	0.5708418	0.81243	-6.077843
LGMN	0.0457028	8.2167124	0.587237	0.5711642	0.81281	-6.078146

ANKLE1	-0.042429	8.3008016	-0.586906	0.5713771	0.81302	-6.078345
NAV3	-0.045786	6.8215469	-0.586738	0.5714854	0.81302	-6.078447
METAP1	-0.058191	11.017873	-0.586696	0.5715123	0.81302	-6.078472
ACY1	0.0562484	8.22437	0.5866431	0.5715465	0.81302	-6.078504
JAM3	0.0347521	6.7694589	0.5864861	0.5716476	0.81302	-6.078599
NR2C2	0.0402881	7.4196581	0.5864823	0.5716501	0.81302	-6.078601
PCSK5	0.0422578	6.9895924	0.5862714	0.5717859	0.81308	-6.078728
CCT8	-0.047369	12.707166	-0.586245	0.5718027	0.81308	-6.078744
NIFK	0.0397348	11.060191	0.5859888	0.5719679	0.81324	-6.078899
SPTY2D1	-0.042155	7.8276501	-0.585754	0.5721191	0.81337	-6.07904
GNAZ	0.0651841	7.0089686	0.5855929	0.572223	0.81343	-6.079138
ABCB8	-0.050388	6.9587336	-0.585513	0.5722743	0.81343	-6.079186
APIP	-0.041382	9.9625611	-0.585372	0.5723656	0.81347	-6.079271
GSTO1	-0.039219	11.198432	-0.585304	0.5724092	0.81347	-6.079312
COX17	0.0566336	12.60085	0.5852194	0.5724636	0.81347	-6.079363
STARD3	0.0465849	7.5530716	0.5849567	0.572633	0.81355	-6.079521
OAS3	-0.040208	6.7987928	-0.584919	0.5726571	0.81355	-6.079543
MFSD2A	-0.038174	7.0465374	-0.584865	0.5726924	0.81355	-6.079576
SLC35F5	-0.049406	8.3040761	-0.584605	0.57286	0.81371	-6.079733
RRAGB	-0.047527	7.6050682	-0.58394	0.5732886	0.81424	-6.080132
EPC1	-0.037666	7.2112127	-0.58348	0.5735856	0.81458	-6.080409
CACNA2D3	-0.036265	6.7105549	-0.583178	0.5737804	0.81473	-6.08059
SHQ1	-0.051466	8.6577269	-0.583146	0.5738005	0.81473	-6.080609
STK11	0.0442577	7.6962178	0.5828839	0.57397	0.81482	-6.080767
ZDHHC24	-0.050767	7.4102441	-0.582741	0.5740621	0.81482	-6.080852
SLC16A5	0.0419704	6.7472176	0.5826808	0.5741011	0.81482	-6.080888
ZYG11B	0.0587574	9.2967219	0.5826665	0.5741103	0.81482	-6.080897
LINC00347	-0.039811	6.9081692	-0.58257	0.5741725	0.81482	-6.080955
WIPI1	0.0402181	6.86475	0.5825347	0.5741954	0.81482	-6.080976
ERI1	0.0373053	7.3576166	0.5824065	0.5742782	0.81485	-6.081053
DDOST	-0.054119	11.646663	-0.582196	0.5744138	0.81485	-6.081179
TINAG	0.0564253	6.9394985	0.5821734	0.5744287	0.81485	-6.081193
CLEC20A	0.03831	6.8567023	0.5820853	0.5744856	0.81485	-6.081246
TUFM	0.0628942	10.686585	0.5819396	0.5745797	0.81485	-6.081333
TATDN2	0.0359864	8.4635426	0.5816064	0.5747948	0.81485	-6.081532
PJA2	0.0741813	11.19351	0.581594	0.5748029	0.81485	-6.08154
HIST3H3	-0.04257	6.897986	-0.581409	0.5749227	0.81485	-6.081651
ZNF345	0.0385292	6.826128	0.5813084	0.5749873	0.81485	-6.081711
NXPH1	-0.038993	6.8120608	-0.581218	0.575046	0.81485	-6.081765
MAGI3	0.0372589	6.7753934	0.5812056	0.5750538	0.81485	-6.081772
IDUA	-0.034734	6.7497452	-0.581057	0.5751495	0.81485	-6.081861
KBTBD8	0.0822201	9.2716675	0.5810279	0.5751686	0.81485	-6.081879
TOMM6	0.0523914	12.286125	0.5810191	0.5751743	0.81485	-6.081884
GPD2	-0.035567	6.8386433	-0.581007	0.575182	0.81485	-6.081891
CFAP44	0.0385749	6.9469972	0.5809608	0.5752119	0.81485	-6.081919

SDC2	0.038598	6.9045412	0.5808169	0.575305	0.81485	-6.082005
TMPO	0.0375634	7.6010409	0.5807818	0.5753276	0.81485	-6.082026
ALOX5	0.0481711	6.9209611	0.5807266	0.5753633	0.81485	-6.082059
SMC6	0.0699708	8.3130155	0.5806846	0.5753905	0.81485	-6.082084
ABCC3	-0.038004	6.9124998	-0.580677	0.5753951	0.81485	-6.082088
RBM15	0.0577561	9.1716384	0.580442	0.5755473	0.81495	-6.082229
RPL36	0.0437478	11.212476	0.580405	0.5755712	0.81495	-6.082251
IL17RC	0.0344714	6.9670769	0.5802652	0.5756615	0.81499	-6.082335
L3MBTL4	-0.056477	7.0835599	-0.580123	0.5757536	0.81505	-6.08242
GTF2E2	0.0534875	11.035864	0.5800321	0.5758123	0.81505	-6.082474
SLC44A2	-0.040997	10.449015	-0.579944	0.5758691	0.81505	-6.082526
TTBK2	-0.043793	6.7820868	-0.579612	0.576084	0.81517	-6.082725
TRPM7	0.0503346	6.8860046	0.5796062	0.5760877	0.81517	-6.082728
CUL9	0.0358085	7.3786655	0.5795568	0.5761197	0.81517	-6.082758
FOXJ3	-0.07202	9.8700772	-0.579029	0.5764608	0.81557	-6.083072
P2RX2	-0.037537	6.9085496	-0.578796	0.5766121	0.81568	-6.083212
POLR2B	0.0457523	10.23163	0.578668	0.5766947	0.81568	-6.083288
LDHC	-0.037508	6.9268702	-0.578655	0.5767033	0.81568	-6.083296
LDLRAD4	0.0429796	6.6848926	0.578453	0.5768338	0.81578	-6.083416
LOC1005061	0.0436876	7.093725	0.5780246	0.5771111	0.81606	-6.083671
RUNX2	0.0363903	6.9193778	0.5779759	0.5771426	0.81606	-6.0837
CCNI2	0.0561065	7.0411425	0.5777067	0.5773169	0.81617	-6.08386
MTHFD2L	-0.038185	7.6615561	-0.577633	0.5773646	0.81617	-6.083904
AKTIP	0.0375289	8.4190227	0.5775939	0.57739	0.81617	-6.083928
DEPDC4	-0.038768	6.9891092	-0.577337	0.577556	0.81626	-6.08408
GBA3	0.0450477	6.856769	0.577329	0.5775615	0.81626	-6.084085
METTL4	0.0439901	7.6207532	0.5771029	0.577708	0.81636	-6.08422
F8A2	-0.037613	7.0380531	-0.577017	0.5777635	0.81636	-6.084271
BCAS1	-0.044428	7.0085203	-0.57688	0.5778523	0.81636	-6.084352
HMGCR	0.0680607	10.422831	0.576878	0.5778537	0.81636	-6.084353
SBF1	-0.065881	9.9447395	-0.576557	0.5780614	0.81648	-6.084544
SLC39A10	-0.051396	7.6105682	-0.57655	0.5780659	0.81648	-6.084548
MIR1227	0.0457511	6.8431894	0.5764448	0.5781343	0.81648	-6.084611
ZZEF1	0.0459722	8.6420561	0.5763921	0.5781685	0.81648	-6.084642
CHAT	-0.036723	6.8135276	-0.576219	0.5782807	0.81656	-6.084745
ZNF214	0.0558801	6.8700457	0.5760953	0.5783608	0.81658	-6.084818
SIGIRR	-0.040501	6.9477059	-0.576002	0.5784216	0.81658	-6.084874
FRAT2	0.041988	8.3898229	0.5759372	0.5784633	0.81658	-6.084912
ORM1	-0.036589	6.8021872	-0.575702	0.578616	0.81661	-6.085052
OPRK1	0.0344658	6.888168	0.5756911	0.5786228	0.81661	-6.085058
MIR15A	0.039577	6.8125856	0.5755992	0.5786824	0.81661	-6.085112
RANBP2	-0.046241	7.3833405	-0.575346	0.5788468	0.81661	-6.085263
SYT3	0.0506493	7.072353	0.575298	0.5788778	0.81661	-6.085291
SYTL3	-0.034957	6.8649441	-0.575258	0.5789035	0.81661	-6.085315
AP1S3	-0.049918	7.0305546	-0.575184	0.5789517	0.81661	-6.085359

CENPA	-0.040164	8.5850355	-0.575089	0.579013	0.81661	-6.085415
RNF41	0.0429061	7.3995186	0.5750843	0.5790163	0.81661	-6.085418
VAT1	0.0588615	7.7993912	0.5749918	0.5790763	0.81661	-6.085473
C7orf13	0.0455475	7.0445219	0.5748715	0.5791543	0.81661	-6.085544
SLC25A3	0.0361313	11.066209	0.5747947	0.5792042	0.81661	-6.085589
ACTL8	-0.040074	7.6625828	-0.574791	0.5792068	0.81661	-6.085592
SEMA4A	0.0590424	8.524764	0.574528	0.5793772	0.81677	-6.085747
NCAN	0.0406653	7.5006514	0.5740243	0.579704	0.81715	-6.086045
ZNF720	0.0455304	7.0851836	0.5735376	0.5800199	0.81747	-6.086333
ZNF197	0.0368254	7.093006	0.5734765	0.5800596	0.81747	-6.086369
STEAP3	-0.040742	6.7930155	-0.573371	0.5801278	0.81747	-6.086431
PACSIN3	-0.044418	6.7395836	-0.57315	0.5802713	0.81747	-6.086562
SUSD6	0.0419297	8.2663452	0.5729615	0.580394	0.81747	-6.086674
TFIP11	0.0437701	8.1222159	0.5728261	0.5804819	0.81747	-6.086753
BAALC	0.0416287	6.9653009	0.5727978	0.5805003	0.81747	-6.08677
CYP4V2	0.0567418	8.2094893	0.5726761	0.5805794	0.81747	-6.086842
POLR3B	-0.061021	9.2883879	-0.572575	0.580645	0.81747	-6.086902
OVOL2	-0.046313	6.8301825	-0.572561	0.580654	0.81747	-6.08691
HOXA10	-0.034367	6.8134764	-0.57251	0.5806871	0.81747	-6.08694
PRDM14	-0.034876	6.8490505	-0.572509	0.5806881	0.81747	-6.086941
SLC17A7	-0.044981	6.8973675	-0.57245	0.580726	0.81747	-6.086975
UBR1	-0.064583	7.2279132	-0.572423	0.5807435	0.81747	-6.086991
PHLDA2	-0.037864	6.8009762	-0.57234	0.5807979	0.81747	-6.087041
LOC641367	-0.04016	7.0478736	-0.57229	0.5808298	0.81747	-6.08707
KIAA1324L	0.0340851	6.8611653	0.5721827	0.5808998	0.81749	-6.087133
SPAST	0.0603889	8.1063891	0.5720385	0.5809936	0.81751	-6.087218
FOXP3	0.0503534	7.0344494	0.5719915	0.5810241	0.81751	-6.087246
AJAP1	-0.03454	6.8916365	-0.571699	0.581214	0.8177	-6.087418
MROH8	0.0387321	6.8905711	0.5710758	0.5816193	0.81817	-6.087785
XPA	-0.039904	7.458591	-0.570965	0.5816913	0.81817	-6.087851
PCDHB5	-0.040639	6.7446187	-0.570929	0.5817146	0.81817	-6.087872
PCDHB17P	-0.040416	6.7791008	-0.570837	0.5817748	0.81817	-6.087926
GTSE1	0.0492743	8.6941223	0.5706224	0.5819141	0.81819	-6.088052
KIF1BP	0.039786	7.2507898	0.5705423	0.5819662	0.81819	-6.088099
HOXA2	0.0348989	6.9190849	0.5704428	0.5820309	0.81819	-6.088158
ORMDL1	-0.059665	8.9269821	-0.570429	0.5820397	0.81819	-6.088166
N4BP2	-0.047325	8.3665454	-0.570361	0.5820838	0.81819	-6.088206
ATP6V1B1	0.0376455	6.8589614	0.570283	0.5821349	0.81819	-6.088252
APOBR	-0.045089	6.8271877	-0.570139	0.5822285	0.81819	-6.088337
NBPF4	-0.048093	6.9201903	-0.570131	0.5822337	0.81819	-6.088341
SSH1	0.0532175	6.9852904	0.5698571	0.5824119	0.81832	-6.088502
DPCD	-0.046645	8.9547054	-0.569809	0.5824432	0.81832	-6.088531
DNAJB11	-0.057066	11.740535	-0.569466	0.5826662	0.81838	-6.088732
HOOK3	0.0373318	7.1188237	0.5693357	0.5827512	0.81838	-6.088809
KCTD17	0.0463278	7.4680182	0.5693101	0.5827679	0.81838	-6.088824

METTL12	-0.05352	7.0918	-0.5693	0.5827745	0.81838	-6.08883
MX2	0.0408402	6.8586837	0.569259	0.5828011	0.81838	-6.088854
ATP6V0A4	-0.035443	6.8149638	-0.5692	0.5828396	0.81838	-6.088888
CDC7	0.0448984	9.2874409	0.5691441	0.5828759	0.81838	-6.088921
SIK1	0.0425966	7.2904321	0.5686314	0.5832097	0.81865	-6.089222
LRFN5	0.0392149	6.8579568	0.5685991	0.5832307	0.81865	-6.089241
FAM197Y9	-0.045377	6.8829641	-0.568587	0.5832388	0.81865	-6.089248
GATM	-0.037794	6.7896863	-0.568401	0.5833599	0.81875	-6.089357
DIRAS3	-0.040215	6.8649912	-0.568136	0.583532	0.81886	-6.089512
CD1A	-0.04557	6.8625412	-0.568105	0.5835527	0.81886	-6.08953
RPL32P3	-0.041016	7.0815552	-0.568001	0.58362	0.81887	-6.089591
UBE2W	0.0342525	7.5393536	0.567782	0.5837629	0.819	-6.08972
FOXD2	-0.038378	6.9302274	-0.567474	0.5839635	0.81914	-6.0899
KLHL26	0.0479576	7.1948464	0.5674579	0.583974	0.81914	-6.089909
MICA	-0.0353	6.8719044	-0.567297	0.5840788	0.8192	-6.090003
RTN3	-0.036211	8.0225287	-0.567041	0.5842456	0.81936	-6.090153
LRRC37A	-0.03842	6.9358156	-0.566843	0.5843745	0.81944	-6.090269
EFNA4	-0.04401	7.7279532	-0.566783	0.5844141	0.81944	-6.090304
MOG	-0.044315	6.8532251	-0.566509	0.5845924	0.81949	-6.090464
PAPLN	-0.037314	6.7221909	-0.566337	0.5847049	0.81949	-6.090565
ILF2	0.0556849	12.14072	0.566316	0.5847184	0.81949	-6.090577
MZT1	-0.055535	8.9809703	-0.566304	0.5847262	0.81949	-6.090584
AFF3	-0.040344	8.0897849	-0.566249	0.5847624	0.81949	-6.090616
VAMP7	0.043834	9.9014309	0.5662115	0.5847865	0.81949	-6.090638
FATE1	0.0472159	6.7946001	0.5659696	0.5849443	0.81955	-6.090779
GPHN	0.0371341	6.7632945	0.5659675	0.5849456	0.81955	-6.090781
YTHDF2	0.0397187	10.355222	0.5658387	0.5850296	0.81959	-6.090856
ZFPL1	0.043586	7.5256957	0.5656459	0.5851554	0.81963	-6.090968
ZNF551	-0.041349	6.9610247	-0.565627	0.585168	0.81963	-6.09098
AURKC	0.0368974	6.8398487	0.5654924	0.5852555	0.81967	-6.091058
TRA2A	-0.047413	9.0753604	-0.565335	0.5853579	0.8197	-6.091149
EBF3	-0.04193	6.8381499	-0.565122	0.5854973	0.8197	-6.091274
KLF3	-0.0363	6.9707836	-0.565074	0.5855282	0.8197	-6.091302
TCL6	-0.037717	6.9484152	-0.565065	0.5855346	0.8197	-6.091307
IRF6	-0.041328	6.909945	-0.564817	0.5856964	0.8197	-6.091452
CYSTM1	0.0359173	9.5378329	0.5648147	0.5856977	0.8197	-6.091453
RPS20	-0.062781	14.078845	-0.564621	0.5858243	0.8197	-6.091566
ELOA	-0.048416	9.54094	-0.564588	0.5858456	0.8197	-6.091585
AMER1	-0.035917	7.7036347	-0.564577	0.5858527	0.8197	-6.091591
MIR181C	-0.050796	7.0054058	-0.564479	0.5859168	0.8197	-6.091649
SCN1A	0.0349372	6.8894702	0.5644353	0.5859454	0.8197	-6.091674
PYCR1	0.0686063	7.9269454	0.5644249	0.5859522	0.8197	-6.09168
ZNF324B	0.0664934	7.2518108	0.563943	0.5862668	0.82005	-6.091961
CEP128	0.0792502	7.6318209	0.5638695	0.5863148	0.82005	-6.092003
PIWIL4	0.0373675	6.8231287	0.5635642	0.5865142	0.82025	-6.092181

ZNF77	0.0518319	8.1234546	0.5632324	0.5867309	0.82044	-6.092374
NR6A1	-0.041421	6.9935403	-0.563136	0.586794	0.82044	-6.09243
EPS15	-0.040325	9.2078592	-0.562963	0.586907	0.82044	-6.092531
ALG11	0.0382054	7.2719108	0.5628914	0.5869537	0.82044	-6.092572
ZDHHC16	-0.048644	9.6188794	-0.562868	0.5869689	0.82044	-6.092586
PLGLA	0.0380228	6.992758	0.5628445	0.5869843	0.82044	-6.092599
CD300LF	-0.036416	6.7151768	-0.56246	0.5872355	0.82071	-6.092822
MRPL38	0.0724721	9.9260491	0.5623527	0.5873057	0.82073	-6.092885
SNTB1	-0.037075	6.8166329	-0.561905	0.5875984	0.82106	-6.093145
ZNF79	-0.058925	7.2376172	-0.561654	0.5877626	0.82108	-6.09329
LRP2	-0.058173	6.9085442	-0.561542	0.587836	0.82108	-6.093355
P2RY2	-0.034335	6.7447625	-0.561535	0.5878402	0.82108	-6.093359
FAM189B	-0.040291	9.1943643	-0.561461	0.5878889	0.82108	-6.093402
TNFRSF9	0.0436344	8.1525733	0.5614308	0.5879084	0.82108	-6.093419
ANK2	0.0420991	6.9425683	0.561373	0.5879463	0.82108	-6.093453
FGL2	-0.043936	6.9806094	-0.561201	0.588059	0.82108	-6.093553
VGLL4	-0.069408	8.9565039	-0.561174	0.5880763	0.82108	-6.093568
ZNF841	0.0401077	6.7556201	0.5610514	0.5881566	0.82108	-6.093639
LYPD2	-0.045924	6.9812402	-0.561023	0.5881751	0.82108	-6.093656
TREX1	0.0351082	6.9522644	0.5607277	0.5883684	0.82121	-6.093827
CADPS2	0.0505884	6.8571478	0.5607139	0.5883774	0.82121	-6.093835
DMXL2	-0.040546	6.9291684	-0.560558	0.5884791	0.82127	-6.093925
LRP5	0.0368848	6.7747377	0.5601531	0.5887443	0.8213	-6.094159
SERPINE3	-0.04827	6.7875365	-0.560149	0.5887468	0.8213	-6.094161
TARBP1	-0.047937	8.2781753	-0.560127	0.5887616	0.8213	-6.094174
PCDHA1	-0.042571	6.8631686	-0.560121	0.5887656	0.8213	-6.094178
CACYBP	-0.051016	8.2996062	-0.559912	0.5889022	0.8213	-6.094299
REPS1	0.0453161	7.3690841	0.5598511	0.5889421	0.8213	-6.094334
CYP2A7	-0.035753	6.8167175	-0.559759	0.5890026	0.8213	-6.094387
CALM2	-0.04035	12.97835	-0.55975	0.5890085	0.8213	-6.094392
ZNF57	-0.05062	7.0974625	-0.559652	0.5890722	0.8213	-6.094449
GBP4	-0.039594	6.8041058	-0.559522	0.5891573	0.8213	-6.094524
PELO	-0.051411	9.2373059	-0.559454	0.5892023	0.8213	-6.094563
CDCP1	-0.038	6.9068855	-0.559408	0.589232	0.8213	-6.09459
MECR	0.0343143	7.5427521	0.5594079	0.5892322	0.8213	-6.09459
HYPK	0.0451448	8.6874025	0.5589619	0.5895242	0.82153	-6.094847
ARMC2	-0.04065	6.9012445	-0.558923	0.5895494	0.82153	-6.094869
NCEH1	-0.035398	7.7865289	-0.558899	0.5895658	0.82153	-6.094884
CEP120	-0.071186	7.273499	-0.558618	0.5897492	0.82161	-6.095045
C16orf59	-0.051678	8.5697092	-0.558582	0.5897734	0.82161	-6.095067
GUK1	-0.065831	10.51466	-0.558549	0.5897947	0.82161	-6.095085
FAHD2CP	-0.047343	7.167227	-0.558256	0.5899869	0.82169	-6.095255
HSD11B1	-0.036578	6.7442806	-0.558225	0.590007	0.82169	-6.095272
CYB5RL	-0.036001	7.1109937	-0.558154	0.5900533	0.82169	-6.095313
MYO3A	-0.038199	6.913676	-0.558119	0.5900763	0.82169	-6.095333

NEURL4	0.0399861	7.6932565	0.5579862	0.5901634	0.82174	-6.09541
GPATCH2	0.0528706	7.2873526	0.5578962	0.5902225	0.82174	-6.095462
GALNS	-0.053246	7.1747435	-0.557685	0.5903606	0.82185	-6.095583
ZBTB40	0.0936856	7.8713329	0.5575973	0.5904184	0.82186	-6.095634
CCDC186	0.060209	7.0075996	0.5575076	0.5904771	0.82186	-6.095686
SNORD91A	-0.059112	7.5947023	-0.557272	0.5906318	0.822	-6.095821
RABGGTB	-0.055507	10.081002	-0.556789	0.5909482	0.82236	-6.096099
CXCL1	0.0378008	6.9489902	0.5563657	0.5912259	0.82267	-6.096342
YAF2	0.0367331	7.2106586	0.5562286	0.5913159	0.82271	-6.096421
LOC389405	0.0400165	6.8238175	0.5558786	0.5915455	0.82276	-6.096622
RADIL	-0.032827	6.7702566	-0.555873	0.5915493	0.82276	-6.096626
GINS4	0.0503352	7.3390307	0.5558467	0.5915664	0.82276	-6.096641
IPMK	0.0365262	6.884839	0.5557383	0.5916375	0.82276	-6.096703
RNASE3	0.0516981	6.7333928	0.5556942	0.5916665	0.82276	-6.096728
MROH6	-0.038211	6.8138778	-0.555664	0.5916861	0.82276	-6.096745
RRM2B	0.0792818	8.7333198	0.5554883	0.5918016	0.82284	-6.096846
ALAS1	0.0457963	7.2857039	0.5553158	0.5919148	0.82292	-6.096945
RALGDS	-0.037303	8.6260324	-0.554718	0.5923075	0.82322	-6.097288
UEVLD	0.0331176	6.838063	0.5546649	0.5923422	0.82322	-6.097318
FCHSD1	-0.036332	6.8568662	-0.554642	0.5923573	0.82322	-6.097332
BCKDHB	-0.038124	8.5596167	-0.554619	0.5923723	0.82322	-6.097345
HTR2A	-0.054104	6.9407905	-0.554557	0.5924127	0.82322	-6.09738
DSG2	-0.040628	6.8092879	-0.554395	0.5925194	0.82329	-6.097473
RIOX1	-0.040529	9.2304577	-0.554143	0.5926851	0.82344	-6.097617
LIMK1	0.0391825	6.9245973	0.5535895	0.5930485	0.82387	-6.097934
SPAG6	0.0346315	6.8024934	0.5533279	0.5932204	0.82396	-6.098084
ZBTB38	-0.048082	7.0286055	-0.55331	0.5932321	0.82396	-6.098094
GPR68	0.033277	6.8029388	0.552825	0.5935509	0.82426	-6.098371
LRRC23	-0.044155	7.23772	-0.552744	0.5936044	0.82426	-6.098417
HRH1	0.0365377	7.11666	0.5526743	0.59365	0.82426	-6.098457
ZFP30	-0.055396	7.1907348	-0.552638	0.5936739	0.82426	-6.098478
CYP4F3	0.0528455	6.7727874	0.5524118	0.5938226	0.82439	-6.098607
ANXA5	0.0431322	9.9263956	0.552142	0.594	0.82456	-6.098761
NDUFAF8	-0.042364	8.1459611	-0.551836	0.5942014	0.82476	-6.098936
GPR160	-0.053694	7.913964	-0.551659	0.5943174	0.82483	-6.099036
ABCA5	0.0348808	6.8055978	0.5515871	0.5943649	0.82483	-6.099077
HIST1H3H	0.0361603	6.9277589	0.5512766	0.5945692	0.82504	-6.099254
CCND2	0.0376898	6.8800611	0.5509007	0.5948166	0.82529	-6.099468
AUH	0.0501874	8.1816348	0.5507972	0.5948847	0.82529	-6.099527
GUCD1	0.0621978	10.516777	0.5507431	0.5949203	0.82529	-6.099558
NCKAP1	-0.034644	6.8090741	-0.550507	0.5950759	0.8253	-6.099693
MED13	0.0388806	7.000184	0.5504949	0.5950837	0.8253	-6.099699
LOC1009964	-0.043629	6.8770127	-0.550477	0.5950952	0.8253	-6.099709
MIR642A	0.0642101	7.0892398	0.550137	0.5953193	0.82553	-6.099903
GNAI1	0.0349393	6.8442235	0.54992	0.5954621	0.82559	-6.100026

PGP	-0.038654	7.2786182	-0.549833	0.5955196	0.82559	-6.100076
VPS13B	-0.034947	7.0445571	-0.549735	0.5955841	0.82559	-6.100132
CCDC151	0.0335488	6.9137538	0.5496419	0.5956453	0.82559	-6.100184
TSC22D3	-0.041787	8.3549104	-0.54964	0.5956467	0.82559	-6.100186
ARPP21	0.0385611	6.7965586	0.5495321	0.5957176	0.82559	-6.100247
GCOM1	0.0362726	6.8489782	0.5494221	0.59579	0.82559	-6.100309
TAF1L	0.0426611	7.5985606	0.5493073	0.5958657	0.82559	-6.100374
RAB3IL1	0.0364619	6.7162029	0.5492922	0.5958756	0.82559	-6.100383
EEF2K	-0.037958	9.3555918	-0.54889	0.5961408	0.82588	-6.100611
LRRC1	-0.040205	7.5136145	-0.548755	0.5962295	0.82589	-6.100688
PANX2	0.0357022	6.7024849	0.5487131	0.5962571	0.82589	-6.100712
NPEPPS	0.0448309	8.3393698	0.5483917	0.5964689	0.82605	-6.100894
DEAF1	0.0341022	7.0291953	0.5482762	0.5965451	0.82605	-6.100959
RPS14	-0.032639	13.802053	-0.548225	0.5965789	0.82605	-6.100988
TGIF1	-0.033665	7.088361	-0.548111	0.5966538	0.82605	-6.101053
LRRN2	0.0660224	7.003452	0.5481093	0.5966551	0.82605	-6.101054
ABTB1	-0.04231	6.9592292	-0.547955	0.596757	0.8261	-6.101142
PNPT1	-0.050233	10.437404	-0.547878	0.5968077	0.8261	-6.101185
MICALL1	-0.054627	7.2547019	-0.547756	0.5968881	0.82613	-6.101254
KIF7	-0.040491	6.799141	-0.547572	0.5970096	0.82622	-6.101359
IFNGR2	-0.054719	11.10364	-0.547262	0.5972138	0.82637	-6.101534
KLF16	-0.03935	6.8566403	-0.547234	0.597232	0.82637	-6.101549
ADAM17	-0.03934	7.9407915	-0.54693	0.5974328	0.82653	-6.101722
TMCO2	-0.036373	6.7807521	-0.546893	0.5974569	0.82653	-6.101742
SUGP1	0.0512527	9.160839	0.5467036	0.5975821	0.82662	-6.10185
PIM2	-0.045779	11.34205	-0.546365	0.5978057	0.82684	-6.102041
LYZL1	0.0418358	6.915475	0.5462923	0.5978534	0.82684	-6.102082
TIAM2	0.0433941	8.1845948	0.5460826	0.5979918	0.82696	-6.1022
SOAT2	0.046049	6.974576	0.5455377	0.5983515	0.82737	-6.102508
FKBP8	-0.047288	7.1030602	-0.54517	0.5985941	0.82742	-6.102715
UNG	0.0389928	8.0888493	0.5451676	0.5985959	0.82742	-6.102717
PABPC1	0.0480714	12.962982	0.5451127	0.5986321	0.82742	-6.102748
MIR326	0.0389459	6.9614168	0.5450727	0.5986585	0.82742	-6.10277
OGFRL1	-0.034488	8.4250523	-0.544823	0.5988232	0.82742	-6.102911
COPS6	0.0331879	9.5176349	0.5447916	0.5988442	0.82742	-6.102929
ZNF43	0.0339264	6.8316796	0.5447512	0.5988708	0.82742	-6.102951
RAB20	0.0346678	6.7424343	0.5446993	0.5989051	0.82742	-6.102981
FAM168A	0.050981	8.5675658	0.5446857	0.5989141	0.82742	-6.102988
EPHA10	-0.044559	7.2621104	-0.544633	0.5989488	0.82742	-6.103018
GRTP1	0.042258	6.8770836	0.544368	0.599124	0.82758	-6.103167
RFESD	0.0385908	6.8316787	0.543972	0.5993856	0.82786	-6.10339
CORO1B	-0.044817	7.1791784	-0.54361	0.5996247	0.82812	-6.103594
RAB17	-0.036934	6.7483885	-0.543285	0.5998393	0.82822	-6.103776
GPD1	0.0377065	6.8949472	0.5432022	0.5998944	0.82822	-6.103823
BAZ2A	0.0350249	6.9306134	0.5431846	0.599906	0.82822	-6.103833

ZNF30	-0.032891	6.7548532	-0.543031	0.6000075	0.82822	-6.103919
CTDSPL	-0.033747	6.792931	-0.542981	0.6000405	0.82822	-6.103947
ASB12	-0.034798	6.7464203	-0.54298	0.6000411	0.82822	-6.103948
NETO1	-0.041345	7.0097668	-0.542822	0.6001458	0.82829	-6.104037
PCDHGC4	0.0393267	6.9388928	0.5425968	0.6002947	0.82841	-6.104163
LYSMD4	-0.034274	7.8475518	-0.542472	0.6003773	0.82845	-6.104233
KTI12	-0.051559	9.2499838	-0.541933	0.6007339	0.82884	-6.104536
NDFIP1	0.039514	7.6183081	0.5417593	0.6008487	0.82884	-6.104633
MPG	-0.035682	6.8469717	-0.541674	0.600905	0.82884	-6.104681
HIST2H2BE	-0.051814	7.1096239	-0.54164	0.6009278	0.82884	-6.1047
ELOF1	0.059418	8.9396819	0.5416143	0.6009446	0.82884	-6.104714
DSTYK	-0.032473	7.5556053	-0.541211	0.6012114	0.82896	-6.10494
CCNB2	-0.054533	10.652	-0.541149	0.6012524	0.82896	-6.104975
NPC1	0.0388236	8.1491856	0.5411111	0.6012776	0.82896	-6.104996
GAB3	-0.048485	6.7799581	-0.541048	0.6013196	0.82896	-6.105031
LAT	-0.033425	6.9108485	-0.540966	0.6013737	0.82896	-6.105077
RUNDC3B	0.0406508	6.8249952	0.5408931	0.6014219	0.82896	-6.105118
HDAC9	0.0438818	7.195196	0.5408424	0.6014554	0.82896	-6.105146
ARL4C	0.0398857	6.9594946	0.5408003	0.6014834	0.82896	-6.10517
OAZ1	-0.048955	14.219498	-0.540396	0.6017508	0.82923	-6.105396
ACSS2	0.0318778	6.8092907	0.5402261	0.6018635	0.82923	-6.105491
HSF4	-0.037245	6.8594341	-0.54019	0.6018876	0.82923	-6.105511
HMGN2P46	0.0448267	7.8763294	0.5401159	0.6019365	0.82923	-6.105553
IL1RAP	0.0406593	6.8631329	0.5399944	0.602017	0.82923	-6.105621
SRSF8	0.0508526	9.9532569	0.5399912	0.6020191	0.82923	-6.105622
CCNJL	0.0425568	6.8662365	0.5396274	0.6022601	0.82947	-6.105826
CD44	0.032828	6.8078884	0.5395487	0.6023122	0.82947	-6.10587
SLC27A4	-0.040485	7.0226428	-0.53912	0.6025965	0.82979	-6.106109
RIPK1	0.0457112	7.6664543	0.538827	0.6027904	0.8299	-6.106272
KPNA1	0.0434032	9.2260636	0.5388238	0.6027926	0.8299	-6.106274
FAM105A	-0.035864	6.8926592	-0.538553	0.6029723	0.8299	-6.106425
GIMAP6	-0.03345	6.7644449	-0.538551	0.6029731	0.8299	-6.106426
RBBP5	-0.032839	7.9597738	-0.538547	0.6029763	0.8299	-6.106429
ZSCAN25	-0.040636	7.1018429	-0.538475	0.6030236	0.8299	-6.106468
TRIOBP	0.0343161	7.2993392	0.5382394	0.6031799	0.83002	-6.1066
CEP89	0.0435461	7.1246663	0.5380375	0.6033138	0.83002	-6.106712
CHRNA2	0.0473512	7.0097067	0.5380048	0.6033354	0.83002	-6.10673
FAM13A	0.0342745	6.836818	0.5379921	0.6033439	0.83002	-6.106738
BABAM1	0.0408134	9.4539353	0.5379209	0.6033911	0.83002	-6.106777
COL11A1	0.0335845	6.8786358	0.5375809	0.6036166	0.83018	-6.106966
ALS2	-0.049086	8.3008439	-0.537521	0.6036562	0.83018	-6.107
CLNS1A	-0.042885	11.594314	-0.537482	0.603682	0.83018	-6.107021
PDE3B	-0.038771	7.1560564	-0.537227	0.603851	0.8303	-6.107163
RPS11	-0.05967	14.403884	-0.537188	0.6038774	0.8303	-6.107185
CCNT2	0.0399328	7.3521086	0.537019	0.6039893	0.83034	-6.107279

ADAMTS9	0.0356936	6.7609893	0.5369361	0.6040443	0.83034	-6.107325
TDRD3	-0.059886	7.4767707	-0.536814	0.6041254	0.83034	-6.107393
FXYD1	0.0348618	7.0469504	0.5367668	0.6041567	0.83034	-6.107419
PMVK	0.0589136	9.2163665	0.536716	0.6041903	0.83034	-6.107447
PBXIP1	-0.037105	6.9129572	-0.536533	0.6043119	0.83034	-6.107549
PDHB	-0.039209	12.337603	-0.536488	0.6043417	0.83034	-6.107574
DCAF12L1	-0.040017	6.9234861	-0.536394	0.604404	0.83034	-6.107626
IMPG2	-0.033196	6.8937026	-0.536371	0.604419	0.83034	-6.107639
RGMA	0.0533123	7.1686901	0.5362303	0.6045127	0.83038	-6.107717
AIFM2	0.0344426	6.8329553	0.5361522	0.6045646	0.83038	-6.107761
SNORD67	0.0471045	6.9881869	0.5355415	0.60497	0.83086	-6.108099
SLC7A5P2	0.0346089	9.3603958	0.5353395	0.6051041	0.83096	-6.108211
KRTAP11-1	0.0345291	6.8575549	0.5347493	0.6054961	0.83142	-6.108538
TERF1	0.0460103	7.2993404	0.5342501	0.6058278	0.83172	-6.108815
SLC3A2	0.0498508	8.3845268	0.5340465	0.6059631	0.83172	-6.108927
ARMC8	-0.038871	7.3355867	-0.533823	0.6061119	0.83172	-6.109051
SPG20	-0.045062	6.8994029	-0.5338	0.6061269	0.83172	-6.109063
ARSH	-0.032596	6.837044	-0.533796	0.6061293	0.83172	-6.109065
RABL2B	-0.039995	7.7623599	-0.533775	0.6061437	0.83172	-6.109077
DOCK9-AS2	-0.03521	6.7842315	-0.533666	0.606216	0.83172	-6.109138
DDAH2	-0.043375	6.9093036	-0.533654	0.6062238	0.83172	-6.109144
SPOCK2	-0.034308	8.5653134	-0.533635	0.6062367	0.83172	-6.109155
USP47	-0.04408	7.3751271	-0.533564	0.6062837	0.83172	-6.109194
NUP98	-0.038549	7.3567673	-0.533324	0.6064433	0.83173	-6.109326
GMPPA	-0.042674	8.1285052	-0.533302	0.6064579	0.83173	-6.109339
UTP14A	-0.04158	9.6384087	-0.533302	0.606458	0.83173	-6.109339
PEX11G	-0.037525	6.9672147	-0.532937	0.6067008	0.83198	-6.10954
PNISR	-0.063006	9.4958096	-0.532629	0.6069056	0.83219	-6.10971
KCTD9	0.0391526	8.0575973	0.532486	0.6070007	0.83224	-6.109789
GABBR2	0.0390468	6.7738676	0.5323755	0.6070741	0.83226	-6.10985
PPIC	-0.032124	6.7547436	-0.532141	0.6072301	0.83228	-6.109979
TRAF4	0.0450784	7.8118624	0.5319703	0.6073438	0.83228	-6.110073
CHPT1	0.0327039	6.8417619	0.5319679	0.6073454	0.83228	-6.110075
KAZN	-0.03311	6.8433851	-0.53188	0.607404	0.83228	-6.110123
SLC38A8	-0.036911	6.899882	-0.531846	0.6074262	0.83228	-6.110142
CEBPE	0.0327975	6.8223917	0.5318217	0.6074427	0.83228	-6.110155
APOA1	-0.03501	6.8223469	-0.531726	0.6075063	0.83228	-6.110208
ARHGEF18	-0.048319	10.899546	-0.531665	0.6075472	0.83228	-6.110242
B3GALNT1	-0.031392	6.8174786	-0.530972	0.6080083	0.83284	-6.110623
APBA2	0.0352679	6.7312945	0.5307754	0.6081391	0.83294	-6.110731
SLC7A5P1	-0.037519	6.9130601	-0.530686	0.6081987	0.83294	-6.11078
EXOSC5	0.0537567	9.3040095	0.5305794	0.6082696	0.83296	-6.110839
TIMM44	0.0524801	8.9264698	0.530493	0.6083271	0.83296	-6.110886
RHOC	0.0413176	7.6180063	0.5301832	0.6085334	0.83312	-6.111057
PSMC3IP	0.0352659	7.4256675	0.5301522	0.6085541	0.83312	-6.111074

PBX4	0.0359158	7.5189722	0.5298587	0.6087496	0.83331	-6.111235
MNDA	-0.034754	6.8346697	-0.529687	0.608864	0.83338	-6.111329
FRS2	0.0485406	7.6574442	0.5293939	0.6090593	0.83345	-6.11149
JAKMIP2	-0.051096	7.3416575	-0.529391	0.6090615	0.83345	-6.111492
RNF180	-0.039527	6.9083091	-0.529352	0.6090873	0.83345	-6.111513
ZFY	-0.044661	7.2114914	-0.529177	0.609204	0.83353	-6.111609
LATS1	-0.037961	6.8093554	-0.529103	0.6092531	0.83353	-6.111649
RTL6	0.0428334	6.8906481	0.5289416	0.6093607	0.83359	-6.111738
CDC40	0.0452748	9.5680033	0.5288319	0.6094339	0.83362	-6.111798
ANPEP	0.0319302	6.8135526	0.5285142	0.6096456	0.83369	-6.111972
DYNLL1	-0.039555	12.238109	-0.528479	0.6096692	0.83369	-6.111991
OSBP2	-0.033204	6.7779879	-0.528184	0.6098657	0.83369	-6.112153
RHOA	-0.033174	12.105311	-0.52798	0.6100017	0.83369	-6.112264
DCTN2	-0.057518	10.96291	-0.527941	0.6100276	0.83369	-6.112286
L3MBTL1	0.0348944	6.8194936	0.5278549	0.6100852	0.83369	-6.112333
GUSBP4	0.0451544	7.9373325	0.5278214	0.6101076	0.83369	-6.112351
FILIP1L	0.0324931	6.8275452	0.5277467	0.6101574	0.83369	-6.112392
KLHDC8B	0.0324596	6.81185	0.5276951	0.6101919	0.83369	-6.11242
CRADD	-0.03885	7.973316	-0.527675	0.6102053	0.83369	-6.112431
MIPEP	-0.05413	8.6945366	-0.527655	0.6102187	0.83369	-6.112442
AKAP7	-0.034686	6.7089118	-0.527633	0.6102334	0.83369	-6.112454
PAFAH1B2	-0.042451	7.3549709	-0.527614	0.6102459	0.83369	-6.112465
LRRN4	0.0363323	6.836565	0.5274716	0.610341	0.83369	-6.112542
RPL35	-0.051535	13.6024	-0.527468	0.6103434	0.83369	-6.112544
GBAP1	-0.059637	7.0524164	-0.527359	0.610416	0.83371	-6.112604
METTL14	0.0356152	7.6042905	0.5271855	0.6105318	0.83371	-6.112699
OR12D3	0.038706	6.9125863	0.5271837	0.610533	0.83371	-6.1127
MIR1915	0.0424584	7.086493	0.5269739	0.610673	0.83373	-6.112814
RAB3D	0.0333732	6.8696942	0.526923	0.6107069	0.83373	-6.112842
PHKB	-0.037478	7.7252352	-0.526788	0.6107968	0.83373	-6.112916
SLC35E3	0.0404381	9.4756316	0.5267645	0.6108127	0.83373	-6.112929
LBX2	-0.031995	6.7921032	-0.526742	0.610828	0.83373	-6.112941
ECD	-0.035233	8.5966199	-0.526655	0.6108855	0.83373	-6.112988
HS6ST1	-0.042263	6.9038754	-0.526526	0.6109719	0.83376	-6.113059
RBMY3AP	-0.037479	6.9307112	-0.526451	0.6110218	0.83376	-6.1131
ZNF74	0.0479509	6.7099204	0.5261442	0.6112268	0.8338	-6.113267
LSG1	-0.045974	8.3531465	-0.526071	0.6112756	0.8338	-6.113307
OR52D1	-0.040876	6.9262293	-0.526036	0.6112991	0.8338	-6.113326
EIF3A	0.0731912	10.404809	0.5260312	0.6113022	0.8338	-6.113329
ERGIC3	0.0636916	10.31026	0.5259767	0.6113386	0.8338	-6.113359
GNPDA2	0.0339176	7.6027065	0.5257822	0.6114684	0.8339	-6.113465
C12orf65	-0.040672	8.9292505	-0.525503	0.6116548	0.83407	-6.113617
BRE	0.0387307	8.3496023	0.5253407	0.6117633	0.83408	-6.113705
IGSF11	-0.037555	7.0052667	-0.525257	0.6118194	0.83408	-6.113751
SNAI3	0.0505202	6.8962645	0.5251893	0.6118644	0.83408	-6.113788

C19orf70	-0.052245	11.075584	-0.525044	0.6119616	0.83408	-6.113867
ZNF813	0.0561254	7.2506834	0.5249868	0.6119997	0.83408	-6.113898
CHD2	0.0591903	7.283315	0.5249845	0.6120012	0.83408	-6.113899
ABHD2	0.0362393	7.2218159	0.5248605	0.6120841	0.83409	-6.113967
ACADS	-0.036443	6.8910827	-0.524799	0.612125	0.83409	-6.114
SPATC1L	-0.036808	6.934076	-0.524441	0.6123643	0.83434	-6.114195
FCGR3B	-0.034915	7.672995	-0.524182	0.6125374	0.8345	-6.114335
OR1L4	0.0435974	6.9046778	0.5239159	0.6127153	0.83466	-6.11448
ESCO1	-0.037883	7.7752914	-0.523702	0.6128584	0.83475	-6.114596
FAM129B	0.0337385	6.8931073	0.5235995	0.6129268	0.83475	-6.114652
FAM71E1	-0.034808	6.8665639	-0.523558	0.6129543	0.83475	-6.114674
PSTPIP2	0.042269	6.7142676	0.5234764	0.6130091	0.83475	-6.114719
PRR3	0.049458	8.7109887	0.5231905	0.6132002	0.83493	-6.114874
LINC01132	-0.03393	7.0031723	-0.522932	0.6133733	0.83502	-6.115014
C11orf21	-0.038878	6.8114059	-0.522839	0.6134354	0.83502	-6.115064
TTC1	-0.051225	9.1689828	-0.52273	0.6135082	0.83502	-6.115123
DNAJB4	0.044986	7.1247933	0.5224441	0.6136995	0.83502	-6.115278
AK3	-0.044505	10.20098	-0.5224	0.6137293	0.83502	-6.115303
LINC00656	0.0379271	6.9411887	0.5222947	0.6137994	0.83502	-6.115359
LINC01547	-0.038234	6.9379005	-0.522271	0.6138155	0.83502	-6.115372
FAM74A4	0.0352955	6.9972308	0.5222336	0.6138404	0.83502	-6.115392
GP6	0.0556253	6.9305688	0.5222101	0.613856	0.83502	-6.115405
LINC01124	0.0327646	6.6949007	0.5221254	0.6139127	0.83502	-6.115451
PHACTR2	0.0395829	6.9660436	0.5219046	0.6140605	0.83502	-6.115571
EPHX4	0.0461161	7.0624006	0.5218626	0.6140886	0.83502	-6.115593
ADPRH	-0.034252	7.4587941	-0.521857	0.6140921	0.83502	-6.115596
GCC1	-0.037471	8.417652	-0.521832	0.614109	0.83502	-6.11561
PPP3CA	0.0511958	7.6448014	0.5218149	0.6141205	0.83502	-6.115619
C3orf52	0.0509549	7.4054509	0.5216855	0.6142071	0.83502	-6.115689
SEC14L1	-0.030832	7.7514888	-0.521558	0.6142927	0.83502	-6.115758
PTGES2	0.0477263	10.281931	0.5215537	0.6142953	0.83502	-6.11576
AMD1	0.0408763	10.263141	0.5213192	0.6144523	0.83502	-6.115887
CRLS1	-0.035352	11.29572	-0.521278	0.6144798	0.83502	-6.115909
PLOD2	-0.032399	6.8329971	-0.521251	0.6144981	0.83502	-6.115924
DPY19L3	-0.049896	7.0081277	-0.521212	0.614524	0.83502	-6.115945
LMTK2	-0.043383	7.0493052	-0.52104	0.6146393	0.83506	-6.116038
KCND1	0.0374279	6.9363215	0.5209842	0.6146766	0.83506	-6.116068
GALNT7	0.0373513	6.8528213	0.5209175	0.6147212	0.83506	-6.116104
TCFL5	-0.038951	8.5160619	-0.520719	0.614854	0.83516	-6.116211
FURIN	-0.039024	6.899875	-0.520558	0.6149616	0.83523	-6.116298
LINC01102	0.0410945	7.0870463	0.5203007	0.6151342	0.83539	-6.116437
OPN5	0.0340925	6.8783372	0.5200621	0.6152941	0.83552	-6.116566
FRMD6	-0.039007	7.0469276	-0.519725	0.6155196	0.83575	-6.116748
DMRT2	0.0317367	6.8607493	0.5195424	0.6156423	0.83584	-6.116846
TTC30A	-0.039148	6.9079333	-0.519426	0.6157206	0.83584	-6.116909

C17orf53	0.0472648	8.5904655	0.5193741	0.615755	0.83584	-6.116937
HOXA11	-0.035409	6.7162099	-0.519136	0.6159144	0.83598	-6.117065
GLDC	-0.032974	6.7713111	-0.518862	0.6160982	0.83615	-6.117213
INTS14	-0.038098	7.9002329	-0.518619	0.6162614	0.83629	-6.117344
LIPG	0.0417772	6.6780154	0.5184302	0.6163878	0.83639	-6.117445
DDX56	0.0546649	9.5892379	0.5182143	0.6165325	0.83651	-6.117561
GTF3A	-0.079261	12.638558	-0.517866	0.6167661	0.83668	-6.117748
NDUFA7	-0.059353	10.123511	-0.517857	0.6167721	0.83668	-6.117753
GPBP1L1	-0.034405	8.0655453	-0.517712	0.6168694	0.8367	-6.117831
SCARNA7	-0.041788	7.0808467	-0.517663	0.616902	0.8367	-6.117857
ADPGK	-0.044097	8.9628179	-0.517274	0.6171631	0.83697	-6.118066
DENND1C	0.0503238	7.3735237	0.5171027	0.6172782	0.83699	-6.118158
FAM210B	0.0328506	6.7325827	0.5170875	0.6172884	0.83699	-6.118166
CHAC1	-0.041923	6.9752364	-0.516868	0.6174358	0.83711	-6.118284
TRIM8	-0.0386	9.7096304	-0.516377	0.6177654	0.8374	-6.118548
FCER1G	-0.041556	6.8232459	-0.516315	0.6178067	0.8374	-6.118581
IFT80	-0.050118	7.1401967	-0.516294	0.617821	0.8374	-6.118592
GP9	-0.03495	6.8251185	-0.516026	0.6180008	0.83756	-6.118735
MED22	0.0341873	9.1302574	0.5159369	0.6180607	0.83757	-6.118783
DCANP1	0.0371216	6.867873	0.5157422	0.6181914	0.83767	-6.118887
HECTD2	0.0333214	7.4239543	0.5154848	0.6183642	0.83778	-6.119025
RFXANK	0.0499877	8.6714702	0.515448	0.618389	0.83778	-6.119045
GPM6B	-0.031949	6.7537214	-0.51533	0.6184684	0.83781	-6.119108
ZNF430	0.0502945	9.7690634	0.514938	0.6187315	0.83799	-6.119317
SNHG1	-0.065051	11.029458	-0.514891	0.6187629	0.83799	-6.119342
SLC2A10	0.0330106	6.8519738	0.5148211	0.6188101	0.83799	-6.11938
LOC100132	0.0369366	6.9491037	0.5145617	0.6189843	0.83799	-6.119518
HOXC4	0.0379814	7.9249869	0.5143462	0.6191291	0.83799	-6.119634
WNT6	-0.031353	6.9150285	-0.514274	0.619178	0.83799	-6.119672
ACVR2A	-0.036588	6.8422292	-0.514251	0.6191933	0.83799	-6.119684
PCNX4	0.0389889	8.7574556	0.514216	0.6192166	0.83799	-6.119703
PIP5K1B	-0.050352	6.9824366	-0.514194	0.6192318	0.83799	-6.119715
DLST	0.0398587	8.7423929	0.5141607	0.6192538	0.83799	-6.119733
LONRF3	-0.034446	6.7668639	-0.514081	0.6193073	0.83799	-6.119775
ASB6	0.0425544	7.3018919	0.5140219	0.6193471	0.83799	-6.119807
DTNBP1	-0.040649	7.5951673	-0.514017	0.6193503	0.83799	-6.119809
COPB1	0.0534074	10.586831	0.5138682	0.6194505	0.83805	-6.119889
NADK	0.0411342	8.2392358	0.513632	0.6196092	0.83819	-6.120015
FAM117A	0.0380269	7.652836	0.5131534	0.619931	0.8385	-6.12027
DLG5-AS1	-0.032556	6.7341555	-0.513066	0.61999	0.8385	-6.120316
PSMC1	0.0317479	12.019732	0.5130329	0.6200121	0.8385	-6.120334
CDNF	0.0327374	6.8086493	0.5125429	0.6203416	0.8387	-6.120595
C16orf52	0.0344406	7.6297187	0.5123192	0.6204921	0.8387	-6.120714
MUS81	0.0377857	8.427048	0.5123136	0.6204959	0.8387	-6.120717
QRFPR	-0.072073	9.5601688	-0.512304	0.6205025	0.8387	-6.120722

ZNF688	-0.035195	7.0028652	-0.512246	0.6205411	0.8387	-6.120752
CDK5R1	0.036467	7.2016947	0.5121671	0.6205945	0.8387	-6.120795
PLRG1	-0.040929	10.478334	-0.512148	0.6206076	0.8387	-6.120805
ADAMTSL3	0.0417704	7.1754478	0.5121145	0.6206298	0.8387	-6.120823
GKAP1	-0.05022	6.9990266	-0.512046	0.6206756	0.8387	-6.120859
ROGDI	-0.030984	6.8759953	-0.511884	0.6207848	0.83877	-6.120945
MIR574	0.0498601	7.8575688	0.5117685	0.6208627	0.83879	-6.121006
CES2	0.0440696	8.1490776	0.511373	0.6211289	0.83902	-6.121216
CTNND1	-0.032424	6.9157932	-0.511352	0.6211433	0.83902	-6.121228
ACOT8	-0.03469	7.617711	-0.511096	0.6213153	0.83911	-6.121363
ZXDA	0.0308863	6.7401496	0.5110305	0.6213594	0.83911	-6.121398
TBC1D22B	-0.031653	7.6751129	-0.51099	0.6213865	0.83911	-6.12142
WASHC3	-0.043601	9.5945409	-0.510782	0.6215269	0.83923	-6.12153
SPINT1	-0.030819	6.7740528	-0.510086	0.6219954	0.83971	-6.121899
NUDT14	0.0481633	8.8179586	0.5100739	0.6220036	0.83971	-6.121905
TIPRL	-0.040774	8.7722547	-0.509719	0.6222428	0.83996	-6.122093
RNA5S9	-0.084907	9.3426138	-0.508893	0.6227996	0.84058	-6.12253
WIPI2	-0.041982	7.5652982	-0.50871	0.6229229	0.84058	-6.122627
PCDHB19P	0.0382697	7.411076	0.5087091	0.6229233	0.84058	-6.122627
MIR212	-0.038109	6.9573071	-0.508698	0.6229306	0.84058	-6.122633
RFXAP	0.0374026	8.5726583	0.5084441	0.6231019	0.84067	-6.122767
EDNRB	0.0334279	6.8517673	0.5083973	0.6231335	0.84067	-6.122792
MALT1	-0.051405	8.0835986	-0.50834	0.6231721	0.84067	-6.122822
ESPN	0.0342679	6.8195907	0.508003	0.6233994	0.84081	-6.123
THAP4	0.0556788	7.5250909	0.507848	0.6235039	0.84081	-6.123082
C11orf74	-0.034742	6.7193943	-0.507833	0.623514	0.84081	-6.12309
DRC7	0.0357317	7.0540851	0.5078119	0.6235283	0.84081	-6.123101
DDX3X	0.0378962	11.3308	0.5077552	0.6235665	0.84081	-6.123131
LINS1	-0.037928	7.6245569	-0.507628	0.6236526	0.84081	-6.123198
WASF3	0.0409622	8.4221545	0.5075822	0.6236832	0.84081	-6.123222
RASSF2	-0.04768	9.7255489	-0.507423	0.6237908	0.84088	-6.123306
RPLP2	0.0635057	14.535346	0.5071168	0.6239972	0.84108	-6.123467
SPRED2	-0.035114	6.9141108	-0.50674	0.6242513	0.84128	-6.123666
HES1	0.0608391	7.7277121	0.5067326	0.6242564	0.84128	-6.12367
IRF7	-0.041039	7.3325063	-0.506576	0.6243619	0.84134	-6.123752
DDX6	-0.041458	6.9344243	-0.50636	0.6245078	0.84145	-6.123866
CTSL	-0.033774	6.9426041	-0.506237	0.6245911	0.84145	-6.123931
KIAA0556	0.0349253	7.6906915	0.5061236	0.6246674	0.84145	-6.12399
CHRM2	-0.048807	6.9294257	-0.506114	0.6246741	0.84145	-6.123995
NEFL	-0.031951	6.9268259	-0.505998	0.6247524	0.84148	-6.124056
PDPR	-0.045891	6.9466349	-0.505703	0.6249515	0.84167	-6.124211
MTIF2	0.0365273	10.189933	0.5055164	0.6250774	0.84176	-6.124309
PITX2	-0.034717	6.8553393	-0.505279	0.625238	0.84184	-6.124434
ATP5B	0.0360454	14.411456	0.5052631	0.6252485	0.84184	-6.124442
ARRB1	0.0328225	6.9337335	0.5048596	0.625521	0.84205	-6.124654

TMEM246	0.0306533	6.8137359	0.5048544	0.6255245	0.84205	-6.124657
PILRB	-0.035318	7.3954768	-0.504581	0.6257093	0.84206	-6.1248
ARHGAP17	0.0335628	8.3051387	0.5045555	0.6257265	0.84206	-6.124813
MAGI1	0.0367048	6.8283093	0.5045496	0.6257304	0.84206	-6.124816
ZNF3	0.0398549	7.4781232	0.504505	0.6257606	0.84206	-6.12484
TRAPPC4	-0.035994	10.384658	-0.504156	0.6259963	0.8423	-6.125023
DTNB	-0.047737	6.8694208	-0.503881	0.6261823	0.84243	-6.125167
DOC2A	-0.030976	6.8786844	-0.503843	0.6262077	0.84243	-6.125187
CD28	0.0363562	6.9398961	0.5036778	0.6263196	0.8425	-6.125273
ADGRL1	0.0367526	6.8273838	0.5035668	0.6263947	0.84252	-6.125331
ARRDC4	-0.040277	6.8761802	-0.503376	0.6265235	0.84262	-6.125431
CDO1	0.0306295	6.7786248	0.5032363	0.6266181	0.84267	-6.125504
PALD1	-0.0403	8.3726745	-0.50285	0.6268792	0.84289	-6.125706
SNORA70C	-0.039043	7.1124819	-0.502701	0.6269801	0.84289	-6.125784
HACD2	0.0498419	10.19367	0.5025284	0.6270968	0.84289	-6.125874
KDM5B	-0.050916	7.1321003	-0.502505	0.6271127	0.84289	-6.125886
JAG2	0.0347355	6.8844726	0.5024994	0.6271164	0.84289	-6.125889
ANKRD34A	0.0406739	7.8872223	0.5023896	0.6271907	0.84289	-6.125947
ARIH2OS	-0.035773	6.9186787	-0.50212	0.6273728	0.84289	-6.126087
MSX2	-0.035018	6.8902204	-0.502085	0.6273968	0.84289	-6.126106
MID2	0.0308112	6.8204327	0.5020446	0.6274241	0.84289	-6.126127
AEBP1	-0.037516	6.8260103	-0.502038	0.6274284	0.84289	-6.12613
EME1	0.0511278	7.5405236	0.5020197	0.627441	0.84289	-6.12614
CTAGE6	0.034821	6.7749752	0.5019711	0.6274738	0.84289	-6.126165
RPS10	0.0457042	14.370575	0.501375	0.6278772	0.84318	-6.126476
ZNF235	-0.044758	6.9605373	-0.501149	0.6280301	0.84318	-6.126594
ZIM3	-0.034226	6.947285	-0.501133	0.6280409	0.84318	-6.126602
LIPF	0.0399125	6.9726302	0.5010531	0.6280951	0.84318	-6.126644
CDKAL1	0.041744	7.7465122	0.5010389	0.6281047	0.84318	-6.126651
OR5K4	0.0402568	6.9114698	0.5009808	0.628144	0.84318	-6.126681
ZFYVE9	0.0339359	6.8095814	0.5009334	0.6281761	0.84318	-6.126706
GRPEL2	-0.03427	9.1609864	-0.500875	0.6282154	0.84318	-6.126736
GBGT1	-0.033803	6.8991762	-0.500826	0.6282489	0.84318	-6.126762
RTN4IP1	-0.035236	8.9165673	-0.500754	0.6282976	0.84318	-6.126799
TTC32	0.0422585	8.2334718	0.5006245	0.6283853	0.84318	-6.126867
KCNN2	-0.032826	6.8007668	-0.500556	0.6284315	0.84318	-6.126902
TXNL4A	0.0363936	7.4567881	0.5005442	0.6284396	0.84318	-6.126909
EXOSC4	-0.057691	9.1643145	-0.500377	0.6285531	0.84325	-6.126996
ZNF75A	-0.037659	7.1062687	-0.500198	0.6286738	0.84334	-6.127088
RBBP8NL	0.0487315	6.9985895	0.5000721	0.6287593	0.84337	-6.127154
UBE2D3	-0.031193	10.17402	-0.499945	0.6288451	0.84341	-6.12722
CHRNA6	0.0321331	7.6739892	0.4996823	0.6290234	0.84352	-6.127357
S100A9	-0.038023	6.8690882	-0.499655	0.6290416	0.84352	-6.127371
C11orf53	0.0328946	6.8668425	0.4993657	0.6292379	0.8437	-6.127521
ARFIP1	0.0315975	7.4829613	0.4990671	0.6294402	0.8439	-6.127676

S100A7L2	-0.031479	6.7489323	-0.498775	0.6296382	0.84394	-6.127828
PAK5	0.0336581	6.9844398	0.4987368	0.629664	0.84394	-6.127847
TEAD3	0.0483512	6.8329809	0.4987091	0.6296828	0.84394	-6.127862
TRIM5	-0.029738	7.3267626	-0.498685	0.6296992	0.84394	-6.127874
HEATR1	0.0589883	10.479379	0.4985448	0.6297942	0.84399	-6.127947
VPREB3	-0.062394	10.564419	-0.498347	0.6299281	0.84408	-6.128049
GDF15	-0.031619	6.7036435	-0.49819	0.6300344	0.84408	-6.12813
SLC37A1	-0.032927	7.6026336	-0.498184	0.6300386	0.84408	-6.128134
ARMC5	0.0337723	7.0270474	0.4980486	0.6301306	0.84412	-6.128204
HCN3	-0.034525	7.5726736	-0.497885	0.6302414	0.84412	-6.128289
CEP44	0.0410564	8.1112034	0.4978063	0.6302949	0.84412	-6.128329
FAM27E5	-0.048671	7.1689339	-0.49775	0.6303333	0.84412	-6.128359
SYTL4	0.0354765	6.8275092	0.4977119	0.6303589	0.84412	-6.128378
NOL8	0.0326024	8.9450572	0.4975466	0.630471	0.84414	-6.128464
H1F0	-0.036895	6.779265	-0.497519	0.6304895	0.84414	-6.128478
IL6R	0.0299299	6.7578412	0.4973317	0.6306167	0.84415	-6.128575
WDR60	-0.033182	7.8395494	-0.497282	0.6306503	0.84415	-6.128601
CAMK2N1	-0.032702	6.8132425	-0.497246	0.6306747	0.84415	-6.128619
KRT85	0.0393574	6.925539	0.4971663	0.6307289	0.84415	-6.128661
CD300A	-0.030941	6.7227419	-0.49687	0.63093	0.84434	-6.128814
USP27X-AS1	0.0427091	7.0670717	0.4967256	0.6310279	0.8444	-6.128888
ITPK1-AS1	-0.074534	10.705114	-0.496559	0.6311406	0.84446	-6.128974
NKX2-3	0.031633	6.750515	0.4964885	0.6311888	0.84446	-6.129011
PKDREJ	-0.036362	6.8836429	-0.496265	0.6313405	0.84452	-6.129126
LOC1001305	0.0321535	6.8880518	0.4962539	0.631348	0.84452	-6.129132
MAPK7	0.0332276	7.1602863	0.4959275	0.6315695	0.84474	-6.1293
PARVG	-0.046236	7.8100799	-0.495727	0.6317057	0.84484	-6.129404
C17orf64	0.0373619	6.8838481	0.4955842	0.6318026	0.84489	-6.129477
SLX1A	0.0324227	7.6513409	0.4952478	0.632031	0.845	-6.129651
TRIM21	0.0378449	8.0671741	0.4952467	0.6320317	0.845	-6.129651
DOCK3	-0.051655	7.0782775	-0.495206	0.6320595	0.845	-6.129672
CHKB	-0.033382	7.8182764	-0.494876	0.6322832	0.84523	-6.129842
GPCPD1	0.0715538	8.3345579	0.4947065	0.6323986	0.84527	-6.129929
GPR176	-0.059509	6.9630713	-0.494662	0.6324291	0.84527	-6.129952
B4GAT1	0.0349241	8.2482618	0.4942828	0.6326864	0.84553	-6.130147
SCARNA10	-0.049458	8.5483948	-0.494205	0.632739	0.84553	-6.130187
IQCG	0.0351347	6.9914065	0.4941024	0.632809	0.84554	-6.13024
RGPD2	-0.034154	6.797893	-0.494018	0.6328664	0.84554	-6.130283
B3GALT4	0.0322833	6.7783582	0.4938852	0.6329566	0.84558	-6.130352
WLS	-0.042923	6.9708871	-0.493727	0.633064	0.84565	-6.130433
FAM89B	0.0461499	7.9865813	0.4933513	0.6333194	0.8459	-6.130626
LOC400464	-0.046543	7.5792325	-0.493286	0.6333637	0.8459	-6.130659
LAGE3	0.0591953	10.663579	0.4931198	0.6334768	0.84592	-6.130745
MAGED4B	0.041735	7.3859244	0.4930765	0.6335063	0.84592	-6.130767
AQP1	-0.041459	6.9963193	-0.493005	0.6335549	0.84592	-6.130803

PEX1	-0.040672	7.8800613	-0.492755	0.6337249	0.84607	-6.130932
CD40	0.036372	9.0148811	0.492557	0.6338595	0.84617	-6.131033
HNRNPA1P1	-0.075447	10.510139	-0.49235	0.6339999	0.84628	-6.131139
CCDC88A	-0.068892	8.0465408	-0.492238	0.6340764	0.8463	-6.131196
HAUS4	0.0386809	8.9559061	0.4920546	0.6342012	0.84633	-6.13129
DHPS	-0.035766	9.1671898	-0.492037	0.634213	0.84633	-6.131299
DPY19L2P2	-0.029487	6.8482605	-0.491758	0.6344031	0.84651	-6.131442
LOC390956	0.0526004	8.1117631	0.4916099	0.6345037	0.84657	-6.131518
CDRT4	-0.032739	6.7197891	-0.491448	0.6346138	0.84657	-6.131601
RNASEH2C	0.0345804	7.4773266	0.4913391	0.6346879	0.84657	-6.131656
CCT6P1	0.048773	9.1520999	0.4912101	0.6347757	0.84657	-6.131722
SYNJ1	-0.043139	7.0715425	-0.491157	0.6348116	0.84657	-6.131749
SLC14A1	-0.030087	6.8927373	-0.491128	0.6348319	0.84657	-6.131765
MAMLD1	0.0320539	6.834097	0.4910674	0.6348728	0.84657	-6.131795
NPSR1	0.0419871	6.991724	0.4910125	0.6349102	0.84657	-6.131823
MAN2C1	-0.045299	7.3379921	-0.490814	0.6350454	0.84665	-6.131925
MEAF6	-0.039853	7.5724243	-0.490754	0.6350862	0.84665	-6.131955
MTMR11	-0.030701	6.8966615	-0.490561	0.6352178	0.84674	-6.132054
HIST2H3C	-0.047211	6.785254	-0.490479	0.6352731	0.84674	-6.132096
TRAF1	0.0311103	8.4229213	0.4902302	0.6354427	0.84689	-6.132223
CBFA2T2	0.034907	7.1582851	0.4897671	0.6357581	0.84723	-6.132459
RASGRP2	0.0389325	7.799763	0.4895702	0.6358921	0.84733	-6.132559
IK	0.0532157	9.3901392	0.4893151	0.6360659	0.84747	-6.132689
TNF	-0.036726	8.6359966	-0.489184	0.6361554	0.84747	-6.132756
PXYLP1	-0.030126	6.762652	-0.489099	0.6362132	0.84747	-6.132799
FGFR1	0.0310476	6.8241382	0.4890803	0.6362258	0.84747	-6.132809
TDRG1	-0.03839	6.8693151	-0.488821	0.6364028	0.84759	-6.132941
AK4	-0.032722	9.6591955	-0.488773	0.6364353	0.84759	-6.132965
ARMCX4	0.0323375	6.836008	0.4886051	0.6365497	0.84764	-6.133051
PODXL2	0.0314982	6.7783865	0.4885398	0.6365941	0.84764	-6.133084
ATP6V0A1	-0.042624	9.5386166	-0.488387	0.6366983	0.84764	-6.133161
ARMCX5	-0.037835	6.8475861	-0.48838	0.636703	0.84764	-6.133165
3-Mar	0.0308109	7.4408902	0.4882203	0.6368119	0.84768	-6.133246
RPA3	0.0470469	11.753332	0.4880023	0.6369605	0.84768	-6.133357
LOC728073	-0.047536	6.9055353	-0.487939	0.6370035	0.84768	-6.133389
PCDH17	0.0294942	6.8223776	0.4879138	0.6370208	0.84768	-6.133402
CHIAP2	-0.049475	6.7895913	-0.487882	0.6370425	0.84768	-6.133418
LRRC26	0.0432825	7.2459034	0.4878225	0.6370831	0.84768	-6.133448
PSMB2	0.0378797	11.76908	0.4873603	0.6373982	0.84794	-6.133683
MYL5	-0.034924	8.6335357	-0.487349	0.6374062	0.84794	-6.133689
L3MBTL2	-0.033296	9.0475688	-0.487229	0.6374875	0.84794	-6.133749
DDX19B	-0.032337	8.7901566	-0.4872	0.6375073	0.84794	-6.133764
TCEANC2	-0.053249	7.3981693	-0.486821	0.6377661	0.84814	-6.133956
RNF112	-0.038255	7.1216874	-0.486807	0.6377757	0.84814	-6.133964
RAB37	-0.031729	6.8277943	-0.486605	0.637913	0.84815	-6.134066

RNASE6	-0.032307	6.8832425	-0.48657	0.6379369	0.84815	-6.134083
CCDC28A	0.0418741	9.0804283	0.4864099	0.6380465	0.84815	-6.134165
UBE2B	-0.03115	7.0754889	-0.486312	0.6381132	0.84815	-6.134214
APRT	0.0447569	10.167761	0.4862803	0.6381348	0.84815	-6.13423
GTF2F2	0.0377306	10.291888	0.48608	0.6382715	0.84815	-6.134332
RTF1	0.0468553	7.4290757	0.4860006	0.6383257	0.84815	-6.134372
LINC00323	0.106459	7.2172374	0.485937	0.6383691	0.84815	-6.134404
ATG101	0.0516215	9.1789472	0.4857725	0.6384813	0.84815	-6.134487
POLR2I	-0.062573	11.054078	-0.485682	0.6385431	0.84815	-6.134533
SCAND1	0.0513336	8.5343636	0.4856474	0.6385667	0.84815	-6.13455
ADAM21P1	-0.043346	6.7883694	-0.48561	0.6385923	0.84815	-6.134569
OR8H1	-0.033501	6.8486265	-0.485462	0.6386932	0.84815	-6.134644
SPC25	0.0558001	7.8132846	0.4854053	0.638732	0.84815	-6.134673
EGFEM1P	0.0357974	7.1696734	0.485322	0.6387888	0.84815	-6.134715
KIF2C	0.0475937	9.1273638	0.4853014	0.6388029	0.84815	-6.134725
ZNF174	-0.032956	7.2108593	-0.48522	0.6388584	0.84815	-6.134766
SYCE1	0.043585	7.1039022	0.4851745	0.6388895	0.84815	-6.134789
HLX	0.0347943	6.7835495	0.4851042	0.6389375	0.84815	-6.134825
KITLG	0.0301769	6.7864414	0.4850937	0.6389447	0.84815	-6.13483
FAM155A	-0.035696	6.838913	-0.484991	0.6390148	0.84816	-6.134882
BTAF1	-0.071993	10.019003	-0.484878	0.6390919	0.84819	-6.134939
RPL22	0.0582372	12.380673	0.4846545	0.6392446	0.84832	-6.135052
SCML2	-0.031688	6.9029824	-0.484363	0.6394436	0.84844	-6.135199
RNFT1	0.0469118	7.8220062	0.4843176	0.6394746	0.84844	-6.135222
COX6B2	-0.033987	6.8454986	-0.484183	0.6395666	0.84844	-6.13529
OR5D18	0.0421316	6.9523019	0.4840639	0.6396479	0.84844	-6.13535
PARTICL	0.0390524	7.1518244	0.4840075	0.6396865	0.84844	-6.135378
ZPR1	-0.041115	9.1257225	-0.483943	0.6397303	0.84844	-6.135411
EXTL2	-0.052562	8.1369019	-0.483837	0.6398026	0.84844	-6.135464
TFG	-0.0304	8.6013837	-0.483793	0.6398331	0.84844	-6.135487
PMEPA1	0.032849	6.8799315	0.4837461	0.639865	0.84844	-6.13551
EYA2	0.0315284	6.850013	0.4835727	0.6399835	0.84852	-6.135597
PMS2	-0.034619	8.0988984	-0.483412	0.6400936	0.84852	-6.135679
EFHB	-0.057277	7.4611705	-0.483404	0.6400991	0.84852	-6.135683
KIAA0319L	0.0304417	7.194649	0.482888	0.6404514	0.84886	-6.135942
FAM175A	0.040953	8.180392	0.4828673	0.6404655	0.84886	-6.135952
ERBB3	-0.030066	6.8734186	-0.482717	0.6405683	0.84886	-6.136028
CCNE1	-0.030987	7.8845096	-0.482683	0.6405917	0.84886	-6.136045
GCHFR	0.0387001	9.425741	0.4826025	0.6406466	0.84886	-6.136086
DIP2A	-0.030184	7.0449481	-0.482385	0.6407951	0.84896	-6.136195
NAP1L1	-0.044117	9.6884731	-0.482327	0.6408351	0.84896	-6.136224
PUS3	-0.042442	8.5610475	-0.482194	0.6409258	0.849	-6.136291
ATP9A	-0.03723	6.8076102	-0.481886	0.6411362	0.84917	-6.136445
MBOAT1	0.0302451	6.8988822	0.4818364	0.6411704	0.84917	-6.13647
NUF2	-0.0326	7.9316767	-0.481657	0.6412932	0.84918	-6.13656

SLC24A1	-0.035486	6.8194877	-0.481549	0.6413672	0.84918	-6.136615
ITGAX	0.0386542	6.728981	0.4814918	0.641406	0.84918	-6.136643
HPSE	-0.031138	6.8733524	-0.481489	0.6414079	0.84918	-6.136645
DDX27	-0.049285	8.6372174	-0.481014	0.6417332	0.84953	-6.136883
LY75	0.0341001	6.8670141	0.4808317	0.6418576	0.84962	-6.136974
CCL15	0.0339507	6.9695476	0.4806484	0.641983	0.84971	-6.137066
DAAM2	-0.039854	7.0080845	-0.480353	0.6421852	0.8499	-6.137214
TEKT4P2	0.0351809	7.1053961	0.4802723	0.6422404	0.8499	-6.137254
HPCAL4	-0.034459	6.7651679	-0.480116	0.6423477	0.84996	-6.137333
POLN	-0.031113	6.8310478	-0.479918	0.6424832	0.85006	-6.137432
LBH	-0.041361	7.4139763	-0.479329	0.6428861	0.85052	-6.137726
LOC1001281	-0.030901	6.8685957	-0.478881	0.6431931	0.85084	-6.137949
DHRS4	0.0345424	8.2759988	0.4788048	0.6432452	0.85084	-6.137987
ZNF687	0.0512573	6.9419201	0.4785344	0.6434304	0.85101	-6.138122
TOPORS	-0.029121	7.5298697	-0.478403	0.6435201	0.85105	-6.138187
HMGB3	-0.043537	7.574894	-0.47789	0.643872	0.85144	-6.138443
GPR37	-0.038883	6.9867607	-0.477774	0.6439516	0.85144	-6.138501
LOC1001316	-0.032707	6.8940212	-0.477711	0.6439944	0.85144	-6.138532
GK	0.0368748	7.8703177	0.4773278	0.6442573	0.85172	-6.138723
C1S	-0.030117	6.8717952	-0.477173	0.6443636	0.85177	-6.1388
MOCS1	0.0288978	6.8573423	0.477096	0.6444161	0.85177	-6.138838
MRPL39	0.0382817	9.1211257	0.4769828	0.6444937	0.8518	-6.138895
DISP2	0.0343255	6.835697	0.4768314	0.6445976	0.85182	-6.13897
CDRT1	-0.036401	6.9098188	-0.476786	0.6446289	0.85182	-6.138993
SSC4D	0.0324855	6.9757415	0.4762782	0.6449769	0.85215	-6.139245
HABP4	-0.031441	7.8703828	-0.476254	0.6449934	0.85215	-6.139257
CDH26	0.0372591	6.882515	0.4761377	0.6450733	0.85218	-6.139314
AMY1A	-0.062521	10.086254	-0.47561	0.6454355	0.85258	-6.139576
FAM193B	0.0511901	7.2631152	0.4751471	0.6457529	0.85261	-6.139806
CYP27A1	0.0461286	6.9889282	0.4750724	0.6458042	0.85261	-6.139843
SELENOW	-0.029392	7.8799847	-0.474987	0.645863	0.85261	-6.139885
DDTL	0.0338405	7.5295201	0.4749133	0.6459133	0.85261	-6.139921
NR2E1	0.0354303	7.0465024	0.4748807	0.6459357	0.85261	-6.139937
ABHD5	-0.057847	7.4362825	-0.474768	0.646013	0.85261	-6.139993
MICALL2	-0.031329	6.89226	-0.474705	0.6460564	0.85261	-6.140024
TMPRSS12	0.0378785	7.1695159	0.4747017	0.6460586	0.85261	-6.140026
SNX4	-0.075704	9.1189135	-0.474654	0.6460913	0.85261	-6.14005
NR4A2	-0.030291	6.8490867	-0.474638	0.6461021	0.85261	-6.140057
HS6ST2-AS1	0.0340959	6.9880921	0.4746312	0.646107	0.85261	-6.140061
PPP1CC	-0.053865	12.771564	-0.474552	0.6461612	0.85261	-6.1401
RAF1	0.0380762	8.9421154	0.4742602	0.6463617	0.85276	-6.140244
GNGT1	0.0288936	6.7873979	0.4742167	0.6463915	0.85276	-6.140266
FAM209B	0.032504	6.9676522	0.4741047	0.6464684	0.85277	-6.140321
ANTXR2	-0.028002	6.8203658	-0.474038	0.6465144	0.85277	-6.140354
SLC38A5	0.0394322	8.597141	0.4738422	0.6466486	0.85287	-6.140451

DHRS4L2	0.0318078	7.5541555	0.4736224	0.6467996	0.85288	-6.140559
PQLC2	-0.034706	6.8589862	-0.473607	0.6468104	0.85288	-6.140567
MAP1LC3A	0.0369302	6.8090603	0.4735747	0.6468324	0.85288	-6.140583
TCP11L1	-0.04848	7.9562267	-0.473452	0.6469163	0.8529	-6.140643
EPB41L5	0.0322462	7.4347937	0.4733845	0.646963	0.8529	-6.140677
C9orf24	0.0300115	6.8248523	0.4732803	0.6470346	0.85291	-6.140728
MIR199A2	0.0385316	6.805368	0.4731304	0.6471375	0.85297	-6.140802
RSBN1L	0.0443248	8.6688694	0.4729598	0.6472548	0.85305	-6.140886
LOC286083	-0.036627	6.8549209	-0.472844	0.6473346	0.85308	-6.140944
ZNF616	0.0368791	7.2783346	0.4727146	0.6474232	0.85312	-6.141007
TRIM68	-0.029225	6.7274246	-0.472076	0.647862	0.85347	-6.141322
EMX2	-0.038367	6.9999546	-0.472033	0.6478914	0.85347	-6.141343
IRAK3	0.0320159	6.8637206	0.4718726	0.6480019	0.85347	-6.141422
ICAM4	0.034557	6.9225379	0.4718329	0.6480291	0.85347	-6.141441
FMNL3	0.0356766	7.2156799	0.4717207	0.6481063	0.85347	-6.141497
ZBTB5	-0.033306	7.9650144	-0.471562	0.6482153	0.85347	-6.141575
HBS1L	0.031053	6.9358336	0.4715128	0.6482492	0.85347	-6.141599
ANO10	-0.035973	7.0847766	-0.471476	0.6482745	0.85347	-6.141617
IL36RN	-0.034826	6.7964841	-0.471397	0.6483288	0.85347	-6.141656
SLC24A2	0.0391924	6.9446452	0.4713849	0.6483371	0.85347	-6.141662
P3H1	0.0403764	8.2810098	0.4713818	0.6483393	0.85347	-6.141663
CSGALNACT	-0.039405	7.0806905	-0.471308	0.6483898	0.85347	-6.141699
DRD2	-0.037187	6.7968313	-0.471103	0.6485313	0.85358	-6.141801
TMEM63A	-0.04403	7.0174411	-0.470767	0.6487623	0.8538	-6.141965
RPL7A	0.0413016	12.712363	0.4705725	0.6488958	0.85381	-6.142061
NT5C3A	0.0317865	9.7581497	0.4705297	0.6489253	0.85381	-6.142082
JMJD1C	0.0348502	7.9253928	0.4703262	0.6490653	0.85381	-6.142182
RASA4CP	0.0364583	7.7903618	0.4701861	0.6491617	0.85381	-6.14225
WBP1L	-0.030218	7.7515218	-0.470176	0.6491689	0.85381	-6.142256
AIMP2	-0.054909	11.726293	-0.470109	0.6492147	0.85381	-6.142288
FAM110C	-0.031025	6.8977171	-0.470106	0.6492166	0.85381	-6.142289
CHIC2	-0.039182	9.3412924	-0.470075	0.6492378	0.85381	-6.142305
SNORD14D	-0.032045	7.6041154	-0.46963	0.6495443	0.85402	-6.142523
FBN2	-0.031479	6.9647964	-0.46963	0.6495443	0.85402	-6.142523
GNB5	0.037239	7.4595044	0.469587	0.6495739	0.85402	-6.142544
ZNF691	0.0344714	7.0758395	0.4694515	0.6496671	0.85407	-6.14261
REEP6	-0.034348	7.4686481	-0.468654	0.6502158	0.85465	-6.143
CLDN8	0.043313	6.867532	0.4686411	0.650225	0.85465	-6.143007
CPPED1	0.0291095	6.846243	0.4684298	0.6503705	0.85465	-6.14311
MIER3	-0.036296	6.9874769	-0.468404	0.6503885	0.85465	-6.143123
NOP2	-0.035157	9.3604473	-0.468388	0.6503991	0.85465	-6.14313
TMTC4	0.0282605	7.2312869	0.4682272	0.65051	0.85467	-6.143209
ANAPC16	0.0377075	8.7394692	0.4681972	0.6505307	0.85467	-6.143224
CACNB1	0.0504222	6.959228	0.4679854	0.6506766	0.85478	-6.143327
ITPKB	0.0342652	7.8441593	0.4678229	0.6507885	0.85485	-6.143406

TNNT1	-0.036277	6.8539818	-0.467634	0.6509184	0.85488	-6.143498
MNS1	-0.032787	6.893803	-0.46757	0.6509628	0.85488	-6.14353
MRPS26	0.0430539	10.600695	0.4675376	0.650985	0.85488	-6.143546
ZNF585A	0.0375341	7.6931783	0.4672724	0.6511677	0.85504	-6.143675
ACP2	0.0335488	7.2876018	0.4671435	0.6512565	0.85508	-6.143738
LRRC37A2	-0.031053	6.9251045	-0.466667	0.6515846	0.8553	-6.14397
CTSV	-0.036326	7.2369564	-0.466605	0.6516278	0.8553	-6.144
DUSP27	0.0356031	7.2529496	0.4665687	0.6516526	0.8553	-6.144018
SPEF2	-0.030164	6.8684998	-0.466521	0.6516856	0.8553	-6.144041
LRCH2	0.0314135	6.8841014	0.466313	0.6518289	0.8553	-6.144142
TMEM69	0.0362041	9.7526379	0.466251	0.6518717	0.8553	-6.144172
MBD3	0.0401714	8.2038075	0.4661726	0.6519257	0.8553	-6.14421
MED19	0.0556571	9.0747695	0.4661501	0.6519412	0.8553	-6.144221
SAMD9	0.0485933	6.9849218	0.4660451	0.6520136	0.8553	-6.144272
NAB1	-0.037669	8.2878233	-0.466018	0.6520322	0.8553	-6.144285
STEAP1	-0.031524	6.9594363	-0.465938	0.6520871	0.8553	-6.144324
STAP2	-0.030182	6.8288072	-0.465882	0.6521259	0.8553	-6.144352
KIR2DS3	0.0564531	6.9454804	0.4656343	0.6522968	0.85545	-6.144472
UTP23	0.0373697	7.4596614	0.465484	0.6524005	0.85545	-6.144545
TRIM35	-0.04196	6.9857148	-0.465456	0.6524195	0.85545	-6.144558
EGLN2	0.033042	9.3930245	0.464932	0.6527812	0.85576	-6.144813
JMJD7	-0.03838	6.8847704	-0.464811	0.6528645	0.85576	-6.144872
VSTM4	0.0336784	6.8540446	0.4647984	0.6528734	0.85576	-6.144878
ZNF711	0.03225	7.234946	0.4647758	0.6528889	0.85576	-6.144889
4-Sep	-0.030118	6.9897515	-0.464504	0.6530765	0.85582	-6.145021
LRRC3DN	0.032143	6.7631724	0.4644594	0.6531072	0.85582	-6.145042
TOX4	-0.0395	7.9756572	-0.464424	0.6531318	0.85582	-6.145059
AHRR	-0.029246	6.7434858	-0.464369	0.6531694	0.85582	-6.145086
ARRB2	0.0325242	7.1040171	0.464214	0.6532766	0.85589	-6.145161
LINC00543	-0.034612	6.7894666	-0.463889	0.6535009	0.8561	-6.145318
CREB3L4	0.0427688	6.9152874	0.4637597	0.6535901	0.85614	-6.145381
HSD17B14	-0.036582	6.8707385	-0.463589	0.6537077	0.85622	-6.145463
MFSD14C	0.0746981	10.19161	0.4632353	0.6539521	0.85631	-6.145635
SLC6A2	0.0382976	6.9198968	0.463228	0.6539572	0.85631	-6.145638
ETV4	0.0330121	6.8540609	0.4632197	0.6539629	0.85631	-6.145642
AAR2	0.0379554	9.0887706	0.4631543	0.654008	0.85631	-6.145674
SSTR1	0.0467003	7.0102472	0.4630308	0.6540933	0.85634	-6.145734
ZBTB7B	-0.042397	7.1087946	-0.462871	0.6542034	0.85641	-6.145811
MYBL2	0.048663	7.340343	0.462683	0.6543335	0.85645	-6.145902
ERRFI1	0.0306155	6.6810774	0.4626554	0.6543526	0.85645	-6.145915
FAM216A	0.0362999	11.173181	0.4624206	0.6545147	0.85652	-6.146028
VSTM2A	-0.029578	6.789511	-0.462339	0.6545708	0.85652	-6.146067
MEI1	-0.028372	6.8490461	-0.462328	0.6545786	0.85652	-6.146073
ZNF397	-0.029791	6.8960833	-0.46167	0.6550335	0.85694	-6.14639
SLCO4A1-AS	-0.032898	6.8255626	-0.461636	0.6550567	0.85694	-6.146407

CXCL13	0.041766	7.0367638	0.4615966	0.6550839	0.85694	-6.146426
ZBTB9	0.033931	8.6671771	0.461515	0.6551403	0.85694	-6.146465
NEK1	0.0485035	7.5890827	0.4610873	0.6554359	0.85715	-6.146671
GAL	0.0333804	6.7476518	0.4610647	0.6554515	0.85715	-6.146682
LONP2	0.027584	8.0800358	0.4610283	0.6554767	0.85715	-6.146699
ZWILCH	0.0278825	8.4839252	0.4609001	0.6555653	0.85719	-6.146761
CHCHD6	0.0370523	8.6165206	0.4607354	0.6556792	0.85726	-6.14684
OR6Y1	-0.028005	6.9119725	-0.460448	0.6558779	0.85739	-6.146978
PPM1N	0.0358154	6.9555226	0.4603765	0.6559273	0.85739	-6.147013
MGAM	0.0495369	7.0498909	0.4600985	0.6561195	0.85739	-6.147146
ATP6V0D2	-0.058807	7.0899188	-0.460057	0.6561483	0.85739	-6.147166
IFITM2	-0.035798	8.0634357	-0.460037	0.6561624	0.85739	-6.147176
PRPF38A	-0.028597	8.4042774	-0.460018	0.6561752	0.85739	-6.147185
ATR	-0.031618	7.0358223	-0.459997	0.6561893	0.85739	-6.147195
RTL8A	-0.027951	6.7392267	-0.459787	0.6563348	0.85743	-6.147296
ZNF671	-0.035803	7.7981759	-0.45969	0.6564021	0.85743	-6.147342
SOAT1	0.0299151	7.447841	0.4596766	0.6564112	0.85743	-6.147349
ATP5A1	0.0359172	13.698729	0.4596188	0.6564513	0.85743	-6.147377
AGR3	0.0349553	6.9844269	0.4594977	0.656535	0.85746	-6.147435
FAH	-0.029198	6.7803042	-0.459396	0.6566052	0.85746	-6.147483
PTPRG	-0.03181	6.8100008	-0.459324	0.6566549	0.85746	-6.147518
FGF21	0.0314539	6.7828116	0.4588154	0.657007	0.85781	-6.147762
CCR9	0.0310018	6.9317112	0.4586115	0.6571481	0.85781	-6.147859
TRPC2	0.0324507	6.7746113	0.4585876	0.6571647	0.85781	-6.147871
TCAF1	-0.042468	9.8260067	-0.458587	0.657165	0.85781	-6.147871
BRD8	-0.038927	8.6955385	-0.458514	0.6572158	0.85781	-6.147906
AMBRA1	0.0425101	6.9996328	0.4581202	0.6574882	0.85809	-6.148095
BMF	-0.033767	7.1591243	-0.457901	0.6576396	0.85814	-6.148199
ADD2	-0.028792	6.7907328	-0.457894	0.6576447	0.85814	-6.148203
PRR4	0.0386083	7.3807713	0.4576038	0.6578456	0.85832	-6.148341
C20orf197	0.0305783	6.7512303	0.4575265	0.6578991	0.85832	-6.148378
ENTPD8	-0.038892	6.8254372	-0.457334	0.6580323	0.85838	-6.14847
RARRES1	0.0277986	6.8522853	0.4572962	0.6580586	0.85838	-6.148488
CBWD1	-0.037416	7.3153601	-0.456946	0.6583013	0.85862	-6.148656
SRP9	-0.052315	10.497442	-0.456739	0.6584448	0.85865	-6.148755
TRIM25	0.0323441	8.3426689	0.4567348	0.6584474	0.85865	-6.148756
PRDM1	0.0319983	8.1373831	0.4565717	0.6585604	0.85872	-6.148834
PDGFRL	-0.031173	6.8405173	-0.456398	0.6586805	0.8588	-6.148917
TBC1D28	-0.035825	6.8457164	-0.455745	0.6591332	0.85932	-6.149228
TEFM	-0.050253	9.088806	-0.455632	0.6592117	0.85934	-6.149282
FSIP1	0.0311211	7.0947117	0.4552813	0.6594545	0.85951	-6.149449
RNF149	-0.038584	8.6163983	-0.455281	0.6594546	0.85951	-6.149449
ZNF615	-0.030809	6.9408857	-0.455183	0.6595226	0.85952	-6.149495
PRDM2	-0.028004	6.9605972	-0.454989	0.6596571	0.85962	-6.149587
KNCN	0.0326224	7.1419074	0.4548524	0.6597518	0.85966	-6.149652

VCX2	0.0330813	6.9683282	0.4545985	0.6599279	0.85982	-6.149773
EXTL3	0.0366073	7.3369833	0.4543374	0.660109	0.85982	-6.149897
RPS26P25	-0.036441	14.234362	-0.454314	0.660125	0.85982	-6.149908
TSPY1	-0.035124	6.9899843	-0.454124	0.6602571	0.85982	-6.149998
ZDHHC5	-0.056073	9.0340899	-0.454029	0.6603226	0.85982	-6.150043
SLC46A2	0.0294171	6.8766041	0.4539368	0.6603867	0.85982	-6.150087
LINC00461	-0.036065	6.7717481	-0.453822	0.6604664	0.85982	-6.150141
SIAH3	-0.031949	6.9675445	-0.453804	0.6604792	0.85982	-6.15015
DSCR3	-0.046827	8.7981987	-0.453716	0.6605396	0.85982	-6.150191
CDCA3	-0.046462	9.4169251	-0.453715	0.6605403	0.85982	-6.150192
ERV3-1	0.0332951	6.767127	0.4536478	0.6605872	0.85982	-6.150224
LCA5L	0.0349457	6.8116	0.4536144	0.6606104	0.85982	-6.15024
CD209	-0.029603	6.7620824	-0.453573	0.6606392	0.85982	-6.15026
NAA16	0.0294524	7.670682	0.4533437	0.6607982	0.85995	-6.150368
STARD13	0.0293638	6.8242422	0.4532431	0.660868	0.85997	-6.150416
OST4	0.038838	12.1189	0.4531477	0.6609342	0.85997	-6.150461
ABHD11	0.0312975	7.3756302	0.4530385	0.6610099	0.86	-6.150513
FAM86C2P	-0.031824	8.6072896	-0.452714	0.6612349	0.86014	-6.150666
FAM76B	-0.036433	8.1870677	-0.452707	0.6612399	0.86014	-6.150669
ITPR3	0.03721	11.068006	0.4525371	0.6613579	0.86022	-6.15075
TYW5	-0.029521	6.9199574	-0.452329	0.6615023	0.86033	-6.150848
CGB3	-0.038609	6.8920096	-0.452229	0.6615718	0.86034	-6.150895
PIGL	-0.030354	6.8996191	-0.452093	0.6616663	0.86039	-6.15096
ADORA3	-0.027707	6.8190234	-0.451829	0.6618493	0.86055	-6.151084
FGFR4	0.0421867	7.2773677	0.4514752	0.6620951	0.86079	-6.151251
PRPS2	-0.04352	9.8858823	-0.451294	0.6622207	0.86088	-6.151336
DCTN4	-0.032601	7.9737929	-0.450913	0.6624857	0.86115	-6.151516
RNF14	0.0301471	8.5712961	0.4501858	0.6629909	0.86171	-6.151859
TMX4	0.0324497	8.303683	0.4500638	0.6630756	0.86171	-6.151916
GSG1	-0.033867	6.8711271	-0.450039	0.6630929	0.86171	-6.151928
SLC39A14	0.0437423	8.3713458	0.4498345	0.663235	0.8618	-6.152024
PCGF1	-0.04338	8.240701	-0.449766	0.6632825	0.8618	-6.152056
ARHGEF7	0.037789	8.7205967	0.4493805	0.6635505	0.86205	-6.152237
FAF2	-0.040471	10.013269	-0.44932	0.6635926	0.86205	-6.152266
PLAUR	0.0265739	6.7761286	0.4491191	0.6637322	0.86213	-6.15236
KANK2	0.0499809	7.6770838	0.4490386	0.6637883	0.86213	-6.152398
GALNT12	0.0315342	7.5515183	0.4488748	0.6639021	0.86213	-6.152475
SOD2	0.0301001	9.3118212	0.4488632	0.6639102	0.86213	-6.15248
GPC4	-0.029829	6.7551832	-0.448801	0.6639532	0.86213	-6.152509
EML1	0.0293251	6.7982512	0.4483732	0.664251	0.86244	-6.15271
SULT6B1	0.0338912	6.9086823	0.4476478	0.6647556	0.86293	-6.153049
GOLGA8F	-0.028026	6.7890761	-0.447516	0.6648474	0.86293	-6.153111
CLPB	0.0449102	7.0214858	0.4475114	0.6648504	0.86293	-6.153113
HNRNPF	-0.04806	7.6158059	-0.4475	0.6648585	0.86293	-6.153119
TSPAN7	-0.029592	6.7521466	-0.447076	0.6651533	0.86317	-6.153317

UMODL1-AS	-0.028513	6.9460514	-0.447061	0.6651637	0.86317	-6.153324
ESR1	-0.034353	6.8586252	-0.446952	0.66524	0.86318	-6.153375
TP53TG3	0.0289621	6.8007737	0.4468476	0.6653124	0.86318	-6.153424
KAZALD1	-0.031459	6.8993402	-0.446703	0.6654127	0.86318	-6.153491
DHRS9	-0.029053	6.7873637	-0.446522	0.665539	0.86318	-6.153576
ZFP82	-0.034604	7.2715245	-0.44646	0.6655825	0.86318	-6.153605
MIER1	0.0321539	7.7361363	0.4464204	0.6656098	0.86318	-6.153623
MIR519D	0.0297467	6.7978917	0.4463998	0.6656241	0.86318	-6.153633
ATAD3B	0.0565831	7.8072216	0.4462395	0.6657357	0.86318	-6.153707
SI	0.0351652	7.0051798	0.4462318	0.665741	0.86318	-6.153711
FANCA	0.0269271	7.0221158	0.4462047	0.6657599	0.86318	-6.153724
ILK	-0.027873	8.2978198	-0.44603	0.6658817	0.86326	-6.153805
SLC13A2	0.0448095	6.901403	0.4458836	0.6659835	0.86331	-6.153873
MAP2	0.0315378	6.934979	0.4457356	0.6660866	0.86331	-6.153942
FER	0.0379988	7.2757412	0.4457148	0.6661011	0.86331	-6.153952
SARDH	0.0318583	6.7665994	0.4455647	0.6662055	0.86337	-6.154022
SOSTDC1	-0.041926	6.843043	-0.445277	0.6664059	0.86349	-6.154156
KDSR	0.0276895	8.4617265	0.4452592	0.6664183	0.86349	-6.154164
FBXO24	0.0312164	6.8695725	0.4449872	0.6666078	0.86359	-6.154291
ACAD10	-0.030413	7.7880007	-0.444986	0.6666085	0.86359	-6.154291
PELI3	-0.029389	6.7817483	-0.44487	0.6666894	0.86361	-6.154345
SPTSSA	-0.036715	8.7504379	-0.444693	0.6668128	0.8637	-6.154428
CLASP2	0.0367141	8.3483027	0.4445686	0.6668995	0.86372	-6.154485
ASXL1	0.0362908	8.9261214	0.4444857	0.6669572	0.86372	-6.154524
ARHGDIG	-0.026673	6.9823617	-0.444411	0.667009	0.86372	-6.154559
C11orf63	0.0321286	7.1348342	0.4443134	0.6670773	0.86373	-6.154604
TRPV4	0.0458548	7.0076024	0.4440431	0.6672657	0.86376	-6.15473
RASL11A	-0.031394	7.1077908	-0.44402	0.6672815	0.86376	-6.15474
EPHA1	0.0364239	6.8395563	0.4439763	0.6673123	0.86376	-6.154761
RAB11FIP5	0.0293341	6.7951709	0.4439357	0.6673405	0.86376	-6.154779
ATG4D	0.0296222	7.4529924	0.4438453	0.6674035	0.86376	-6.154821
CARD10	0.0330207	6.8218911	0.4436991	0.6675054	0.86376	-6.154889
LOC731075	-0.036486	6.9364928	-0.443688	0.6675129	0.86376	-6.154894
BTBD7	0.031228	7.5587639	0.4432334	0.6678301	0.86391	-6.155105
GIN1	-0.028387	7.4388418	-0.443104	0.6679204	0.86391	-6.155165
ASAP1-IT1	-0.029256	6.8931475	-0.443071	0.6679436	0.86391	-6.155181
VANGL1	-0.028306	6.7736277	-0.442988	0.6680012	0.86391	-6.155219
PBK	0.0573134	8.6779275	0.442986	0.6680026	0.86391	-6.15522
UNC5B	-0.038258	6.8192504	-0.442906	0.6680587	0.86391	-6.155257
KCTD8	-0.036081	6.881793	-0.442857	0.6680926	0.86391	-6.15528
MAPK14	-0.035942	7.0758151	-0.442838	0.6681061	0.86391	-6.155289
OXCT2	0.0272482	6.8284912	0.4425969	0.6682739	0.86401	-6.1554
TAF5L	-0.03458	7.2653169	-0.442559	0.6683006	0.86401	-6.155418
GALNT16	0.0302022	6.8435547	0.4423789	0.668426	0.8641	-6.155501
MPV17L2	0.0348664	7.9965628	0.4419528	0.6687232	0.8641	-6.155698

DPH7	0.0413163	7.4348445	0.4419141	0.6687503	0.8641	-6.155716
DDX51	-0.04053	8.9820947	-0.441873	0.6687787	0.8641	-6.155735
URI1	0.0386736	10.411835	0.4418551	0.6687914	0.8641	-6.155743
C18orf12	0.0332521	6.9420511	0.441809	0.6688236	0.8641	-6.155764
SMYD5	0.0371208	7.0962831	0.4417461	0.6688674	0.8641	-6.155793
CNTNAP5	-0.031975	6.959496	-0.441723	0.6688835	0.8641	-6.155804
ATP6V0E1	-0.03135	10.777311	-0.441671	0.6689197	0.8641	-6.155828
ARL17A	-0.037943	7.1997595	-0.441615	0.6689589	0.8641	-6.155854
RSPO2	0.0464854	6.9897544	0.4415278	0.6690198	0.8641	-6.155894
RNU2-1	-0.038114	6.921586	-0.441349	0.6691447	0.86419	-6.155977
RNF141	0.0492974	7.7029537	0.4411265	0.6692998	0.86431	-6.15608
TMX2	-0.033141	10.859698	-0.440944	0.6694273	0.86432	-6.156164
KBTBD11	-0.029419	6.6662783	-0.440941	0.6694297	0.86432	-6.156165
AP2S1	0.0277023	11.843629	0.4407507	0.6695621	0.86436	-6.156253
ATP2C1	-0.027344	8.0122121	-0.440729	0.6695774	0.86436	-6.156263
UNCX	0.0273334	6.839403	0.4406435	0.669637	0.86436	-6.156302
LINC00570	-0.044373	6.9814719	-0.440462	0.6697635	0.86445	-6.156386
RAB24	-0.029438	8.1767199	-0.440374	0.6698251	0.86445	-6.156426
UBE2V1	0.0278541	7.232131	0.4400225	0.6700706	0.86459	-6.156588
ACYP1	-0.028572	8.5142887	-0.439879	0.6701708	0.86459	-6.156654
YWHAB	0.0298057	10.755828	0.4398665	0.6701795	0.86459	-6.15666
DPH1	-0.035479	6.956734	-0.439822	0.6702108	0.86459	-6.156681
BATF3	0.0273612	6.7880178	0.4397936	0.6702304	0.86459	-6.156694
CYBB	0.0290117	8.1494218	0.4396922	0.6703012	0.86461	-6.15674
WDR49	0.0275608	6.8026519	0.4393391	0.6705479	0.86485	-6.156903
LOC1001302	-0.040532	7.7980148	-0.439169	0.6706668	0.86486	-6.156981
RAB40A	0.0538869	6.8628152	0.4390777	0.6707305	0.86486	-6.157023
CC2D2A	0.0289681	6.8015085	0.4390748	0.6707325	0.86486	-6.157024
ZNF614	0.0375951	7.8826617	0.4388405	0.6708962	0.86489	-6.157132
PCDHB4	-0.02996	6.747452	-0.438827	0.6709053	0.86489	-6.157138
CTGF	-0.028064	7.0911515	-0.438784	0.6709355	0.86489	-6.157157
AJUBA	0.0324326	6.9676669	0.438597	0.6710663	0.86498	-6.157243
CNTN3	0.0492298	6.8650474	0.4384373	0.6711779	0.86505	-6.157317
ANKLE2	-0.033823	9.0072481	-0.43752	0.6718194	0.86578	-6.157737
AVIL	-0.035439	7.0503011	-0.437441	0.671874	0.86578	-6.157773
SLC16A13	0.0333935	6.9610444	0.437379	0.6719177	0.86578	-6.157802
AIF1L	-0.02873	6.9256227	-0.437247	0.6720096	0.8658	-6.157862
NTN5	0.0321971	6.9364695	0.4371774	0.6720587	0.8658	-6.157894
CPT1A	-0.027184	6.8857855	-0.436935	0.672228	0.86595	-6.158005
FLRT1	0.0310491	6.7759034	0.4368343	0.6722986	0.86596	-6.158051
TTC30B	-0.026976	6.8278296	-0.436673	0.6724116	0.86603	-6.158125
TSPAN9	0.0376067	6.803928	0.4360356	0.6728572	0.86642	-6.158415
TCTEX1D2	-0.037004	8.4332539	-0.43602	0.6728679	0.86642	-6.158422
ZMYM6	-0.02794	8.6938598	-0.435947	0.6729193	0.86642	-6.158456
LMNA	-0.031859	7.1515054	-0.435788	0.6730305	0.86642	-6.158528

GLT8D2	0.0264537	6.812534	0.4357393	0.6730645	0.86642	-6.158551
MIR9-1	0.0356403	6.9643539	0.435658	0.6731215	0.86642	-6.158588
MAS1L	0.0362367	6.8566918	0.4356488	0.6731279	0.86642	-6.158592
KRTAP12-2	-0.031283	7.0018935	-0.435376	0.6733187	0.86655	-6.158716
MIR657	0.0342858	6.944076	0.4353054	0.6733682	0.86655	-6.158748
RAD9A	-0.040242	7.5890465	-0.435252	0.6734058	0.86655	-6.158773
FANCL	-0.045753	8.8472287	-0.435066	0.6735359	0.86664	-6.158857
RANBP3	0.0330516	7.8354933	0.4347286	0.6737719	0.86685	-6.159011
SUSD2	-0.03316	6.9920413	-0.434614	0.6738523	0.86685	-6.159063
ELF3	0.031437	7.391743	0.434575	0.6738795	0.86685	-6.159081
DUSP3	-0.030615	6.7576112	-0.43444	0.6739737	0.86689	-6.159142
CPEB4	-0.032559	7.5226518	-0.434031	0.6742606	0.86719	-6.159328
ALPK3	0.0335724	6.7954227	0.433875	0.6743696	0.86722	-6.159399
IMPACT	-0.02993	6.826265	-0.433827	0.6744036	0.86722	-6.159421
GRIPAP1	-0.029977	7.8245349	-0.433698	0.6744937	0.86726	-6.159479
NAP1L5	0.0280746	6.7949279	0.4335841	0.6745733	0.86728	-6.159531
PLEKHA3	0.0360934	7.9954664	0.4330937	0.6749169	0.86764	-6.159753
KCNC4	-0.028732	6.8899328	-0.433013	0.6749732	0.86764	-6.15979
CEP162	0.0365353	7.211972	0.4329088	0.6750465	0.86766	-6.159837
MIR371A	-0.033879	6.8979165	-0.432468	0.6753553	0.86798	-6.160037
GCNT1	0.026932	6.8474756	0.4322658	0.675497	0.86809	-6.160128
PPP1R15A	-0.04147	8.9156608	-0.432088	0.6756214	0.86815	-6.160209
POLL	-0.032274	6.9751105	-0.432033	0.6756604	0.86815	-6.160234
CEL	-0.033481	6.9196279	-0.431751	0.6758577	0.86832	-6.160361
ZNF98	0.0281215	6.9394344	0.4315848	0.6759744	0.86834	-6.160436
PEX19	-0.041559	8.8261144	-0.43156	0.6759917	0.86834	-6.160447
OR2A20P	0.0467387	7.3773144	0.4312425	0.6762144	0.8685	-6.160591
ATP8B2	0.0385957	7.0001041	0.4312097	0.6762374	0.8685	-6.160606
PTPA	0.0353341	7.894445	0.4310883	0.6763225	0.86854	-6.160661
OGFOD3	0.0322041	7.7944364	0.4310041	0.6763816	0.86854	-6.160699
POLR2F	-0.036517	12.17703	-0.430511	0.6767273	0.86883	-6.160921
KIR3DX1	-0.033875	6.8323112	-0.430473	0.676754	0.86883	-6.160938
SPCS2	0.030566	9.3067822	0.4304275	0.676786	0.86883	-6.160959
RREB1	0.0285065	6.9568282	0.4301874	0.6769545	0.86897	-6.161067
HDAC3	0.0368844	10.095011	0.4300645	0.6770407	0.869	-6.161122
ZNF428	0.0363075	11.803282	0.4299714	0.677106	0.86901	-6.161164
LTN1	0.0307956	7.636191	0.4297246	0.6772792	0.86914	-6.161275
GJA10	0.0395765	6.9457465	0.4294799	0.6774509	0.86914	-6.161385
NBPF7	-0.035086	6.822955	-0.429279	0.6775918	0.86914	-6.161475
AGAP2	-0.029443	6.9423169	-0.4292	0.6776473	0.86914	-6.161511
LAMB2P1	-0.02961	6.8142093	-0.429121	0.6777029	0.86914	-6.161547
MED27	-0.049181	8.6408036	-0.429111	0.6777097	0.86914	-6.161551
LGALS3BP	-0.027445	6.7991677	-0.429007	0.6777824	0.86914	-6.161598
ZBTB6	0.0450036	7.1763185	0.4290074	0.6777825	0.86914	-6.161598
SVIL	-0.026504	6.9203988	-0.428976	0.6778049	0.86914	-6.161612

CDKN2AIPNI	0.0716673	11.62062	0.4289255	0.67784	0.86914	-6.161634
PPP2R5C	0.0301067	8.6988875	0.428896	0.6778607	0.86914	-6.161648
PRUNE1	-0.026708	8.4013267	-0.428765	0.6779524	0.86918	-6.161706
TRIM16	0.0294551	6.8940393	0.4281863	0.678359	0.86934	-6.161966
RALGAPA1	0.0371518	8.246792	0.4281821	0.6783619	0.86934	-6.161968
QPCT	0.0357015	7.0796797	0.4281495	0.6783848	0.86934	-6.161983
ZNF638	0.0411084	7.5602706	0.4281001	0.6784195	0.86934	-6.162005
VTA1	-0.039228	8.1349173	-0.428073	0.6784388	0.86934	-6.162017
UBE2I	0.0256627	8.1905767	0.4278992	0.6785606	0.86934	-6.162095
NOXO1	-0.032186	7.0241811	-0.427662	0.6787271	0.86934	-6.162201
DPH6	-0.027644	7.6555881	-0.427544	0.6788104	0.86934	-6.162254
PDCL3	0.0325582	9.7423293	0.427538	0.6788143	0.86934	-6.162257
LY6H	0.0353544	6.9597642	0.4274953	0.6788443	0.86934	-6.162276
GORAB	-0.029306	7.8282634	-0.427488	0.6788496	0.86934	-6.162279
TRIM50	-0.039941	6.8781805	-0.427464	0.6788665	0.86934	-6.16229
OR4A16	-0.028379	6.9468486	-0.427347	0.6789486	0.86934	-6.162342
ACSL4	0.0438575	8.5400372	0.4272717	0.6790013	0.86934	-6.162376
OTUD5	0.0410643	7.5929127	0.4272033	0.6790494	0.86934	-6.162406
DDX19A	-0.043927	9.2998029	-0.427125	0.6791047	0.86934	-6.162442
NOC2LP2	0.0351379	7.1313419	0.4271017	0.6791208	0.86934	-6.162452
XKR8	-0.03094	6.9495976	-0.42704	0.6791643	0.86934	-6.16248
PXMP2	-0.034237	9.6345285	-0.426924	0.6792454	0.86934	-6.162531
CSF3R	0.0281457	6.8192522	0.4268075	0.6793275	0.86934	-6.162583
CNPY1	0.0271692	6.8462182	0.4267033	0.6794007	0.86934	-6.16263
KAT6B	-0.03206	7.0642547	-0.426637	0.6794475	0.86934	-6.16266
KLRC3	0.0665803	6.9503118	0.4266355	0.6794483	0.86934	-6.16266
HYI	-0.027521	6.7285445	-0.426274	0.6797021	0.86959	-6.162822
IRF2BPL	-0.034259	7.8665553	-0.426019	0.6798813	0.86965	-6.162935
MBD4	-0.043806	9.3735475	-0.426008	0.6798893	0.86965	-6.16294
KCNIP4-IT1	-0.030728	6.8574157	-0.425749	0.6800715	0.86965	-6.163056
SNORD83A	-0.026385	6.8219597	-0.425626	0.680158	0.86965	-6.163111
CACUL1	0.0315985	6.9436996	0.4255546	0.6802081	0.86965	-6.163143
ADGRE2	0.0301485	6.9275151	0.4255232	0.6802302	0.86965	-6.163157
OR2A9P	0.0274926	6.7671558	0.4254995	0.6802468	0.86965	-6.163167
BMP4	-0.03866	7.0377352	-0.425306	0.680383	0.86965	-6.163254
SEC31A	0.0332248	8.4635776	0.4251988	0.6804583	0.86965	-6.163301
AOC1	0.0272285	6.8305242	0.4251637	0.680483	0.86965	-6.163317
G2E3	-0.047364	7.4050616	-0.425081	0.6805409	0.86965	-6.163354
F8	0.0334174	6.8979626	0.4250542	0.68056	0.86965	-6.163366
RAB26	-0.029199	6.7546226	-0.42504	0.6805697	0.86965	-6.163372
CENPN	-0.029566	9.6530921	-0.424998	0.6805997	0.86965	-6.163391
CUEDC2	-0.056272	10.268243	-0.424935	0.6806441	0.86965	-6.163419
MYO5A	-0.034975	7.6896091	-0.424805	0.6807354	0.86969	-6.163477
AXL	-0.033065	6.8510444	-0.424317	0.6810782	0.87005	-6.163693
CAPN1	-0.04492	9.3061079	-0.424169	0.6811826	0.87011	-6.163759

DOPEY1	-0.032313	7.1511692	-0.42395	0.6813368	0.87023	-6.163857
LCA5	0.0302316	6.8384254	0.4234564	0.681684	0.87059	-6.164076
BZW2	-0.029559	11.709948	-0.423374	0.6817419	0.87059	-6.164112
CHCHD5	0.0505311	9.1118288	0.423229	0.681844	0.87065	-6.164177
IL1RL1	0.0310836	6.9184918	0.4228799	0.6820898	0.87089	-6.164331
MYPOP	-0.042436	9.6234283	-0.422179	0.6825831	0.87137	-6.164642
PLAU	0.0389271	7.2469574	0.4221728	0.6825876	0.87137	-6.164644
KLF7	-0.042181	6.9110813	-0.421904	0.6827772	0.87147	-6.164763
CCDC26	-0.037187	6.9808245	-0.421896	0.6827822	0.87147	-6.164767
SMAGP	-0.025447	6.7829243	-0.421748	0.6828865	0.87152	-6.164832
TPM3P9	0.0424433	7.7308918	0.4216574	0.6829506	0.87153	-6.164872
PLEKHA2	-0.027453	8.5095692	-0.421502	0.6830603	0.87153	-6.164941
GINS3	-0.03947	10.429883	-0.421378	0.6831475	0.87153	-6.164996
POLE4	-0.032413	11.309465	-0.42137	0.6831527	0.87153	-6.164999
DMRT1	-0.031063	6.808385	-0.421314	0.6831927	0.87153	-6.165024
ERO1B	0.0278617	7.4085479	0.4210989	0.6833439	0.87164	-6.165119
RRAGD	0.0353937	7.2849385	0.4209686	0.6834358	0.87164	-6.165176
FUNDC2	-0.02749	6.8687334	-0.420943	0.6834539	0.87164	-6.165188
MATN2	0.0251934	6.8059009	0.4205398	0.6837379	0.87179	-6.165365
FBXW2	0.0318515	8.015684	0.4205398	0.6837379	0.87179	-6.165365
UBE2MP1	0.032302	6.9449237	0.4204587	0.683795	0.87179	-6.165401
VPS9D1	-0.025778	6.786935	-0.420348	0.6838732	0.87179	-6.16545
CCR6	0.0296552	9.1894891	0.420286	0.6839168	0.87179	-6.165477
SEZ6	0.0374543	6.7502127	0.4202633	0.6839328	0.87179	-6.165487
ATG2B	-0.030582	6.9588193	-0.419941	0.6841602	0.872	-6.165629
TMLHE	-0.029789	7.4322078	-0.4197	0.6843298	0.87214	-6.165735
MYO10	0.0342185	6.8224801	0.4194943	0.6844748	0.87225	-6.165826
LINC00092	-0.034759	7.5627841	-0.419389	0.6845491	0.87227	-6.165872
PLEKHA4	-0.028573	6.7768022	-0.419104	0.6847503	0.87245	-6.165997
TMEM127	-0.034038	7.197933	-0.418953	0.6848562	0.87251	-6.166063
CHST7	0.0265243	7.2655859	0.4187655	0.6849888	0.8726	-6.166146
MYOF	-0.025976	6.7689835	-0.418357	0.6852767	0.87282	-6.166325
EEF2	0.0344048	13.520004	0.41835	0.6852819	0.87282	-6.166328
IL13RA1	0.0286362	6.737234	0.4182496	0.6853527	0.87284	-6.166372
GAR1	0.0278747	9.7529124	0.4181591	0.6854165	0.87284	-6.166412
SOX21	0.0265745	6.9270289	0.4180792	0.6854728	0.87284	-6.166447
TWISTNB	0.0430837	8.1116799	0.4179981	0.6855301	0.87284	-6.166482
AGBL5	0.0268976	8.1086833	0.4176138	0.6858012	0.87291	-6.166651
ABCB1	-0.031785	6.8815532	-0.417601	0.6858102	0.87291	-6.166656
FOSL1	0.0266253	6.9505483	0.4175966	0.6858134	0.87291	-6.166658
RASA2	-0.036365	6.9748919	-0.417576	0.685828	0.87291	-6.166667
LOC388692	0.0291084	7.3339882	0.4174588	0.6859106	0.87294	-6.166718
MAPT-AS1	0.0373536	6.9644827	0.4171764	0.6861099	0.87309	-6.166842
SYBU	0.033978	8.7015616	0.4170909	0.6861702	0.87309	-6.166879
MRI1	0.0301653	8.6608761	0.4170367	0.6862085	0.87309	-6.166903

OCLN	-0.02731	6.841875	-0.416846	0.6863429	0.87318	-6.166986
IFRD2	-0.039237	9.0262595	-0.416418	0.6866449	0.87349	-6.167173
SLC10A7	-0.035775	7.3490188	-0.415886	0.687021	0.87386	-6.167406
PTPRH	0.0269059	6.8019032	0.4158443	0.6870503	0.87386	-6.167424
GFOD1	-0.033233	8.4066322	-0.415356	0.6873953	0.87422	-6.167637
COL16A1	0.0291275	6.8307898	0.4147135	0.6878491	0.87472	-6.167916
PRIMPOL	-0.046732	7.2570226	-0.414426	0.6880525	0.8748	-6.168041
GPHA2	-0.025648	6.8382442	-0.414385	0.6880813	0.8748	-6.168059
CLK3	-0.026736	8.2114695	-0.414366	0.6880946	0.8748	-6.168067
LINC01838	-0.030037	6.8381343	-0.414235	0.6881875	0.87484	-6.168124
HADHB	-0.028058	9.0900546	-0.414109	0.6882761	0.87484	-6.168179
SPP1	0.0254491	6.8343459	0.4140688	0.6883047	0.87484	-6.168196
PLEKHF2	-0.030362	7.989075	-0.413909	0.6884177	0.87486	-6.168266
RNY5	0.0404745	8.0473917	0.4138815	0.6884371	0.87486	-6.168278
ATP7B	-0.026001	6.964408	-0.413792	0.6885	0.87486	-6.168316
KAT5	-0.029481	7.2446547	-0.413312	0.6888393	0.87512	-6.168524
ZNF202	-0.025394	7.4713519	-0.413267	0.6888718	0.87512	-6.168544
MIR557	-0.028616	7.1055894	-0.413249	0.6888839	0.87512	-6.168552
EPHA8	-0.032161	7.3479721	-0.412859	0.6891597	0.87514	-6.168721
PTRH2	-0.038399	8.7852273	-0.412839	0.6891743	0.87514	-6.16873
ZBTB47	0.025586	6.7655955	0.412802	0.6892003	0.87514	-6.168745
KIAA0586	-0.037681	8.0599102	-0.412787	0.6892109	0.87514	-6.168752
TBX19	-0.025475	6.9296191	-0.412556	0.6893744	0.87514	-6.168852
SERPINA1	-0.028682	6.8353544	-0.412483	0.6894258	0.87514	-6.168883
ZNF420	-0.034991	6.8309628	-0.412453	0.6894467	0.87514	-6.168896
SNORA49	0.0397898	7.0161378	0.4124523	0.6894476	0.87514	-6.168897
ACOT11	0.0262873	6.7801996	0.4123835	0.6894962	0.87514	-6.168927
APOE	-0.024969	6.7501551	-0.412305	0.6895519	0.87514	-6.168961
RTP1	0.050712	6.9943121	0.412219	0.6896126	0.87514	-6.168998
PMS2P4	-0.031845	10.263699	-0.412215	0.6896152	0.87514	-6.168999
SLC5A10	-0.027221	7.0807299	-0.411978	0.6897829	0.87519	-6.169102
MORN2	-0.028512	8.2214497	-0.41192	0.6898242	0.87519	-6.169127
LINC01341	-0.029804	6.8554865	-0.411858	0.6898679	0.87519	-6.169154
NDUFAF3	-0.02851	8.4358738	-0.411811	0.6899009	0.87519	-6.169174
FCF1	0.0276624	7.3430357	0.41157	0.6900717	0.87533	-6.169278
GNAT1	-0.030314	6.9765525	-0.411314	0.6902531	0.87539	-6.169389
CDCA7L	0.0343656	8.7187226	0.4112746	0.6902807	0.87539	-6.169406
ZNF676	0.024716	6.9350922	0.4111649	0.6903584	0.87539	-6.169453
ZNF101	-0.029662	7.4868082	-0.411086	0.6904141	0.87539	-6.169487
KIF9	0.0248672	6.888474	0.411008	0.6904694	0.87539	-6.16952
SEC11A	-0.029447	10.685325	-0.410939	0.690518	0.87539	-6.16955
CEACAM4	-0.02782	6.8899471	-0.410754	0.6906489	0.87539	-6.16963
PRG4	-0.028749	6.8953685	-0.410523	0.6908127	0.87539	-6.169729
HK2	0.0385058	8.6981704	0.4105229	0.6908128	0.87539	-6.16973
TRABD	0.0409653	11.846526	0.4105115	0.6908209	0.87539	-6.169734

DHCR24	0.0374293	8.915804	0.410485	0.6908397	0.87539	-6.169746
ESYT3	0.0246399	6.8097757	0.4103407	0.6909418	0.87539	-6.169808
CKB	-0.031549	6.7811953	-0.41029	0.6909778	0.87539	-6.16983
PHF7	-0.027831	6.9859813	-0.410244	0.6910101	0.87539	-6.169849
UGT1A3	0.0270141	7.3055447	0.4102393	0.6910135	0.87539	-6.169852
LHX1	0.0292551	6.8440667	0.4099714	0.6912032	0.87549	-6.169967
PPP1R12C	-0.044073	7.853921	-0.409865	0.6912784	0.87549	-6.170012
ZNF776	-0.041262	7.2533364	-0.409676	0.6914121	0.87549	-6.170094
CACNA1C-AS	0.0336559	7.0535962	0.4096479	0.6914323	0.87549	-6.170106
KIAA0141	-0.03328	8.6933748	-0.409621	0.6914517	0.87549	-6.170118
KDM4D	0.0367461	7.1328031	0.4096053	0.6914625	0.87549	-6.170124
ELOB	-0.030496	10.289621	-0.409464	0.6915625	0.87549	-6.170185
SH2D3C	-0.02967	7.0932519	-0.409374	0.6916264	0.87549	-6.170224
LINC01278	-0.030373	8.0100608	-0.409359	0.6916373	0.87549	-6.17023
TIGAR	-0.032438	10.192932	-0.409159	0.6917783	0.87552	-6.170316
SYCP2	-0.028386	6.7675015	-0.409109	0.6918141	0.87552	-6.170337
OTUD7A	0.0320762	6.9037506	0.409039	0.6918636	0.87552	-6.170367
IL4R	-0.042252	8.6019771	-0.408973	0.6919104	0.87552	-6.170396
ATP13A2	-0.049939	7.2264726	-0.408828	0.6920131	0.87552	-6.170458
CUL5	0.0480328	9.6560251	0.4088178	0.6920203	0.87552	-6.170462
LTBP1	-0.028479	6.8858584	-0.408649	0.6921396	0.8756	-6.170534
HIPK2	-0.03184	6.8644174	-0.408348	0.6923534	0.87579	-6.170664
PLPPR2	0.0280184	6.876787	0.4079836	0.6926114	0.87595	-6.17082
ASB16-AS1	-0.033615	6.987071	-0.407958	0.6926293	0.87595	-6.170831
SLC38A10	0.0429707	7.561673	0.4079192	0.692657	0.87595	-6.170847
MED26	0.0361555	8.2140793	0.4077911	0.6927478	0.87599	-6.170902
MIR99AHG	-0.031572	7.0822596	-0.407596	0.6928859	0.87609	-6.170985
MPST	0.0382706	7.8111249	0.4074521	0.6929881	0.87614	-6.171047
CYP2U1	-0.030648	7.2199824	-0.407236	0.6931411	0.87626	-6.171139
SMARCD2	-0.05535	8.9113582	-0.406867	0.6934027	0.87651	-6.171297
TEC	-0.035834	7.0408712	-0.406723	0.6935052	0.87657	-6.171359
LETMD1	-0.027253	8.9735511	-0.406524	0.6936464	0.87662	-6.171444
FGFRL1	0.028894	6.9818644	0.406379	0.6937489	0.87662	-6.171505
STRADB	-0.034289	8.5125364	-0.406334	0.6937808	0.87662	-6.171524
RGS16	0.0348147	8.3027458	0.4062961	0.6938078	0.87662	-6.171541
PLAGL1	-0.026498	6.867913	-0.406244	0.6938444	0.87662	-6.171563
STAC3	0.0298881	6.9348393	0.4061188	0.6939335	0.87665	-6.171616
ARPIN	0.0331422	6.8596158	0.4059116	0.6940804	0.87671	-6.171704
NUDT18	0.0363526	8.0353668	0.4058842	0.6940999	0.87671	-6.171716
TTF2	0.0455737	10.543697	0.4056211	0.6942865	0.87687	-6.171828
ADSSL1	-0.024806	6.8601291	-0.405462	0.6943995	0.87694	-6.171896
GAGE12E	-0.037029	6.9719332	-0.40522	0.694571	0.87694	-6.171999
TRAPPC2	0.026891	7.6319426	0.4048541	0.6948308	0.87694	-6.172154
TBC1D1	0.0421262	7.1270993	0.4047815	0.6948823	0.87694	-6.172185
UTP14C	-0.030445	8.2500187	-0.404577	0.6950277	0.87694	-6.172272

SNORD14C	-0.040409	8.1048649	-0.404525	0.6950641	0.87694	-6.172294
ZNF112	-0.031797	6.837156	-0.404471	0.6951023	0.87694	-6.172317
SLC13A3	-0.031308	7.0152032	-0.404298	0.6952252	0.87694	-6.17239
GGA1	0.029493	8.2823928	0.4042956	0.6952271	0.87694	-6.172391
STT3A	0.0379808	10.563579	0.4042067	0.6952903	0.87694	-6.172429
RGL2	-0.031806	7.2452526	-0.404144	0.6953348	0.87694	-6.172456
SF1	-0.030489	7.2805344	-0.404016	0.6954257	0.87694	-6.17251
SH2D2A	-0.025427	6.9236125	-0.40399	0.6954438	0.87694	-6.172521
FGF23	-0.04086	7.0605544	-0.403864	0.6955337	0.87694	-6.172575
DNAJB12	0.0268924	7.6233131	0.4038534	0.6955411	0.87694	-6.172579
UBE2E2	-0.040521	9.9630926	-0.403853	0.6955417	0.87694	-6.172579
SYDE2	0.0306998	6.8296167	0.4037813	0.6955923	0.87694	-6.17261
TSPAN18	-0.033123	6.8891839	-0.403736	0.6956247	0.87694	-6.172629
RNGTT	-0.036737	10.079517	-0.403731	0.6956277	0.87694	-6.172631
PNPLA4	0.0252403	7.1241344	0.4037288	0.6956295	0.87694	-6.172632
SNORA56	-0.036793	7.0397257	-0.403669	0.6956719	0.87694	-6.172657
KRT78	-0.034472	6.8012407	-0.403532	0.695769	0.87694	-6.172715
C1orf54	-0.03114	6.9413199	-0.403522	0.695776	0.87694	-6.172719
PLCB4	0.0289642	6.855237	0.4035121	0.6957834	0.87694	-6.172724
SLC30A7	0.0483858	9.2023166	0.4033577	0.6958931	0.877	-6.172789
ITIH5	-0.038727	13.919466	-0.403148	0.6960417	0.87711	-6.172878
GUSB	0.0327212	9.4403792	0.4027607	0.6963171	0.87711	-6.173042
RNF5P1	0.0310803	8.6243702	0.4027319	0.6963375	0.87711	-6.173054
TP53I3	-0.032088	7.040973	-0.402723	0.696344	0.87711	-6.173058
NFS1	-0.02511	7.6899363	-0.40265	0.6963956	0.87711	-6.173088
CYP26B1	-0.029458	6.8247688	-0.402632	0.6964087	0.87711	-6.173096
UCK2	-0.036535	9.192717	-0.402578	0.6964471	0.87711	-6.173119
LOC728715	-0.060647	8.2899439	-0.402565	0.696456	0.87711	-6.173124
WTIP	0.0258369	6.823209	0.4023061	0.69664	0.87726	-6.173234
IRAK2	0.0267476	6.8675382	0.4020575	0.6968166	0.87741	-6.173339
CCL5	-0.030129	7.7098738	-0.401646	0.6971094	0.87767	-6.173512
SLC22A16	-0.029228	6.7348441	-0.401591	0.6971483	0.87767	-6.173535
ZNF655	0.0314852	7.3002223	0.4015077	0.6972074	0.87767	-6.173571
HIPK3	0.0240016	6.8496571	0.4013833	0.6972957	0.87767	-6.173623
ZNF574	0.0370296	7.0044377	0.4012794	0.6973696	0.87767	-6.173667
YTHDF3	-0.040252	8.5587731	-0.401252	0.6973892	0.87767	-6.173678
ATPIF1	0.026384	9.069231	0.4008813	0.6976526	0.87793	-6.173834
SSSCA1	-0.033213	8.2069927	-0.400685	0.6977919	0.87796	-6.173917
CTSG	-0.028824	6.7864039	-0.400592	0.6978585	0.87796	-6.173956
FAM200A	-0.034918	7.4826336	-0.400533	0.6979001	0.87796	-6.173981
PHF20L1	0.0242215	7.5236812	0.4005048	0.6979203	0.87796	-6.173993
RNF121	0.0257863	8.3133216	0.4003449	0.698034	0.87803	-6.17406
CARD16	-0.032827	6.931939	-0.400114	0.6981982	0.87815	-6.174157
SGCG	-0.023946	6.848191	-0.400043	0.6982485	0.87815	-6.174187
ACKR2	-0.028501	6.8113329	-0.399878	0.6983657	0.87822	-6.174256

GPR132	0.0373761	7.603559	0.3991852	0.6988588	0.87877	-6.174547
SNORD125	-0.025014	6.9330215	-0.398865	0.699087	0.87898	-6.174681
GABRB2	0.0281875	6.8151597	0.3987756	0.6991503	0.87898	-6.174718
PAXIP1-AS2	-0.028135	6.8596575	-0.398427	0.6993983	0.87915	-6.174864
RECK	-0.029101	6.8551718	-0.398388	0.6994262	0.87915	-6.174881
STK19	-0.029416	8.5369429	-0.398336	0.6994633	0.87915	-6.174902
NT5DC1	0.0259234	7.0009024	0.3979534	0.6997354	0.87938	-6.175062
RASAL1	0.0247958	7.2448331	0.3978963	0.6997761	0.87938	-6.175086
NCMAP	-0.04692	7.1201951	-0.397827	0.6998252	0.87938	-6.175115
ZBBX	0.028732	7.1156835	0.3977234	0.6998991	0.87939	-6.175158
TIMP1	-0.034775	7.9734381	-0.39754	0.7000295	0.87948	-6.175235
GPN3	-0.036067	8.5416307	-0.397113	0.7003339	0.87979	-6.175413
C6orf47	-0.031982	8.3113867	-0.396987	0.7004237	0.87982	-6.175466
TMEM42	0.0416996	7.2064233	0.3968594	0.7005143	0.87986	-6.175519
MIR192	-0.027236	6.9120349	-0.396596	0.7007018	0.88002	-6.175629
FAM89A	-0.029588	7.6338226	-0.396336	0.7008871	0.88012	-6.175737
TTTY14	0.0339885	7.196984	0.3961761	0.701001	0.88012	-6.175803
FNDC4	0.0277067	6.865643	0.3961224	0.7010392	0.88012	-6.175826
FAM129C	0.034516	6.9388714	0.396114	0.7010453	0.88012	-6.175829
LDLRAD4-AS	0.0583049	7.0826792	0.3960659	0.7010795	0.88012	-6.175849
RNFT2	0.027538	8.2689864	0.3958679	0.7012206	0.88022	-6.175932
RAB10	0.0471727	11.639105	0.395673	0.7013594	0.88028	-6.176013
WDHD1	-0.026706	7.2606462	-0.395552	0.7014458	0.88028	-6.176063
PENK	-0.034307	6.8146491	-0.395542	0.701453	0.88028	-6.176067
PATE1	0.0239761	6.8760519	0.3954533	0.701516	0.88029	-6.176104
NLRP3	0.0233845	6.8366893	0.3952953	0.7016286	0.88029	-6.17617
RASGRF1	-0.031252	6.8489562	-0.395287	0.7016345	0.88029	-6.176173
SLC1A4	0.0318956	7.4805809	0.3951241	0.7017506	0.88035	-6.176241
REST	-0.029671	6.9593706	-0.395003	0.7018367	0.88039	-6.176291
CD55	-0.090762	8.0320048	-0.394717	0.7020408	0.88051	-6.176409
SLAMF6	0.0273964	9.212883	0.3946387	0.7020966	0.88051	-6.176442
NAPB	0.0334642	8.8112593	0.3946082	0.7021183	0.88051	-6.176455
SMAP1	0.0256392	8.4976101	0.3945034	0.702193	0.88051	-6.176498
MRPL24	0.0341719	10.905635	0.3944394	0.7022386	0.88051	-6.176524
HTRA2	0.0399112	8.9592648	0.3943089	0.7023317	0.88052	-6.176579
NRAS	-0.037733	8.6297162	-0.394204	0.7024062	0.88052	-6.176622
DCTN3	-0.033297	8.565399	-0.394146	0.7024477	0.88052	-6.176646
LDLRAD2	0.024268	6.8267355	0.3940911	0.7024869	0.88052	-6.176669
NSF	0.0278842	9.0007994	0.3939875	0.7025609	0.88054	-6.176712
THEMIS	0.0373635	6.7819281	0.3938811	0.7026367	0.88056	-6.176756
PYROXD1	0.0341094	7.1921928	0.3937475	0.702732	0.8806	-6.176811
NUPR1	-0.025049	6.8131141	-0.393395	0.7029834	0.88083	-6.176957
TJP3	0.0281254	6.9953989	0.3933187	0.7030377	0.88083	-6.176988
MDP1	-0.036505	8.7299037	-0.393057	0.7032241	0.88099	-6.177096
C1QL2	0.036861	7.1340608	0.3928241	0.7033906	0.88112	-6.177192

RBM41	-0.033891	7.296612	-0.39256	0.7035789	0.88113	-6.177301
TMOD4	-0.02409	6.962924	-0.3925	0.7036218	0.88113	-6.177326
SEMA6B	-0.031383	7.0421092	-0.392424	0.7036757	0.88113	-6.177357
PHAX	-0.031657	8.318572	-0.392368	0.7037163	0.88113	-6.177381
DOK7	0.0292747	6.8196843	0.3923276	0.7037448	0.88113	-6.177397
MAP4K5	0.0277837	7.6538412	0.3923093	0.7037579	0.88113	-6.177405
PLEKHO2	-0.026765	7.4547936	-0.392166	0.70386	0.88118	-6.177464
NPIPB8	0.0260347	7.602542	0.3920136	0.7039689	0.88124	-6.177527
ANKRD6	0.0266304	6.8240335	0.3919091	0.7040435	0.88125	-6.17757
ARRDC5	0.0237926	6.7656359	0.3918321	0.7040984	0.88125	-6.177601
CASP8	-0.030235	7.1661161	-0.391753	0.7041546	0.88125	-6.177634
RAB4B	-0.024346	7.7406625	-0.391543	0.7043047	0.88136	-6.17772
GALNT4	-0.035692	7.086566	-0.39132	0.7044636	0.88149	-6.177812
ARSD	-0.024936	6.8291673	-0.391121	0.7046061	0.88159	-6.177894
SHANK3	-0.025898	6.8378964	-0.390982	0.704705	0.88164	-6.177951
RRNAD1	-0.029398	7.716119	-0.389629	0.7056714	0.88277	-6.178506
EBPL	0.0242547	10.428212	0.3895161	0.7057522	0.8828	-6.178552
FRMD3	-0.026399	6.8643652	-0.38943	0.7058135	0.8828	-6.178587
MRPL42P5	-0.025978	6.8740187	-0.389307	0.7059015	0.88283	-6.178638
KNSTRN	0.030487	8.9710236	0.3890685	0.706072	0.88297	-6.178735
RAB18	0.0281573	7.5242659	0.3889808	0.7061346	0.88297	-6.178771
SMURF1	-0.033898	7.0545449	-0.388815	0.7062533	0.88299	-6.178839
SLC25A37	0.0338239	8.2227589	0.388743	0.7063045	0.88299	-6.178868
ANGPTL6	0.0324386	7.6342185	0.388702	0.7063339	0.88299	-6.178885
LCN12	0.0237372	6.8765629	0.3884591	0.7065075	0.88313	-6.178984
DPY19L2	-0.028292	6.6669819	-0.388371	0.7065706	0.88314	-6.17902
LOC286437	0.0286055	6.9280106	0.387912	0.7068985	0.88336	-6.179207
NMNAT1	0.0450432	7.3150329	0.3878035	0.7069761	0.88336	-6.179252
HPS1	0.0282349	7.5215864	0.3877707	0.7069996	0.88336	-6.179265
CYFIP1	-0.023881	6.8155625	-0.387768	0.7070012	0.88336	-6.179266
PRRT1	0.0309621	6.8497109	0.3876983	0.7070513	0.88336	-6.179295
MYH14	-0.025379	6.8751729	-0.387421	0.7072494	0.88339	-6.179407
SEC62	0.0256144	8.2896136	0.3873205	0.7073214	0.88339	-6.179448
TSEN34	0.0349506	10.344054	0.3873126	0.7073271	0.88339	-6.179452
ZNF20	0.0268012	7.9736636	0.3872246	0.70739	0.88339	-6.179487
NDFIP2	-0.037475	9.0028887	-0.387094	0.7074837	0.88339	-6.179541
LARP1B	0.0296675	7.8505502	0.3869867	0.7075602	0.88339	-6.179584
ZDHHC4	-0.032161	8.8152563	-0.386955	0.7075831	0.88339	-6.179597
IP6K1	-0.026141	8.5303912	-0.386852	0.7076568	0.88339	-6.179639
MTERF2	-0.032691	6.8304247	-0.386791	0.7076999	0.88339	-6.179664
PI4KAP1	0.0295886	7.7166292	0.3867145	0.7077548	0.88339	-6.179695
TRIM46	-0.036303	7.0298297	-0.386644	0.7078052	0.88339	-6.179724
PHKA1	-0.029667	8.0139574	-0.38659	0.7078441	0.88339	-6.179746
DNAJC19	-0.031849	7.9186138	-0.386519	0.7078949	0.88339	-6.179775
GPR155	0.0335006	6.9236964	0.3864369	0.7079534	0.88339	-6.179808

LZTR1	-0.0458	10.200792	-0.386387	0.707989	0.88339	-6.179828
PTPRK	-0.024916	6.8340586	-0.386162	0.7081503	0.88339	-6.17992
LINC00467	-0.026819	7.6686758	-0.386097	0.7081963	0.88339	-6.179946
OXLD1	-0.029587	9.061356	-0.385995	0.7082692	0.88339	-6.179987
C1orf21	-0.03994	7.3526279	-0.385974	0.7082845	0.88339	-6.179996
SERF1B	0.0268221	9.4927771	0.3858864	0.7083472	0.88339	-6.180031
CDHR2	-0.029901	6.8949038	-0.385718	0.7084679	0.88339	-6.1801
IFI6	-0.035876	8.0900188	-0.385714	0.7084707	0.88339	-6.180101
RGS21	-0.02319	6.8352194	-0.385413	0.7086857	0.88339	-6.180223
RAPGEF1	0.0245055	8.2107357	0.3853447	0.7087348	0.88339	-6.180251
EIF5	0.0294759	7.8197831	0.385344	0.7087353	0.88339	-6.180251
CX3CR1	-0.026579	6.9477528	-0.385252	0.7088014	0.88339	-6.180288
MEST	0.0239774	6.7395351	0.3851623	0.7088654	0.88339	-6.180325
SLC25A27	-0.025611	7.8572163	-0.385149	0.7088748	0.88339	-6.18033
THG1L	-0.028567	7.5718193	-0.38512	0.7088958	0.88339	-6.180342
SIKE1	-0.027097	7.0655391	-0.384944	0.7090219	0.88339	-6.180413
FAM177A1	0.0319726	9.55309	0.3848579	0.7090833	0.88339	-6.180448
RSAD1	0.0298826	7.8812276	0.3848389	0.7090969	0.88339	-6.180456
FCRL3	0.0287813	9.216137	0.3848081	0.7091189	0.88339	-6.180468
PRDX2	-0.054012	10.059309	-0.384788	0.7091336	0.88339	-6.180476
TAF1C	-0.026415	8.1840056	-0.384306	0.7094786	0.88371	-6.180671
COX7A2L	-0.038038	11.965484	-0.384258	0.7095125	0.88371	-6.18069
GOLGA8B	0.0302671	8.4951488	0.3839161	0.7097575	0.88388	-6.180829
CAMTA1	0.0229721	6.7787117	0.3838179	0.7098278	0.88388	-6.180868
ATP6V1C1	-0.036437	7.7044892	-0.383745	0.7098804	0.88388	-6.180898
TTC38	0.0299225	6.9838547	0.3836294	0.7099629	0.88388	-6.180944
SERHL	0.0299267	7.1305265	0.3835836	0.7099956	0.88388	-6.180963
STXBP4	0.0241314	7.0995524	0.3835583	0.7100137	0.88388	-6.180973
ACADSB	0.0316117	7.1412732	0.3831581	0.7103004	0.884	-6.181134
MIR654	0.0273327	6.7751536	0.38302	0.7103994	0.884	-6.18119
COL5A2	-0.023106	6.871987	-0.383012	0.7104048	0.884	-6.181193
OR2A42	0.0301161	7.1888609	0.3829556	0.7104455	0.884	-6.181216
ADAM22	-0.025429	6.9146491	-0.382937	0.7104588	0.884	-6.181223
SH3BP5L	0.0373938	7.4652921	0.3828948	0.7104891	0.884	-6.18124
LCN15	-0.024603	6.8787048	-0.382839	0.7105294	0.884	-6.181263
MYADML	0.0270022	7.0000965	0.3826996	0.7106289	0.88405	-6.181319
ZNF705D	-0.023615	6.8846459	-0.382432	0.7108204	0.88417	-6.181426
FKBP9P1	0.0264597	6.7909701	0.3823888	0.7108516	0.88417	-6.181444
NSD3	-0.024698	6.9190862	-0.382217	0.7109746	0.88425	-6.181513
OR2W1	0.0268376	6.8200472	0.3819803	0.7111443	0.88433	-6.181608
IBTK	0.0753093	8.8841481	0.3819539	0.7111633	0.88433	-6.181619
DAPK1	0.0303514	6.9668865	0.3816855	0.7113556	0.88449	-6.181726
CAPN10	-0.030059	6.8772379	-0.381359	0.7115897	0.88449	-6.181857
OSTM1	0.0301148	7.7047927	0.3813542	0.7115931	0.88449	-6.181859
POMK	0.0285772	6.8799495	0.3812911	0.7116383	0.88449	-6.181885

SPDYE7P	0.0288109	6.9678372	0.3812768	0.7116486	0.88449	-6.18189
PAMR1	-0.023949	6.8730739	-0.381271	0.7116528	0.88449	-6.181893
ATF6B	0.0290424	7.4633259	0.3810369	0.7118205	0.88462	-6.181986
RANBP9	-0.026482	7.308284	-0.380595	0.7121378	0.88478	-6.182164
MYO19	-0.022938	7.23552	-0.380513	0.7121964	0.88478	-6.182196
RNF169	-0.028083	7.2718224	-0.380466	0.7122302	0.88478	-6.182215
MEFV	-0.031334	6.872201	-0.380439	0.7122495	0.88478	-6.182226
NDUFAF6	-0.034602	9.9975295	-0.380423	0.7122609	0.88478	-6.182232
PWWP2B	0.0229471	6.8651257	0.3803565	0.7123084	0.88478	-6.182259
NME1-NME	-0.038523	11.002019	-0.380058	0.7125226	0.88492	-6.182378
HIST1H4K	0.028522	9.0697895	0.3800124	0.7125552	0.88492	-6.182396
KCNG3	-0.048979	6.8873265	-0.379852	0.7126701	0.88492	-6.182461
SSH3	0.0262113	6.8563477	0.3796727	0.7127989	0.88492	-6.182532
C5orf66-AS2	-0.025908	7.1194154	-0.379667	0.7128027	0.88492	-6.182534
PIGP	-0.024255	8.3903288	-0.379609	0.7128444	0.88492	-6.182558
CA13	0.0303895	7.2359615	0.3795746	0.7128693	0.88492	-6.182571
ZNF512B	-0.022729	6.803102	-0.379518	0.7129101	0.88492	-6.182594
TRMT2A	-0.025467	6.9905557	-0.379184	0.7131495	0.88502	-6.182727
NEIL3	-0.023102	7.5321443	-0.379167	0.7131617	0.88502	-6.182734
FAM84B	-0.026275	6.7358959	-0.379157	0.7131689	0.88502	-6.182738
SPIN2B	-0.022977	6.8188131	-0.378995	0.713285	0.88509	-6.182803
SLC9A7	0.0343828	7.6225153	0.3786307	0.7135465	0.88527	-6.182948
OSCAR	-0.024039	6.8034172	-0.37862	0.7135542	0.88527	-6.182952
GOLGA2P5	0.0615711	7.0376623	0.3783742	0.7137306	0.88541	-6.18305
NEFH	-0.02628	7.1188247	-0.378214	0.7138454	0.88548	-6.183113
KLF5	0.0257054	6.8114254	0.3780669	0.7139512	0.88554	-6.183172
SLC20A2	-0.030222	7.267979	-0.377972	0.7140196	0.88555	-6.18321
NPR1	0.037073	7.0757894	0.3778531	0.7141047	0.88558	-6.183257
SHPK	0.028568	9.8537026	0.3772486	0.7145387	0.88604	-6.183497
PLPP7	0.0228585	6.8032422	0.3770628	0.7146721	0.88613	-6.183571
PSTPIP1	-0.026007	6.7055508	-0.376963	0.7147437	0.88614	-6.18361
C12orf29	-0.033657	9.316453	-0.376757	0.7148915	0.88625	-6.183692
CAP1	0.0326596	12.354371	0.3765058	0.7150722	0.8864	-6.183792
NBEAL2	-0.032954	8.1198468	-0.37631	0.7152125	0.88643	-6.183869
SDR39U1	0.025764	7.4026206	0.3762998	0.7152202	0.88643	-6.183873
SMIM10L2B	0.0347876	7.1684803	0.3758799	0.7155218	0.88658	-6.184039
AKT2	-0.033668	6.9456916	-0.375837	0.715553	0.88658	-6.184057
NBR1	0.0322815	6.8005625	0.3758161	0.7155677	0.88658	-6.184065
FAM184A	-0.024663	6.8723586	-0.375793	0.7155845	0.88658	-6.184074
ZNF575	-0.02468	6.8427016	-0.37518	0.7160247	0.88705	-6.184316
ANKRD18A	0.0223677	6.9165593	0.3747664	0.716322	0.88711	-6.184479
HS6ST2	0.0284329	6.7940476	0.3747425	0.7163392	0.88711	-6.184489
USP41	-0.025896	7.1878077	-0.37472	0.7163552	0.88711	-6.184497
HDHD5	-0.030362	9.7682172	-0.374548	0.7164789	0.88711	-6.184565
RPL8	0.0464216	11.838108	0.3745366	0.7164872	0.88711	-6.18457

INTS13	0.0468406	8.6130586	0.3744618	0.716541	0.88711	-6.184599
TAS2R43	-0.029423	6.9382506	-0.374458	0.716544	0.88711	-6.184601
KCNMB2	-0.023762	7.04954	-0.374437	0.7165586	0.88711	-6.184609
GAS2L3	-0.027309	6.8425728	-0.374197	0.716731	0.88725	-6.184703
OR2D3	0.0390607	6.950855	0.373911	0.716937	0.88737	-6.184816
KNOP1	0.0238955	7.780381	0.3738909	0.7169514	0.88737	-6.184824
RND1	0.0426017	7.1758036	0.3736206	0.7171458	0.88754	-6.18493
IFT140	0.0253095	6.8770709	0.3734581	0.7172627	0.88755	-6.184994
LOC1000085	0.1131234	12.574202	0.3734335	0.7172804	0.88755	-6.185004
MIR124-2HG	-0.028453	6.8708341	-0.373296	0.7173791	0.8876	-6.185058
HIST2H2AB	-0.024752	6.8482934	-0.372967	0.7176156	0.88782	-6.185187
ZNF18	0.0235119	7.8437	0.3727368	0.7177815	0.88795	-6.185277
GTPBP2	-0.023742	6.8970772	-0.372284	0.7181071	0.88816	-6.185455
LRRC17	-0.023579	6.84376	-0.372284	0.7181074	0.88816	-6.185455
INS	-0.027363	7.010543	-0.372245	0.7181356	0.88816	-6.18547
TBC1D25	-0.02545	7.018445	-0.372005	0.7183083	0.88822	-6.185564
RETNLB	-0.028634	7.0022229	-0.37193	0.7183621	0.88822	-6.185594
MPHOSPH6	-0.02681	7.9586365	-0.371929	0.7183631	0.88822	-6.185594
KRTAP24-1	-0.031965	6.7792432	-0.371676	0.718545	0.88833	-6.185693
BCAM	0.0240166	6.7552593	0.3716367	0.7185731	0.88833	-6.185708
LINC00242	-0.022272	6.7933519	-0.371372	0.7187633	0.88849	-6.185812
MIR99B	-0.030943	6.8804559	-0.371156	0.718919	0.88855	-6.185896
RNF170	-0.034656	7.0929338	-0.371059	0.7189892	0.88855	-6.185934
ADHFE1	-0.043716	7.0921312	-0.370973	0.7190507	0.88855	-6.185968
CPEB1	-0.023553	6.8023614	-0.370949	0.7190684	0.88855	-6.185977
ZSCAN30	-0.026379	6.9153128	-0.370874	0.7191223	0.88855	-6.186006
C20orf203	-0.03693	7.0207914	-0.37068	0.7192617	0.88865	-6.186082
ZNF510	0.0246295	6.8798574	0.3704174	0.7194509	0.88881	-6.186184
OR2W5	-0.025767	7.000254	-0.370239	0.7195791	0.88889	-6.186254
ZNF169	-0.02692	6.9158045	-0.370121	0.7196642	0.8889	-6.1863
ZNF329	0.0232685	6.8407262	0.3699443	0.7197916	0.8889	-6.186369
OR12D2	0.0267236	6.8698202	0.3697921	0.7199012	0.8889	-6.186428
S100PBP	-0.024506	7.9248489	-0.36973	0.7199457	0.8889	-6.186452
PSMB8	-0.026782	9.2585042	-0.369693	0.7199729	0.8889	-6.186467
RPS9	-0.029951	13.596044	-0.36969	0.7199745	0.8889	-6.186468
IDH2	-0.031344	8.2151115	-0.369607	0.7200346	0.8889	-6.1865
RPS6KA1	0.0227688	8.3845543	0.3695548	0.7200721	0.8889	-6.18652
C12orf73	-0.03192	7.2319567	-0.369351	0.7202188	0.889	-6.1866
SLC26A10	-0.025028	6.9818094	-0.369246	0.7202949	0.88902	-6.186641
NDUFA8	-0.033663	11.837808	-0.369074	0.7204185	0.8891	-6.186707
PRAMEF7	0.0384591	6.9972327	0.3684864	0.7208419	0.88955	-6.186936
SERINC2	0.0253368	6.8043262	0.3683779	0.7209201	0.88957	-6.186978
IFNA2	0.0251564	6.8176046	0.3682649	0.7210016	0.88959	-6.187021
CAV2	-0.022123	6.8667934	-0.368018	0.7211799	0.88974	-6.187117
MRPS21	0.0285424	10.774169	0.3678398	0.721308	0.88982	-6.187186

GPR34	-0.021896	6.8241642	-0.366965	0.7219388	0.8903	-6.187525
LINC01096	-0.023488	6.7686018	-0.366952	0.7219481	0.8903	-6.18753
ITK	-0.022739	6.823522	-0.366874	0.7220044	0.8903	-6.18756
CRY2	0.027058	8.1218408	0.3667666	0.7220817	0.8903	-6.187601
TRIO	0.0266374	7.5235206	0.366731	0.7221074	0.8903	-6.187615
GH2	-0.026696	6.8530575	-0.366648	0.7221671	0.8903	-6.187647
TENM3	0.038127	6.7749881	0.3665923	0.7222074	0.8903	-6.187668
ACBD6	-0.023103	8.2676093	-0.366498	0.7222753	0.8903	-6.187705
MARS	0.0386379	10.31697	0.3664754	0.7222918	0.8903	-6.187714
GAGE12H	-0.030819	6.8932137	-0.366396	0.7223491	0.8903	-6.187744
PLCD3	0.0219605	6.8688957	0.3662797	0.7224329	0.8903	-6.187789
ENPP1	0.0254601	7.2254283	0.3662192	0.7224765	0.8903	-6.187812
PDCD6	-0.02825	11.403735	-0.366006	0.72263	0.8903	-6.187894
C6orf106	-0.026138	7.6032358	-0.365908	0.7227008	0.8903	-6.187932
MS4A4A	0.0263201	6.7752843	0.3657807	0.7227928	0.8903	-6.187981
TET1	0.025385	6.8327976	0.3657039	0.7228482	0.8903	-6.188011
CCR8	-0.022577	6.8508048	-0.365668	0.722874	0.8903	-6.188025
APLP1	0.0233648	6.7834394	0.3655112	0.7229873	0.8903	-6.188085
ZBTB10	0.0272114	7.0117354	0.3654711	0.7230162	0.8903	-6.188101
MIS18BP1	-0.026755	9.8010132	-0.365382	0.7230803	0.8903	-6.188135
LOC1002407	0.0313111	6.9659947	0.3653118	0.7231311	0.8903	-6.188162
EDEM3	0.0320351	7.9010188	0.3652907	0.7231463	0.8903	-6.18817
PREP	0.0354984	8.6344367	0.3652093	0.7232051	0.8903	-6.188201
MYDGF	-0.029631	9.6195799	-0.36517	0.7232335	0.8903	-6.188216
TMEM229B	-0.026294	6.8271198	-0.365077	0.7233006	0.8903	-6.188252
REPIN1	-0.033109	8.8064796	-0.365037	0.7233297	0.8903	-6.188268
SH3GLB1	-0.023291	9.8129391	-0.364982	0.7233694	0.8903	-6.188289
GLYCAM1	-0.023828	6.8604479	-0.364816	0.7234891	0.8903	-6.188353
SIGLEC7	-0.02358	6.8443948	-0.364807	0.7234955	0.8903	-6.188356
ZNF544	0.0263169	9.1775014	0.3646847	0.7235837	0.8903	-6.188403
NAA35	0.0280062	7.859927	0.3646045	0.7236416	0.8903	-6.188434
CD24	-0.021623	6.788249	-0.364599	0.7236458	0.8903	-6.188436
S100A13	-0.022679	7.1166016	-0.364299	0.7238619	0.8904	-6.188551
TBC1D7	-0.038644	8.7158103	-0.364243	0.7239027	0.8904	-6.188573
PRELID3B	0.0235331	8.7403558	0.3641456	0.7239728	0.8904	-6.18861
TTC14	-0.022907	7.8595546	-0.364108	0.7240003	0.8904	-6.188624
KIAA1468	-0.032881	8.1192366	-0.364023	0.7240614	0.8904	-6.188657
RCN2	0.0302498	10.182192	0.3639816	0.7240912	0.8904	-6.188673
KHSRP	-0.029989	10.63449	-0.363608	0.724361	0.89055	-6.188816
PCDHGA10	-0.033425	6.9644766	-0.36358	0.7243809	0.89055	-6.188826
ESAM	0.0323043	7.1192269	0.3635389	0.7244108	0.89055	-6.188842
PIGG	0.0310338	7.4765746	0.3634689	0.7244614	0.89055	-6.188869
GTF3C6	0.0279645	8.6788018	0.3631919	0.7246614	0.89067	-6.188975
EEF2KMT	-0.022741	8.1131674	-0.363171	0.7246768	0.89067	-6.188983
ORMDL3	0.034977	7.5782481	0.3628127	0.7249353	0.8909	-6.18912

CBY1	0.0260404	7.9881338	0.3627357	0.7249909	0.8909	-6.189149
SELENOO	0.0328339	7.7933242	0.3625044	0.725158	0.89094	-6.189238
PLAC8	0.028918	10.564337	0.3624398	0.7252046	0.89094	-6.189262
CERS4	-0.049458	7.6706122	-0.362435	0.7252082	0.89094	-6.189264
CD4	-0.025759	6.73158	-0.362132	0.725427	0.89113	-6.18938
HRASLS2	-0.036066	7.1580377	-0.362052	0.7254846	0.89113	-6.18941
MMP25	0.0261888	6.8742986	0.3618027	0.7256649	0.89122	-6.189505
CCDC50	0.0214734	7.9093005	0.3617877	0.7256758	0.89122	-6.189511
SGSM1	-0.028811	6.840729	-0.361597	0.7258137	0.89131	-6.189584
ZBTB25	-0.027096	7.8607629	-0.361518	0.725871	0.89131	-6.189614
DGCR11	0.0342302	7.6249521	0.3613112	0.7260201	0.89142	-6.189693
HECW2	0.0302311	7.1517204	0.3611265	0.7261536	0.8915	-6.189763
RBM47	0.022687	6.7414301	0.3610391	0.7262167	0.8915	-6.189796
GTF2H4	-0.032137	9.1737762	-0.360959	0.7262745	0.8915	-6.189827
TFAP2E	-0.031724	6.794291	-0.360869	0.7263397	0.89151	-6.189861
IDS	-0.028108	9.1057692	-0.360707	0.7264567	0.89152	-6.189922
ZNF571	-0.025388	6.9909139	-0.36069	0.7264693	0.89152	-6.189929
S100A1	0.02629	6.930742	0.3603798	0.7266934	0.89163	-6.190047
MAP7	0.0228032	6.8256092	0.3603084	0.726745	0.89163	-6.190074
PSMC2	0.0316583	11.082286	0.3603062	0.7267466	0.89163	-6.190075
YAP1	0.0251157	6.813558	0.3597739	0.7271315	0.89193	-6.190277
UBAC1	-0.026938	10.594799	-0.359737	0.7271581	0.89193	-6.19029
PTTG2	0.0222993	6.8427059	0.3597168	0.7271727	0.89193	-6.190298
NECAP1	-0.03655	10.210066	-0.359545	0.7272972	0.89201	-6.190363
LMO2	0.0302408	8.2559535	0.3593141	0.727464	0.89205	-6.190451
TERB2	-0.025197	6.8968476	-0.359282	0.7274871	0.89205	-6.190463
MSLNL	-0.024674	6.8233614	-0.359246	0.7275133	0.89205	-6.190477
CDADC1	-0.024457	6.8469272	-0.358963	0.7277182	0.89211	-6.190584
MPZ	0.0301776	7.0531476	0.3588448	0.7278034	0.89211	-6.190628
ZNF570	-0.023627	6.8941523	-0.358781	0.7278494	0.89211	-6.190652
LINC00672	-0.027472	6.8412071	-0.35877	0.7278579	0.89211	-6.190657
PSMB1	-0.042276	12.878769	-0.358752	0.7278708	0.89211	-6.190663
RND2	-0.034826	6.8740631	-0.357943	0.7284556	0.89263	-6.190969
LOC1005075	-0.024948	6.8728232	-0.357903	0.7284848	0.89263	-6.190984
TRIM32	0.0341816	8.5720968	0.3577831	0.7285717	0.89263	-6.191029
TUBB7P	-0.030955	8.4321328	-0.357647	0.7286699	0.89263	-6.19108
CYP2D7	0.0249403	6.8228476	0.3576432	0.7286729	0.89263	-6.191082
KLF1	-0.021602	6.8823442	-0.357552	0.7287393	0.89263	-6.191116
KARS	0.0397506	10.035675	0.3574984	0.7287777	0.89263	-6.191136
NDUFB2	0.0356678	12.520882	0.3574549	0.7288092	0.89263	-6.191153
SV2A	-0.023605	6.7833498	-0.357407	0.728844	0.89263	-6.191171
TMPPE	-0.0239	7.0473084	-0.357293	0.7289267	0.89266	-6.191214
STOML2	-0.024486	11.946255	-0.357099	0.7290667	0.89275	-6.191287
IFNGR1	-0.037777	10.000812	-0.356934	0.729186	0.89282	-6.191349
RUFY3	-0.025592	7.7672237	-0.356791	0.7292897	0.89288	-6.191402

DYDC2	-0.029969	7.1109064	-0.356443	0.7295419	0.89311	-6.191533
SEC23B	0.0236805	10.787405	0.3560894	0.7297979	0.89327	-6.191666
SIPA1L2	0.0226044	6.7245307	0.3560302	0.7298407	0.89327	-6.191688
OR52B6	0.0258597	6.900731	0.3559418	0.7299047	0.89327	-6.191721
VPS53	-0.027897	7.0130424	-0.355822	0.7299916	0.89327	-6.191766
MED10	-0.035875	10.459876	-0.355814	0.7299972	0.89327	-6.191769
MON2	0.0360924	8.4161832	0.3557572	0.7300384	0.89327	-6.191791
MXI1	-0.022405	7.1780976	-0.355352	0.7303317	0.89355	-6.191942
HDAC5	-0.021925	6.8856312	-0.355196	0.7304452	0.8936	-6.192001
ARAP3	0.0222474	6.7740574	0.3549758	0.7306044	0.8936	-6.192083
KCNQ3	-0.026773	6.8695889	-0.354969	0.7306091	0.8936	-6.192086
CYB5D1	0.0239826	9.398085	0.3549636	0.7306133	0.8936	-6.192088
CUL1	-0.031664	9.7966141	-0.354768	0.7307548	0.8937	-6.192161
ZNF254	0.0261387	7.4509426	0.3545898	0.7308841	0.89376	-6.192228
ATOH7	-0.023082	6.9830505	-0.354433	0.7309977	0.89376	-6.192286
CYP2S1	-0.022	6.7698068	-0.35437	0.7310433	0.89376	-6.19231
RGS18	-0.023632	6.8619866	-0.354287	0.7311037	0.89376	-6.192341
CLEC10A	0.0224374	6.8365688	0.3542778	0.7311103	0.89376	-6.192344
C8orf59	0.0263806	11.739976	0.3538141	0.7314463	0.89406	-6.192517
TSKS	0.0214855	6.7302875	0.353761	0.7314848	0.89406	-6.192537
GPR108	0.032079	7.8707947	0.3535471	0.7316398	0.89411	-6.192617
C5orf42	0.0243085	6.8770406	0.3534406	0.731717	0.89411	-6.192656
ARL6IP4	-0.022366	8.0929388	-0.35329	0.7318265	0.89411	-6.192713
C7orf61	0.0275097	6.8807832	0.3530821	0.7319769	0.89411	-6.19279
HAGHL	-0.027722	7.804378	-0.353002	0.7320353	0.89411	-6.19282
YJEFN3	-0.02356	6.9600446	-0.352959	0.732066	0.89411	-6.192836
C6orf62	0.0270573	8.4224433	0.3528885	0.7321173	0.89411	-6.192862
FOXD4	0.0259924	7.0849148	0.3528807	0.732123	0.89411	-6.192865
VTRNA1-1	0.0366852	7.0771125	0.3528473	0.7321472	0.89411	-6.192877
ACCS	0.0214319	6.7202303	0.3528267	0.7321622	0.89411	-6.192885
REG3A	0.0233008	6.9029001	0.3527098	0.7322469	0.89411	-6.192928
CLGN	0.0213018	6.7147595	0.3526825	0.7322667	0.89411	-6.192939
EIF5AL1	-0.021614	6.8504703	-0.352612	0.7323177	0.89411	-6.192965
COBL	-0.022072	6.8504775	-0.352365	0.7324969	0.89425	-6.193057
SEMG1	-0.021798	6.809886	-0.35225	0.7325804	0.89427	-6.193099
BTNL9	0.027893	6.7539053	0.3521743	0.7326352	0.89427	-6.193127
ALDH1L2	-0.026243	7.0116556	-0.351969	0.7327845	0.89438	-6.193204
NOS2	-0.028335	6.9080552	-0.351175	0.7333601	0.89501	-6.193498
MN1	-0.031313	7.0055976	-0.350914	0.7335494	0.89511	-6.193594
CCS	-0.022864	7.7097533	-0.350798	0.7336339	0.89511	-6.193637
ZNRF3	0.025203	6.8323388	0.3507869	0.7336418	0.89511	-6.193641
DNM1P35	0.0286417	6.9328279	0.3507208	0.7336898	0.89511	-6.193666
PPP1R14A	-0.030786	7.5890663	-0.350641	0.7337479	0.89511	-6.193695
PFN2	-0.028147	9.0747238	-0.35028	0.7340096	0.89535	-6.193829
CDC23	-0.03634	10.158351	-0.349937	0.7342588	0.89557	-6.193955

QPRT	-0.031239	9.479474	-0.349732	0.7344077	0.89557	-6.194031
CRB3	-0.02513	7.0413447	-0.349653	0.7344648	0.89557	-6.19406
TMED4	0.0280814	8.6506528	0.3496327	0.7344795	0.89557	-6.194068
HIST2H2BF	-0.024832	6.9154609	-0.34961	0.7344958	0.89557	-6.194076
TALDO1	0.0277301	12.382502	0.3491397	0.7348375	0.89587	-6.194249
RAB38	-0.022896	6.9288387	-0.349017	0.7349267	0.89587	-6.194294
FHL2	-0.02088	6.8584045	-0.348978	0.7349546	0.89587	-6.194309
ATXN1L	0.0213276	7.4783072	0.3489285	0.7349908	0.89587	-6.194327
UBE2G1	0.0244398	9.7762121	0.3484665	0.7353264	0.89616	-6.194497
PKIA	-0.029956	8.4486856	-0.348441	0.7353448	0.89616	-6.194506
SRSF7	0.0306992	10.53395	0.3477982	0.7358119	0.89665	-6.194742
ZFP90	-0.026968	8.663767	-0.346757	0.7365684	0.89743	-6.195123
MAGEL2	-0.029837	7.6100702	-0.346729	0.736589	0.89743	-6.195134
MIR1275	0.0215032	6.9085928	0.3465923	0.7366881	0.89743	-6.195184
BOLA3	0.0263462	12.232867	0.3465793	0.7366976	0.89743	-6.195188
PROS1	-0.026934	6.7945323	-0.346309	0.7368943	0.89745	-6.195287
TMEM52	0.0272247	7.3290127	0.3463016	0.7368995	0.89745	-6.19529
MGST1	0.0204977	6.794921	0.3463	0.7369006	0.89745	-6.19529
MSI2	0.0228461	7.5299155	0.3459954	0.7371221	0.89751	-6.195402
UBE2R2	-0.036003	7.241029	-0.345975	0.7371367	0.89751	-6.195409
GFM1	-0.038279	10.581371	-0.345958	0.7371494	0.89751	-6.195415
ZNF670	0.0264484	6.984019	0.3458033	0.7372617	0.89751	-6.195472
NCSTN	-0.035853	9.8958667	-0.3456	0.7374095	0.89751	-6.195546
KRBA1	-0.027378	8.2711937	-0.345446	0.7375213	0.89751	-6.195602
TEAD4	-0.021709	6.7925586	-0.345387	0.7375647	0.89751	-6.195624
WASH7P	0.0293848	7.2748757	0.3452972	0.7376297	0.89751	-6.195656
FAM234B	0.0284297	7.6031032	0.3452115	0.737692	0.89751	-6.195687
BCL3	0.0358488	8.0824497	0.3452051	0.7376967	0.89751	-6.19569
TCL1A	0.024083	9.9745104	0.3451887	0.7377086	0.89751	-6.195696
TNFAIP8L2	0.0220735	6.8837046	0.3451837	0.7377122	0.89751	-6.195697
KDM6A	0.0268494	7.6783433	0.3450642	0.7377992	0.89751	-6.195741
HSFX1	-0.027263	6.9552836	-0.344995	0.7378492	0.89751	-6.195766
PALM	0.0205846	6.8530694	0.3449605	0.7378746	0.89751	-6.195779
MAP3K12	-0.025205	7.2275169	-0.344811	0.7379832	0.89757	-6.195833
TRO	-0.024209	6.9533586	-0.344468	0.7382331	0.89771	-6.195958
CBX8	0.0343152	7.1705484	0.3444658	0.7382344	0.89771	-6.195959
ABL1	0.0215397	8.045051	0.3444009	0.7382816	0.89771	-6.195982
MINK1	0.0248427	6.9701228	0.3442051	0.738424	0.89773	-6.196053
TCEAL5	0.0325081	6.9023172	0.3441888	0.7384359	0.89773	-6.196059
SPC24	-0.047541	9.1667473	-0.344053	0.7385347	0.89773	-6.196108
ERCC3	-0.032013	8.6778913	-0.344046	0.7385398	0.89773	-6.196111
SDF4	0.0550962	9.4823068	0.3438679	0.7386694	0.89781	-6.196176
CUL2	0.0265121	9.6354186	0.3434748	0.7389554	0.89803	-6.196318
CALCOCO1	0.0305983	6.9840881	0.3434476	0.7389752	0.89803	-6.196328
KDR	-0.029076	6.8986706	-0.343097	0.7392301	0.89821	-6.196455

ABCB4	0.0251454	6.7172173	0.3430359	0.7392748	0.89821	-6.196477
CHN2	0.0248847	6.7847695	0.3429287	0.7393528	0.89821	-6.196516
NUBPL	0.024705	9.5352742	0.34276	0.7394756	0.89821	-6.196577
MAP1B	-0.02153	6.8103239	-0.34273	0.7394975	0.89821	-6.196588
ZZZ3	-0.026153	8.8064597	-0.342655	0.7395521	0.89821	-6.196615
PANK2	-0.027292	9.7743879	-0.34265	0.739556	0.89821	-6.196617
GPR150	-0.02951	6.9211284	-0.342362	0.7397655	0.89836	-6.196721
FGF3	-0.030234	6.8259428	-0.342276	0.739828	0.89836	-6.196752
RNF25	-0.024004	7.4538469	-0.342231	0.7398606	0.89836	-6.196768
VSIG10	-0.03104	6.980816	-0.341962	0.7400564	0.89852	-6.196865
CCDC22	-0.024153	7.5572641	-0.341814	0.7401644	0.89858	-6.196918
BORA	0.020932	9.4423938	0.3414327	0.740442	0.89868	-6.197056
BST1	-0.02052	6.7996639	-0.341399	0.7404666	0.89868	-6.197068
NOMO3	-0.039185	7.2778178	-0.341355	0.7404983	0.89868	-6.197084
WT1-AS	-0.022072	6.7273135	-0.341305	0.7405351	0.89868	-6.197102
PIAS2	0.0233363	8.457103	0.3411502	0.7406478	0.89868	-6.197158
LDHB	-0.027583	12.917495	-0.341142	0.7406537	0.89868	-6.197161
GSR	0.0278824	7.8351622	0.3411031	0.7406821	0.89868	-6.197175
FAM221A	0.0232664	6.7226413	0.3409345	0.7408048	0.89868	-6.197235
OR4M1	0.0376018	6.9789449	0.3407058	0.7409714	0.89868	-6.197317
MMAA	0.028604	7.6301031	0.3403737	0.7412134	0.89868	-6.197437
SPN	0.0227894	7.0929214	0.3403628	0.7412213	0.89868	-6.197441
CCDC87	0.0238848	6.8982645	0.3402202	0.7413252	0.89868	-6.197492
CHST1	-0.024683	7.0364648	-0.340206	0.7413352	0.89868	-6.197497
RAB7A	0.0317426	11.27341	0.3401786	0.7413555	0.89868	-6.197507
PYHIN1	-0.026488	7.4813437	-0.340119	0.7413991	0.89868	-6.197528
PCYT1A	-0.024553	6.8473043	-0.340038	0.7414583	0.89868	-6.197557
TMSB4X	-0.021755	11.73461	-0.340032	0.7414623	0.89868	-6.197559
ALG8	-0.023021	8.6627468	-0.34	0.7414857	0.89868	-6.197571
SPESP1	-0.029607	6.8236095	-0.339991	0.7414922	0.89868	-6.197574
GTF2IP1	0.0321568	8.6170727	0.3399311	0.7415359	0.89868	-6.197596
KIAA0391	-0.029118	10.013585	-0.33983	0.7416093	0.89868	-6.197632
ITM2B	-0.023	8.0473772	-0.339828	0.7416111	0.89868	-6.197633
REEP3	-0.027616	6.7999759	-0.339721	0.7416887	0.89868	-6.197671
ANKRD24	0.0359527	7.085313	0.3396024	0.7417754	0.89868	-6.197713
AMOT	0.0286876	6.8579372	0.3395836	0.7417891	0.89868	-6.19772
FADS3	0.0249218	6.956066	0.3393136	0.7419859	0.89877	-6.197817
ATAT1	0.0244001	7.0112204	0.3392393	0.74204	0.89877	-6.197843
BAG4	0.0255046	7.3461803	0.3392313	0.7420458	0.89877	-6.197846
ZFAT	0.0220018	6.8362683	0.3390038	0.7422117	0.89877	-6.197928
GIMAP1	0.0215895	6.7326499	0.3388967	0.7422897	0.89877	-6.197966
ZNF585B	0.0260124	6.9712849	0.3387632	0.742387	0.89877	-6.198014
ATP23	0.0243153	9.9341705	0.3386892	0.742441	0.89877	-6.19804
ZNF765	-0.021583	7.0069477	-0.338664	0.7424591	0.89877	-6.198049
SFT2D3	-0.023605	7.3609976	-0.338657	0.7424643	0.89877	-6.198052

SMU1	-0.035372	8.6244843	-0.338638	0.7424783	0.89877	-6.198059
RAB6A	0.0212776	7.5580321	0.3384779	0.7425951	0.89882	-6.198116
PLEKHG4	0.0353043	7.7509851	0.3384172	0.7426393	0.89882	-6.198137
FUT10	-0.021912	6.7603258	-0.338151	0.7428336	0.89898	-6.198233
LOC1001282	0.0434004	9.4869563	0.3380366	0.7429168	0.89898	-6.198273
RNY4	0.0591686	8.1204448	0.3379729	0.7429632	0.89898	-6.198296
TRIP10	0.0335551	7.0782226	0.3376043	0.743232	0.89922	-6.198427
PIGN	0.0231837	8.5635094	0.33744	0.7433518	0.89922	-6.198486
CYCS	-0.023438	8.9806186	-0.337434	0.7433564	0.89922	-6.198488
ZCWPW2	-0.026517	6.9116325	-0.337327	0.7434342	0.89922	-6.198526
ST6GALNAC	0.025551	8.11954	0.3372854	0.7434646	0.89922	-6.198541
NEDD4	0.0276805	7.1710216	0.3367824	0.7438315	0.89958	-6.19872
IFNL1	0.025666	6.7500331	0.3367015	0.7438906	0.89958	-6.198749
MRNIP	0.0297666	7.0218801	0.3365201	0.7440229	0.89965	-6.198813
RIPOR3	0.0234701	6.8439073	0.3363924	0.7441161	0.89965	-6.198858
ATAD1	0.0247371	8.9390653	0.3362914	0.7441897	0.89965	-6.198894
S100A8	-0.02162	6.9114144	-0.336218	0.7442435	0.89965	-6.19892
RNF165	-0.022486	6.7825332	-0.336205	0.7442527	0.89965	-6.198925
TRPM2	-0.027987	6.7452152	-0.335945	0.7444427	0.8998	-6.199017
CENPL	0.0480094	8.7754094	0.3358405	0.7445188	0.89982	-6.199054
C16orf74	-0.025877	6.8321472	-0.33572	0.7446069	0.89985	-6.199097
LOC730268	-0.021003	6.881375	-0.33562	0.7446797	0.89987	-6.199132
TOMM20L	0.0232543	6.7723313	0.3354478	0.7448054	0.8999	-6.199193
SHROOM4	-0.028526	7.7198647	-0.335341	0.7448836	0.8999	-6.199231
NRTN	0.0280626	6.6930701	0.335319	0.7448994	0.8999	-6.199239
CCNJ	-0.032155	6.9503796	-0.335241	0.7449564	0.8999	-6.199267
UBALD2	-0.023782	8.0108036	-0.334875	0.7452237	0.90015	-6.199396
KIF24	0.0241524	7.4880034	0.3347388	0.7453229	0.9002	-6.199444
PQLC3	-0.023799	8.1757665	-0.33408	0.745804	0.90048	-6.199677
ZNF700	0.0266523	7.9362795	0.3340629	0.7458164	0.90048	-6.199683
THOC3	-0.025094	10.04804	-0.333895	0.7459389	0.90048	-6.199742
RTN4	-0.020121	8.5370199	-0.333558	0.7461852	0.90048	-6.199861
RNF10	0.0295449	8.2317912	0.3334944	0.7462316	0.90048	-6.199883
NAT6	0.0243265	7.4982309	0.3334879	0.7462364	0.90048	-6.199885
LINC01311	-0.024018	6.9936312	-0.333474	0.7462468	0.90048	-6.19989
ZNF672	0.0297476	9.485011	0.3333895	0.7463082	0.90048	-6.19992
MAT2A	-0.031266	12.204367	-0.33336	0.7463298	0.90048	-6.19993
WWP1	0.0354757	9.5643343	0.3333542	0.746334	0.90048	-6.199932
METTL17	-0.025299	8.4934171	-0.333348	0.7463388	0.90048	-6.199935
NPY5R	-0.035114	7.1983374	-0.333342	0.7463431	0.90048	-6.199937
HDAC7	0.0270335	7.3184987	0.3332911	0.7463801	0.90048	-6.199955
CALR	-0.046535	10.833713	-0.3332	0.7464467	0.90048	-6.199987
MITF	-0.020866	6.8551416	-0.333151	0.7464826	0.90048	-6.200004
LRRC61	0.030671	7.0546196	0.3329181	0.7466526	0.90061	-6.200086
TGM5	-0.019959	6.8089084	-0.332778	0.7467547	0.90062	-6.200135

MTCL1	0.0232307	6.7993222	0.3327378	0.7467843	0.90062	-6.200149
NOD1	0.0225188	7.1241553	0.332185	0.7471882	0.90103	-6.200343
EIF4EBP3	-0.021305	7.4128622	-0.331704	0.7475399	0.90138	-6.200512
SCARF2	0.0256315	6.9174862	0.3315704	0.7476373	0.9014	-6.200558
TRMT10A	-0.026433	7.7655615	-0.331509	0.7476822	0.9014	-6.20058
RALGAPA2	-0.021223	6.8251637	-0.331398	0.7477632	0.9014	-6.200619
ETF1	-0.026945	10.073574	-0.331343	0.7478038	0.9014	-6.200638
MRM1	-0.028366	7.2263165	-0.331123	0.7479642	0.90146	-6.200715
LAMB1	-0.022753	6.8746232	-0.331033	0.7480304	0.90146	-6.200746
RABAC1	0.037364	10.186471	0.3310233	0.7480373	0.90146	-6.20075
TPCN2	-0.031293	7.3410557	-0.330825	0.7481826	0.90153	-6.200819
CCDC9	0.0333757	6.8517259	0.3307749	0.7482189	0.90153	-6.200837
CLPP	-0.023934	9.8385618	-0.330621	0.7483316	0.90159	-6.20089
FOS	-0.022631	6.8228525	-0.330151	0.748675	0.90181	-6.201054
ESR2	-0.032009	7.1127083	-0.330141	0.7486821	0.90181	-6.201058
APP	0.0204259	6.8814564	0.3299905	0.7487925	0.90181	-6.20111
C9orf129	0.0214235	6.803606	0.3299118	0.74885	0.90181	-6.201138
FAM212B	-0.023111	7.0643714	-0.329724	0.7489876	0.90181	-6.201203
CPM	0.0227286	6.9699935	0.3297103	0.7489973	0.90181	-6.201208
IL37	-0.029169	6.8949446	-0.329666	0.7490299	0.90181	-6.201223
MIR335	-0.024631	6.8984339	-0.329593	0.749083	0.90181	-6.201248
CCDC120	0.026011	7.0430465	0.3294966	0.7491537	0.90181	-6.201282
PSMB7	0.0228985	12.247979	0.3294958	0.7491543	0.90181	-6.201282
DCTN5	-0.023456	9.4580426	-0.329368	0.749248	0.90181	-6.201327
SCAMP4	0.0245248	7.1293752	0.3293034	0.749295	0.90181	-6.201349
LAT2	-0.025653	7.9100834	-0.329281	0.7493115	0.90181	-6.201357
BCL2L2	0.0250591	8.2506562	0.3289316	0.749567	0.90188	-6.201479
C22orf46	0.0255912	7.4641807	0.3289021	0.7495886	0.90188	-6.201489
KIAA0895L	0.0250938	6.9193406	0.32878	0.7496779	0.90188	-6.201531
USP2	-0.020105	6.9172248	-0.328651	0.7497721	0.90188	-6.201576
YIPF6	0.0306255	8.8203043	0.3285627	0.7498369	0.90188	-6.201607
EFCAB3	0.0220192	6.8883388	0.328542	0.749852	0.90188	-6.201614
CNKSR2	-0.030295	6.9358633	-0.328286	0.750039	0.90188	-6.201702
TMEM94	-0.040913	7.2199506	-0.328232	0.7500791	0.90188	-6.201721
FRMD4B	-0.035009	6.8771494	-0.328132	0.7501519	0.90188	-6.201756
TICAM1	0.0290621	8.4149599	0.3280784	0.7501913	0.90188	-6.201775
ANO8	0.0319065	7.0701761	0.3280669	0.7501997	0.90188	-6.201779
C21orf33	0.0213752	10.008023	0.3279953	0.7502521	0.90188	-6.201803
DIDO1	0.023368	7.3200058	0.3279932	0.7502536	0.90188	-6.201804
LOXL4	-0.020475	6.8314667	-0.327907	0.7503169	0.90188	-6.201834
PLEKHG1	-0.022222	8.0642786	-0.327711	0.7504605	0.90188	-6.201902
LINC01098	-0.021803	7.1068479	-0.327625	0.7505234	0.90188	-6.201932
RGS20	0.0199949	6.7940323	0.3275298	0.7505928	0.90188	-6.201964
AHCYL2	0.0349386	7.2789061	0.3275129	0.7506052	0.90188	-6.20197
XKR6	0.0216855	7.1020178	0.3274759	0.7506322	0.90188	-6.201983

CCL25	-0.020687	6.8682026	-0.327418	0.7506749	0.90188	-6.202003
UAP1L1	0.0205329	7.3678798	0.3273816	0.7507013	0.90188	-6.202016
TIFA	-0.028357	8.617513	-0.327291	0.7507673	0.90188	-6.202047
PIP5K1C	-0.028198	7.5046139	-0.327257	0.7507923	0.90188	-6.202059
HIF1AN	0.0262563	7.8842164	0.3270823	0.7509204	0.90196	-6.202119
ZKSCAN1	0.0383334	6.8689421	0.326971	0.7510019	0.90198	-6.202158
9-Mar	-0.033421	7.0617653	-0.326771	0.751148	0.90201	-6.202226
C1orf137	0.0288727	6.8357204	0.326765	0.7511527	0.90201	-6.202229
VPS45	-0.023164	8.6888538	-0.326599	0.7512744	0.90203	-6.202286
TFCP2	-0.022097	7.6133861	-0.326435	0.7513942	0.90203	-6.202342
TRMT10B	0.020127	7.4502116	0.3263446	0.7514606	0.90203	-6.202374
OR2B2	-0.039115	7.0248284	-0.326236	0.7515404	0.90203	-6.202411
LAIR1	-0.025665	10.810998	-0.3262	0.7515666	0.90203	-6.202424
RPS19	0.030852	14.341824	0.3261269	0.75162	0.90203	-6.202449
MYB	-0.026757	10.359906	-0.326102	0.7516382	0.90203	-6.202457
EME2	0.0257252	6.839718	0.3260765	0.7516568	0.90203	-6.202466
KIFC2	-0.034632	8.4383735	-0.32593	0.7517644	0.90204	-6.202517
CISH	0.0239498	6.8090378	0.3258798	0.7518009	0.90204	-6.202534
TIMM10	-0.035638	10.448295	-0.325809	0.7518528	0.90204	-6.202558
ZNF416	0.0224843	6.7092121	0.3254013	0.7521514	0.90232	-6.202698
LUZP1	-0.026838	9.2615794	-0.325317	0.7522133	0.90232	-6.202727
ABAT	-0.019839	6.8664312	-0.325158	0.75233	0.90235	-6.202782
LEMD3	0.0228102	9.4262438	0.3251179	0.752359	0.90235	-6.202796
EOMES	0.0242235	6.8974317	0.3242961	0.7529612	0.90296	-6.203078
SNX25	-0.026315	8.3328716	-0.324193	0.7530366	0.90296	-6.203113
VBP1	-0.025467	10.912386	-0.324172	0.7530523	0.90296	-6.20312
SIRPB1	-0.020738	6.738726	-0.32394	0.753222	0.90309	-6.203199
IQCB1	0.0246302	8.1997856	0.3236832	0.7534104	0.90324	-6.203287
MAPK10	0.0223903	6.9157698	0.3234185	0.7536044	0.90332	-6.203378
C1orf162	0.0229435	7.2690888	0.3234181	0.7536047	0.90332	-6.203378
ZC3H14	-0.019476	8.0213865	-0.323166	0.7537892	0.90347	-6.203464
ZNF451	0.032333	7.8466942	0.3224597	0.7543074	0.90391	-6.203705
MIS18A	-0.030551	8.4959956	-0.322436	0.7543249	0.90391	-6.203713
MAGIX	0.023158	6.8721277	0.3224152	0.75434	0.90391	-6.20372
CFD	-0.020316	6.7811396	-0.322079	0.7545865	0.90408	-6.203835
MUC4	0.0252791	7.0012589	0.3220516	0.7546066	0.90408	-6.203844
SLC27A1	-0.023156	6.8858651	-0.32153	0.754989	0.90422	-6.204021
EGFR	0.0260684	6.9081871	0.3215161	0.7549994	0.90422	-6.204026
SNX19	0.0271292	7.3155161	0.3214375	0.755057	0.90422	-6.204053
CNPY3	0.0383396	8.2947656	0.3214122	0.7550756	0.90422	-6.204061
KCNMA1	-0.03071	8.4537876	-0.321345	0.7551247	0.90422	-6.204084
NACA2	0.0205953	8.1342897	0.3212996	0.7551582	0.90422	-6.2041
WDPCP	0.0215521	6.8682399	0.3212951	0.7551615	0.90422	-6.204101
GHITM	-0.034399	12.632095	-0.321172	0.7552517	0.90423	-6.204143
C7orf65	-0.033728	7.0145362	-0.32112	0.7552899	0.90423	-6.20416

FAM86EP	-0.023244	6.809586	-0.320881	0.7554656	0.90428	-6.204242
BVES	-0.026294	6.9029727	-0.320823	0.7555077	0.90428	-6.204261
SLC35G2	0.023605	6.7577971	0.3208032	0.7555224	0.90428	-6.204268
HACE1	-0.020357	7.3708256	-0.320686	0.7556081	0.90431	-6.204307
PEBP1	0.0205417	11.522809	0.3205344	0.7557197	0.90437	-6.204359
RNF207	-0.019778	6.8304123	-0.320259	0.7559218	0.90454	-6.204452
PNRC1	-0.020105	6.8534927	-0.320071	0.7560598	0.90463	-6.204516
KCTD10	-0.023418	8.0942867	-0.319933	0.7561613	0.90464	-6.204563
SKP1	-0.019378	9.5248259	-0.319894	0.7561898	0.90464	-6.204576
ADAMTS1	0.0227001	6.8285961	0.3196759	0.7563497	0.90468	-6.204649
CDR2	-0.026628	9.0591583	-0.319673	0.7563515	0.90468	-6.20465
PRSS42	0.0270038	6.9684858	0.3193103	0.756618	0.90478	-6.204773
FN1	0.0196225	6.978059	0.3192687	0.7566486	0.90478	-6.204787
TPBG	0.0219304	6.9334842	0.319172	0.7567196	0.90478	-6.204819
TMEM268	-0.020781	8.4884015	-0.319161	0.7567275	0.90478	-6.204823
CCDC66	0.0325207	7.7869334	0.3191393	0.7567436	0.90478	-6.20483
RIMS4	-0.021467	6.9552752	-0.318911	0.7569115	0.90491	-6.204908
TNFSF15	-0.022792	7.2782101	-0.318231	0.7574107	0.90543	-6.205136
PHKA2	-0.036442	8.6423332	-0.317997	0.7575827	0.90548	-6.205215
TEX47	-0.026885	6.7305216	-0.317987	0.75759	0.90548	-6.205219
CX3CL1	-0.026188	6.8736005	-0.317925	0.7576354	0.90548	-6.205239
FAAH2	-0.02135	6.8688368	-0.317791	0.7577333	0.90552	-6.205284
OMG	0.0229111	6.9115444	0.3175525	0.7579089	0.90559	-6.205364
ZCCHC8	-0.021671	7.9892215	-0.31754	0.7579182	0.90559	-6.205369
GNB3	0.0255892	7.0958948	0.3174198	0.7580063	0.90562	-6.205409
ZNF532	0.0293562	7.9096236	0.3173237	0.758077	0.90563	-6.205441
C19orf38	-0.028639	7.1183845	-0.31721	0.7581604	0.90566	-6.205479
RRP9	0.0519336	7.7539005	0.3171126	0.758232	0.90567	-6.205512
PAPOLA	-0.030731	10.929344	-0.316711	0.7585272	0.90595	-6.205646
ZNF251	-0.02587	7.1157447	-0.316395	0.7587592	0.90615	-6.205752
POLR2E	-0.024213	7.9578915	-0.31619	0.7589098	0.90626	-6.205821
DXO	0.0336218	8.0521472	0.3158978	0.7591247	0.90637	-6.205918
TBRG4	-0.020233	8.8168564	-0.315815	0.7591855	0.90637	-6.205946
PHF19	0.0262034	8.6768784	0.3158083	0.7591905	0.90637	-6.205948
RAB12	0.0271453	7.3992388	0.3154057	0.7594864	0.9065	-6.206082
KLF2	0.0352053	7.074687	0.3152914	0.7595705	0.9065	-6.206121
VWA3A	0.0245823	7.0043499	0.3152695	0.7595866	0.9065	-6.206128
TCF7	0.0227843	6.7761576	0.3152311	0.7596148	0.9065	-6.206141
RPL39L	-0.024656	9.8339732	-0.315163	0.7596645	0.9065	-6.206163
ISG15	0.0249199	9.8412916	0.3151547	0.7596709	0.9065	-6.206166
HBQ1	0.01978	6.7678652	0.3150212	0.759769	0.90654	-6.20621
PML	-0.020419	6.8745692	-0.314921	0.7598431	0.90656	-6.206244
C8orf31	-0.023759	6.7936968	-0.314836	0.7599054	0.90656	-6.206272
ITPRIPL1	0.0241195	7.1672642	0.3145423	0.7601212	0.90674	-6.20637
ZP3	-0.031036	7.3298419	-0.314253	0.7603339	0.90675	-6.206466

ANXA7	-0.038291	11.093422	-0.31416	0.760402	0.90675	-6.206497
PEX11A	0.0218325	7.3568422	0.3141205	0.7604314	0.90675	-6.20651
GFER	0.0214164	6.9426182	0.3141012	0.7604456	0.90675	-6.206516
ZKSCAN4	0.0326804	7.5192523	0.3140765	0.7604637	0.90675	-6.206525
HBP1	-0.024448	7.4157687	-0.314021	0.7605048	0.90675	-6.206543
KLHL5	-0.020346	8.7591017	-0.313844	0.7606349	0.90683	-6.206602
INO80B	0.0217369	8.0411149	0.3136827	0.7607534	0.90683	-6.206655
SETMAR	-0.030493	9.4228359	-0.313598	0.7608159	0.90683	-6.206683
RNU6-1	0.0417878	11.06401	0.313589	0.7608223	0.90683	-6.206686
POU3F2	-0.019222	6.7755825	-0.313513	0.7608779	0.90683	-6.206711
SH3PXD2A	-0.029199	8.4698737	-0.313386	0.7609716	0.90687	-6.206754
SLC35B4	-0.022612	8.3790981	-0.313167	0.7611325	0.90698	-6.206826
LIN52	-0.040529	7.8493005	-0.312952	0.7612912	0.90706	-6.206897
OR2T12	-0.019804	6.965536	-0.31289	0.7613362	0.90706	-6.206918
BLMH	-0.029795	9.6387482	-0.31283	0.7613804	0.90706	-6.206938
AHNAK	0.0204385	6.8224074	0.3125164	0.7616114	0.90711	-6.207041
RRN3P2	0.0201841	7.1776188	0.3124292	0.7616756	0.90711	-6.20707
RAP2C	-0.028959	8.694106	-0.312127	0.7618978	0.90711	-6.20717
NAP1L2	-0.026676	7.0596211	-0.312073	0.7619376	0.90711	-6.207188
THAP6	0.0380562	7.6368613	0.3119999	0.7619915	0.90711	-6.207212
TUT1	0.0370122	7.9872202	0.311997	0.7619936	0.90711	-6.207213
ERVW-1	-0.032084	6.9613608	-0.311859	0.7620949	0.90711	-6.207258
TBC1D3B	-0.028195	7.056006	-0.311855	0.7620979	0.90711	-6.20726
AIFM1	0.0263998	8.6679023	0.3117873	0.762148	0.90711	-6.207282
TWIST2	0.0229265	6.9715413	0.3117437	0.7621801	0.90711	-6.207296
SNORD96A	0.0257303	8.1775765	0.3116995	0.7622126	0.90711	-6.207311
PHOX2B	0.0197978	6.7895944	0.3116445	0.7622531	0.90711	-6.207329
ATP6V1F	0.0219728	11.933306	0.3115752	0.7623041	0.90711	-6.207352
TRPS1	0.0296567	7.1647414	0.3115259	0.7623403	0.90711	-6.207368
LOC1001305	-0.024079	6.8196575	-0.311418	0.7624195	0.90711	-6.207403
TIMM21	0.0256751	10.653214	0.3113737	0.7624524	0.90711	-6.207418
LTK	0.033589	6.9244934	0.3113184	0.7624931	0.90711	-6.207436
LGALS3	-0.023617	6.8237492	-0.311179	0.7625959	0.90711	-6.207482
NEK7	-0.034189	7.2511023	-0.311169	0.7626033	0.90711	-6.207486
TAF1A	0.0188883	7.1777852	0.3110304	0.7627051	0.90715	-6.207531
SCIMP	-0.020778	7.5706391	-0.310906	0.7627964	0.90716	-6.207572
RAB2B	0.0281267	10.394337	0.3108593	0.7628311	0.90716	-6.207587
GPD1L	-0.031187	10.356289	-0.310449	0.763133	0.90743	-6.207722
LINC00854	0.0243532	7.006606	0.3103681	0.7631928	0.90743	-6.207749
KRI1	-0.019284	7.6622904	-0.310242	0.7632855	0.90743	-6.20779
ZNF225	-0.019452	6.8944098	-0.310211	0.7633086	0.90743	-6.2078
CPVL	-0.01863	6.7669744	-0.310035	0.7634379	0.90746	-6.207858
ELOVL2	0.0211459	6.7679459	0.3100097	0.7634567	0.90746	-6.207866
PHF1	-0.02169	7.2583163	-0.309675	0.7637036	0.90768	-6.207976
LOC81691	-0.022949	7.5424144	-0.309443	0.7638743	0.9078	-6.208052

P2RX6P	-0.018696	6.8999804	-0.309225	0.7640347	0.90792	-6.208123
OPLAH	-0.024472	6.7408232	-0.308991	0.7642074	0.90805	-6.2082
SIAH1	0.0202744	8.4275128	0.3086117	0.7644865	0.90831	-6.208324
DENND5A	-0.021808	6.7807288	-0.308448	0.764607	0.90834	-6.208377
MON1B	0.0285267	7.5983794	0.3084136	0.7646325	0.90834	-6.208388
INPP5J	-0.019858	6.7573919	-0.308175	0.7648083	0.90847	-6.208466
KCNQ4	-0.022015	6.8193175	-0.307972	0.7649576	0.90852	-6.208532
SLC6A8	0.030385	6.8256706	0.307955	0.7649705	0.90852	-6.208538
HCST	-0.024233	8.4309383	-0.30775	0.7651217	0.90856	-6.208604
AP2A2	-0.031854	7.1581513	-0.307694	0.7651627	0.90856	-6.208623
TMEM144	-0.024128	6.6967668	-0.307556	0.7652642	0.90856	-6.208667
WDR66	0.0244921	8.2407838	0.3074138	0.7653694	0.90856	-6.208714
FANCB	0.0207101	7.6796095	0.30737	0.7654017	0.90856	-6.208728
NGB	0.0200141	6.7986511	0.3073484	0.7654176	0.90856	-6.208735
RPS6KA2	0.0216539	6.8500838	0.3073167	0.7654409	0.90856	-6.208745
DHRS4L1	0.0185771	7.0063733	0.3070478	0.7656391	0.90865	-6.208833
BCORL1	-0.02589	6.984919	-0.307038	0.7656461	0.90865	-6.208836
TES	-0.020444	7.3446098	-0.306822	0.7658057	0.90877	-6.208906
RIBC2	-0.022984	6.7046073	-0.306683	0.7659082	0.90882	-6.208951
LINC00173	-0.019474	7.1382115	-0.306493	0.7660479	0.90886	-6.209013
TP53BP2	-0.024223	7.2458045	-0.306273	0.7662102	0.90886	-6.209084
NFAT5	-0.025114	7.1148723	-0.306138	0.7663099	0.90886	-6.209128
FAM189A1	-0.027616	6.9935439	-0.306125	0.7663197	0.90886	-6.209132
ERICH1	-0.02307	8.7177759	-0.306094	0.7663426	0.90886	-6.209142
ZBTB7A	0.0251251	7.5877841	0.3059615	0.7664401	0.90886	-6.209185
SLC38A11	0.031522	6.8834635	0.3056053	0.7667028	0.90886	-6.2093
PKN3	-0.02632	6.9805802	-0.305493	0.7667857	0.90886	-6.209336
CHST10	0.021733	7.4996279	0.3053511	0.7668903	0.90886	-6.209382
SPAG4	-0.025702	6.9856722	-0.305059	0.767106	0.90886	-6.209477
EPPIN	-0.01989	6.8970875	-0.305052	0.7671107	0.90886	-6.209479
METRNL	0.0209063	6.9264334	0.3049994	0.7671497	0.90886	-6.209496
ARHGEF37	0.0185731	6.8880215	0.3048879	0.767232	0.90886	-6.209532
SERGEF	0.019661	8.847441	0.304859	0.7672533	0.90886	-6.209541
NXF2	0.019207	6.8692829	0.3047646	0.767323	0.90886	-6.209571
CWC27	-0.024711	9.63034	-0.304654	0.7674049	0.90886	-6.209607
KIF4A	0.0204823	8.0089312	0.3046272	0.7674244	0.90886	-6.209616
SCARB2	0.0332658	8.3041804	0.3045062	0.7675136	0.90886	-6.209655
OR7E156P	-0.031094	7.6687062	-0.304497	0.7675206	0.90886	-6.209658
HIST1H1A	-0.031609	7.3407629	-0.304484	0.7675304	0.90886	-6.209662
CSNK1A1	-0.019529	7.7360289	-0.304442	0.7675613	0.90886	-6.209676
RAPSN	0.0191979	6.8449651	0.3044089	0.7675854	0.90886	-6.209686
GTF2IRD1	0.0193329	6.885599	0.3043486	0.7676299	0.90886	-6.209705
SERPINI2	0.0221883	6.7569097	0.3043421	0.7676347	0.90886	-6.209708
B4GALT2	0.0228283	7.4264397	0.3042916	0.767672	0.90886	-6.209724
GTF2IRD2P1	-0.026446	6.9347783	-0.304202	0.7677382	0.90886	-6.209753

SHF	-0.030971	6.8911203	-0.304198	0.7677412	0.90886	-6.209754
IRF2BP1	0.0322293	7.3652812	0.3041035	0.7678108	0.90886	-6.209784
BMS1P20	0.0281086	7.6406986	0.3040283	0.7678663	0.90886	-6.209809
SNORA58	-0.024061	7.1187859	-0.304028	0.7678664	0.90886	-6.209809
CHMP6	0.0226018	7.0765098	0.3040154	0.7678758	0.90886	-6.209813
BTBD10	-0.027214	8.8055938	-0.303802	0.7680334	0.90897	-6.209881
RNF11	0.0255395	7.8497284	0.3031671	0.7685019	0.90937	-6.210085
CELF2	0.0180468	6.7921532	0.3031281	0.7685307	0.90937	-6.210098
HNRNPH1	0.0273915	9.6415467	0.3030914	0.7685578	0.90937	-6.210109
CTXN1	0.0209231	10.263412	0.3029886	0.7686336	0.90939	-6.210142
KATNB1	0.0244023	9.3697475	0.3029022	0.7686975	0.90939	-6.21017
TNFRSF6B	-0.022329	6.9471627	-0.302376	0.7690862	0.90978	-6.210339
NXNL1	-0.024109	6.9132616	-0.302144	0.769257	0.9099	-6.210413
NAV2	0.0184852	6.9098396	0.3020403	0.7693338	0.90992	-6.210446
NMI	0.0325433	8.0992162	0.301818	0.769498	0.90995	-6.210517
BMP1	-0.019376	6.9656972	-0.301766	0.7695361	0.90995	-6.210533
ALMS1P1	0.0230344	6.9229962	0.3017304	0.7695627	0.90995	-6.210545
ATG4B	0.0299473	8.0694762	0.3016236	0.7696415	0.90995	-6.210579
KANSL3	-0.019632	10.010643	-0.301507	0.769728	0.90995	-6.210616
SNORD5	-0.022951	6.8251706	-0.301496	0.7697359	0.90995	-6.21062
ZNF816	0.0218803	7.9382775	0.3012693	0.7699032	0.91008	-6.210692
SLC25A15	0.0192816	8.8252075	0.3005364	0.7704446	0.91061	-6.210925
MAF1	0.0283646	8.141305	0.3004917	0.7704776	0.91061	-6.210939
RHEBL1	0.0211555	6.9553584	0.2998478	0.7709534	0.91108	-6.211144
SLC9A3	0.0203822	6.8399565	0.2997863	0.7709988	0.91108	-6.211163
UBE2H	0.0252841	7.5542085	0.2995778	0.771153	0.91119	-6.21123
STK25	-0.026506	9.3105912	-0.2992	0.7714325	0.91144	-6.211349
DUSP22	0.0246224	10.378941	0.299087	0.7715157	0.91147	-6.211385
CCDC113	0.0293467	6.959024	0.2987464	0.7717675	0.91163	-6.211493
ZNF441	0.0198752	6.7710415	0.2987323	0.7717779	0.91163	-6.211497
SLC22A23	-0.020533	7.0609747	-0.298581	0.7718898	0.91169	-6.211545
CLTA	0.0233558	10.567603	0.2983632	0.7720508	0.91169	-6.211614
PINK1	0.0275578	6.9663928	0.2982793	0.7721128	0.91169	-6.21164
RN7SL1	-0.020035	13.650256	-0.298255	0.7721311	0.91169	-6.211648
VRK3	0.0279532	7.9111328	0.2982374	0.7721438	0.91169	-6.211654
RAB28	-0.019943	8.1727653	-0.297975	0.7723378	0.91185	-6.211736
CDS1	0.0243949	6.7892674	0.2978286	0.772446	0.91187	-6.211783
IAH1	-0.020341	6.9356565	-0.297782	0.7724803	0.91187	-6.211797
ARMT1	-0.031383	7.7842532	-0.297461	0.7727179	0.91202	-6.211898
C1orf35	0.0212376	8.0262804	0.2972917	0.7728431	0.91202	-6.211952
ASGR2	-0.037999	6.9558412	-0.297235	0.7728849	0.91202	-6.211969
SPOPL	-0.026999	7.489575	-0.297182	0.7729245	0.91202	-6.211986
TTF1	0.020858	8.0022781	0.2971188	0.772971	0.91202	-6.212006
CCDC27	0.0227106	6.8481945	0.2970993	0.7729854	0.91202	-6.212012
RCOR2	-0.018565	6.7757213	-0.296973	0.7730787	0.91206	-6.212052

RHPN1	0.0191857	6.8801803	0.2967713	0.7732281	0.91216	-6.212115
NEIL2	-0.027569	7.4123196	-0.296691	0.7732873	0.91216	-6.21214
GABRG2	0.0181889	6.7824261	0.2961764	0.7736681	0.91246	-6.212302
NOP58	0.030793	10.567608	0.2961734	0.7736704	0.91246	-6.212303
ELP5	-0.020046	7.8892891	-0.296007	0.7737933	0.91248	-6.212355
NOS3	-0.027306	7.998775	-0.295988	0.7738077	0.91248	-6.212361
SNORD108	0.01783	6.8143931	0.2957222	0.7740042	0.91261	-6.212444
BORCS7	-0.018381	8.3826337	-0.295665	0.7740469	0.91261	-6.212462
MYBPC3	0.021115	6.9182802	0.2954515	0.7742045	0.91267	-6.212529
TARSL2	0.0242973	7.4657213	0.2954004	0.7742423	0.91267	-6.212545
ANKRD20A8	-0.025165	7.10272	-0.295348	0.7742815	0.91267	-6.212561
ATP12A	0.019001	6.9072303	0.2951308	0.7744419	0.91278	-6.212629
SNX21	0.0186016	6.842155	0.2950135	0.7745287	0.9128	-6.212666
LRGUK	0.0226727	6.8679443	0.2949402	0.7745829	0.9128	-6.212689
QTRT1	-0.028982	8.0427724	-0.294534	0.7748838	0.91308	-6.212815
SLC25A38	-0.028025	8.4947438	-0.294319	0.7750429	0.9132	-6.212882
ZNF790	-0.0196	6.8156839	-0.294203	0.7751283	0.91322	-6.212918
POU6F1	0.019683	7.0381049	0.2940971	0.7752071	0.91322	-6.212951
NAGLU	0.0356953	7.9723742	0.2940358	0.7752525	0.91322	-6.212971
LINC00937	0.0215295	6.8225065	0.293744	0.7754685	0.9134	-6.213061
FCGR1CP	0.0196028	6.8196262	0.2935576	0.7756065	0.9134	-6.213119
NAIF1	0.0190853	7.6814227	0.2934972	0.7756512	0.9134	-6.213138
SPRY2	-0.020036	6.7654224	-0.293405	0.7757192	0.9134	-6.213167
SNORA50C	0.034028	8.5043833	0.2934024	0.7757214	0.9134	-6.213167
SFMBT2	0.0312432	7.3377977	0.2931037	0.7759427	0.91346	-6.21326
SNHG12	-0.023948	8.2225019	-0.292944	0.7760609	0.91346	-6.21331
MFAP3L	0.0184548	6.7576221	0.2927818	0.776181	0.91346	-6.21336
ZSCAN20	0.0264863	6.9815875	0.2927754	0.7761858	0.91346	-6.213362
CD34	-0.017853	7.0195571	-0.292597	0.776318	0.91346	-6.213417
NEUROG2	0.0254564	7.0951834	0.2925784	0.7763317	0.91346	-6.213423
GNG3	0.0199834	6.9008007	0.2925672	0.77634	0.91346	-6.213426
MNX1	0.0226258	7.1044366	0.2925141	0.7763793	0.91346	-6.213443
SCARNA22	-0.025371	7.0727356	-0.292388	0.7764727	0.91346	-6.213482
ABCA9	0.0253024	7.0105863	0.2921653	0.7766377	0.91346	-6.213551
LOC645202	0.0186358	6.7338564	0.2921416	0.7766553	0.91346	-6.213558
MEIG1	0.0232365	7.017321	0.2921309	0.7766632	0.91346	-6.213562
CD53	-0.01983	10.016248	-0.292068	0.77671	0.91346	-6.213581
SLCO2B1	0.0184376	7.0959181	0.2920608	0.7767152	0.91346	-6.213583
HELLS	0.0205721	8.1609508	0.2920042	0.7767571	0.91346	-6.213601
SLC52A2	0.0483041	9.3256441	0.2918754	0.7768525	0.91346	-6.213641
SLC6A10P	0.0184313	6.7691726	0.2918529	0.7768692	0.91346	-6.213647
NLRC4	0.025559	6.9200345	0.2917883	0.7769171	0.91346	-6.213667
ZC3H8	-0.022569	8.8329241	-0.291737	0.7769553	0.91346	-6.213683
PRMT3	-0.038404	11.24525	-0.291523	0.7771135	0.91357	-6.213749
HLF	-0.026005	6.9600062	-0.291346	0.7772444	0.91357	-6.213804

SORBS3	-0.017244	6.7904736	-0.291299	0.7772795	0.91357	-6.213818
FLCN	-0.017821	6.9596844	-0.291211	0.7773448	0.91357	-6.213846
PITPNB	-0.028239	8.8070419	-0.291183	0.7773653	0.91357	-6.213854
KDM6B	-0.019992	7.0378087	-0.291072	0.7774475	0.91359	-6.213888
PPFIBP1	-0.019717	7.1946593	-0.290881	0.7775894	0.91369	-6.213947
FBXO15	-0.020756	6.7939844	-0.290468	0.7778952	0.91394	-6.214074
PPFIA1	-0.018046	8.2857787	-0.290374	0.7779653	0.91394	-6.214103
MAP3K6	-0.017759	6.8885507	-0.290273	0.7780399	0.91394	-6.214134
LANCL3	0.0216751	6.8255045	0.2902505	0.7780567	0.91394	-6.214141
AGTPBP1	-0.021856	8.1687859	-0.290002	0.7782409	0.91407	-6.214218
ZNF460	0.0295046	6.9459399	0.2899399	0.778287	0.91407	-6.214237
SLC4A8	-0.02754	7.0739332	-0.28977	0.7784126	0.91414	-6.214289
H2AFV	0.023083	7.3500625	0.289573	0.778559	0.91424	-6.214349
UBL4A	-0.023342	8.5799063	-0.28934	0.7787317	0.91425	-6.214421
GFRA4	-0.024435	6.9387997	-0.289266	0.7787866	0.91425	-6.214443
CFL2	0.0231218	7.4987182	0.2892656	0.7787869	0.91425	-6.214443
STRADA	-0.018646	8.7623086	-0.288933	0.7790337	0.91425	-6.214545
PFKFB2	-0.019538	6.9742663	-0.288881	0.7790723	0.91425	-6.214561
OR2T11	-0.01737	6.8968233	-0.288868	0.779082	0.91425	-6.214565
PNPO	-0.025727	10.988288	-0.288766	0.7791572	0.91425	-6.214596
C4orf48	0.0232678	7.3423071	0.2887647	0.7791584	0.91425	-6.214597
CBX1	-0.021395	8.0873437	-0.288763	0.7791599	0.91425	-6.214597
ZNF443	0.0268764	7.323181	0.2886368	0.7792532	0.91425	-6.214636
MIR548G	-0.02486	6.8574563	-0.288539	0.7793255	0.91425	-6.214666
LRFN3	0.0205959	6.7769071	0.288502	0.7793532	0.91425	-6.214677
FGFR1OP	-0.025803	7.8596303	-0.288451	0.779391	0.91425	-6.214693
DGCR6L	-0.018968	8.6671617	-0.288347	0.7794679	0.91425	-6.214724
C5orf34	0.0250852	7.4686501	0.2882249	0.7795587	0.91425	-6.214762
SERINC3	0.0200897	7.8207676	0.2882051	0.7795734	0.91425	-6.214768
DTD2	-0.023854	8.3297664	-0.287901	0.779799	0.91444	-6.21486
SLC37A3	0.0201917	7.0633589	0.2877661	0.7798991	0.91449	-6.214902
ANKRD20A1	0.0179319	6.8151364	0.2873811	0.7801847	0.91472	-6.215019
MAMSTR	-0.020537	7.2074458	-0.287325	0.7802263	0.91472	-6.215036
ITM2A	-0.020979	6.9019689	-0.287248	0.7802836	0.91472	-6.215059
DYM	0.0353739	9.7218626	0.2869698	0.7804899	0.91489	-6.215144
TARP	-0.02043	6.8637076	-0.286854	0.7805756	0.91489	-6.215179
OGG1	0.0378699	8.6944573	0.286684	0.780702	0.91489	-6.215231
GLI3	-0.024314	6.9423401	-0.286645	0.7807308	0.91489	-6.215242
DNAJB3	-0.027473	6.935475	-0.286627	0.7807445	0.91489	-6.215248
NT5E	0.0229474	6.6973538	0.286528	0.7808177	0.9149	-6.215278
LRRC10	-0.018174	6.881685	-0.286264	0.7810135	0.9149	-6.215358
FER1L5	-0.01842	6.9925197	-0.286236	0.7810344	0.9149	-6.215367
PTPRJ	0.021151	6.9151693	0.2861929	0.7810664	0.9149	-6.21538
GNGT2	-0.018552	8.0853357	-0.28619	0.7810685	0.9149	-6.215381
SPRN	0.0277831	7.3064175	0.2859485	0.7812479	0.91504	-6.215454

LPAR4	-0.017861	6.8767374	-0.285751	0.7813946	0.91507	-6.215514
SLC16A9	-0.020447	6.7908876	-0.28574	0.7814024	0.91507	-6.215517
DOLPP1	-0.020647	8.4455585	-0.285514	0.7815702	0.91512	-6.215585
ARHGAP5	0.0226695	7.0036956	0.2854607	0.78161	0.91512	-6.215601
SERF2	-0.022867	10.585294	-0.285309	0.7817225	0.91512	-6.215647
SNX12	0.0265768	8.2124821	0.2852747	0.7817481	0.91512	-6.215658
HTRA4	0.0234906	6.8864452	0.2851453	0.7818441	0.91512	-6.215697
NDUFS8	0.0314317	12.469651	0.28507	0.7819	0.91512	-6.215719
SLC22A18	-0.017091	6.850382	-0.284928	0.7820058	0.91512	-6.215762
ACOT7	0.0350349	11.1115	0.2849166	0.7820139	0.91512	-6.215766
LINC00950	0.0215697	7.0871518	0.2848244	0.7820824	0.91512	-6.215794
SEMA3F	0.0235587	6.9267573	0.2847459	0.7821407	0.91512	-6.215817
HMGCS1	-0.030162	11.346324	-0.284642	0.7822178	0.91512	-6.215848
RARS	0.0201047	11.338157	0.2844625	0.7823512	0.91512	-6.215903
SH2B1	0.0326351	7.3934612	0.2844069	0.7823924	0.91512	-6.215919
FUT8	0.0375923	8.3920077	0.2843585	0.7824284	0.91512	-6.215934
ARL15	0.0212012	7.4519142	0.2843571	0.7824294	0.91512	-6.215934
RASIP1	0.017361	6.8040357	0.2843075	0.7824663	0.91512	-6.215949
FOXL2	-0.017825	6.6781757	-0.28425	0.7825087	0.91512	-6.215967
LUC7L2	0.0248586	7.7702196	0.2840567	0.7826525	0.91516	-6.216025
CNKSR3	-0.01954	6.8885639	-0.284033	0.7826698	0.91516	-6.216032
FGA	-0.019001	6.9049008	-0.283779	0.7828591	0.91527	-6.216108
ARFGAP3	0.0204767	9.2456737	0.2837464	0.782883	0.91527	-6.216118
BPIFA4P	-0.02465	6.9917844	-0.283468	0.7830897	0.91538	-6.216202
MIR129-2	-0.020842	7.3103565	-0.283176	0.7833066	0.91538	-6.216289
EXOC7	0.0189548	8.2340998	0.2831453	0.7833295	0.91538	-6.216299
ZNF346	0.0281509	7.3676746	0.2831115	0.7833546	0.91538	-6.216309
GALNT18	0.0169516	7.82198	0.2831039	0.7833603	0.91538	-6.216311
SPINK9	0.0180147	6.8655689	0.2830805	0.7833776	0.91538	-6.216318
SYNJ2	0.0207158	7.381146	0.2830234	0.7834201	0.91538	-6.216335
IKBIP	-0.023315	7.6112477	-0.282943	0.7834799	0.91538	-6.216359
TRIM69	0.0220536	8.1937885	0.2826142	0.7837241	0.91559	-6.216458
STC1	0.0172166	6.8190934	0.2823989	0.7838842	0.91565	-6.216522
CDC14B	0.0179037	6.8738015	0.2823192	0.7839434	0.91565	-6.216546
NDUFB11	-0.02002	11.514558	-0.282231	0.7840089	0.91565	-6.216572
CLP1	0.0279211	8.4439462	0.2821631	0.7840594	0.91565	-6.216593
RBMY1E	0.0209389	6.9300141	0.2821197	0.7840916	0.91565	-6.216606
LRRC29	0.0210441	7.2129352	0.2820198	0.7841658	0.91567	-6.216635
PDE4D	-0.030776	7.2990023	-0.281823	0.7843124	0.91576	-6.216694
EXOC3L1	0.0245523	7.0713915	0.2817364	0.7843765	0.91576	-6.21672
CNOT10	-0.01998	9.014644	-0.281486	0.7845626	0.91586	-6.216795
SEMA3E	-0.037421	8.9432642	-0.281459	0.7845823	0.91586	-6.216803
PIF1	-0.018506	7.6717936	-0.281321	0.7846855	0.91591	-6.216844
NSL1	0.022592	8.1917193	0.2810924	0.7848552	0.91603	-6.216912
MYO1E	-0.026585	6.9626638	-0.280902	0.7849965	0.91612	-6.216969

OR4C45	0.021238	6.894125	0.2805828	0.7852341	0.91633	-6.217064
DDX60L	-0.017146	6.7399124	-0.280137	0.7855654	0.91656	-6.217196
CACNA2D4	0.0248444	6.7906056	0.2801053	0.7855892	0.91656	-6.217206
MAP2K5	-0.019712	6.7511348	-0.280011	0.7856592	0.91656	-6.217234
MTRF1L	-0.025113	8.8159963	-0.279945	0.7857084	0.91656	-6.217253
C17orf99	-0.022819	7.0698757	-0.279894	0.7857465	0.91656	-6.217268
TSPAN3	-0.026626	9.7272809	-0.279338	0.7861597	0.91681	-6.217433
UBXN4	0.0251759	10.547694	0.2792945	0.7861921	0.91681	-6.217446
TRIM52	0.0250522	7.1392147	0.2792833	0.7862005	0.91681	-6.217449
MYOM1	-0.018541	6.7747845	-0.27927	0.7862101	0.91681	-6.217453
CAVIN3	-0.021256	6.9161314	-0.279131	0.786314	0.91681	-6.217494
HSD11B1L	-0.020125	7.1107485	-0.279049	0.7863749	0.91681	-6.217519
PRRG4	0.0216101	7.1629444	0.2790068	0.7864062	0.91681	-6.217531
DNAJC25	-0.03236	8.2564553	-0.278541	0.7867524	0.91714	-6.217668
BAG1	-0.025919	7.3014407	-0.278077	0.7870976	0.91736	-6.217805
RPL21P44	-0.020072	6.7344748	-0.278076	0.7870986	0.91736	-6.217806
HNMT	-0.01768	6.8767672	-0.278036	0.7871285	0.91736	-6.217817
MIR646HG	-0.018155	6.7283134	-0.277807	0.7872985	0.91749	-6.217885
RAI14	-0.020926	6.9210795	-0.276676	0.7881409	0.91836	-6.218217
BDNF-AS	0.0219336	6.8445943	0.276632	0.7881734	0.91836	-6.21823
SNORD63	-0.020751	6.8216027	-0.276004	0.788641	0.91879	-6.218414
PI4K2B	-0.018777	8.4686499	-0.275848	0.7887568	0.91879	-6.218459
ARHGAP10	-0.023454	7.7667849	-0.275804	0.7887898	0.91879	-6.218472
TSTD2	0.0206414	7.3224326	0.2758025	0.788791	0.91879	-6.218473
THEMIS2	0.0168569	7.1813218	0.2756286	0.7889205	0.91886	-6.218524
USP40	-0.019186	6.8271187	-0.275153	0.7892747	0.9192	-6.218663
OTUB1	0.0228582	8.013923	0.2749531	0.7894235	0.91926	-6.218721
CDKN2C	-0.021813	8.1226398	-0.27488	0.7894778	0.91926	-6.218742
NEK2	0.0302319	8.1364676	0.2748294	0.7895157	0.91926	-6.218757
ITGB1BP2	0.0190642	6.8792937	0.2747534	0.7895723	0.91926	-6.218779
BNIP3	-0.018421	6.9230884	-0.274633	0.7896616	0.91929	-6.218814
LHX5	0.018138	6.8081512	0.2742999	0.7899101	0.9195	-6.218911
SNX5	-0.027159	9.7187934	-0.274166	0.7900099	0.91951	-6.21895
MRTO4	-0.036889	9.5143136	-0.274122	0.7900425	0.91951	-6.218963
SH3BP2	-0.035352	6.8618518	-0.273616	0.7904196	0.91988	-6.219109
SUSD1	0.0187645	6.8686741	0.2730232	0.7908614	0.92023	-6.219281
SDSL	-0.024806	6.8550823	-0.27298	0.7908933	0.92023	-6.219294
DPPA3	-0.01861	6.9409693	-0.272892	0.7909593	0.92023	-6.219319
EFCAB2	0.0175952	6.8434849	0.2727737	0.7910473	0.92023	-6.219353
IL36A	0.0202619	6.7631984	0.2725837	0.7911889	0.92023	-6.219408
ART1	-0.023667	7.1090968	-0.272528	0.7912302	0.92023	-6.219424
USP51	0.0171456	6.7978022	0.2725197	0.7912366	0.92023	-6.219427
LINC01107	-0.016752	6.8307491	-0.272474	0.7912706	0.92023	-6.21944
ZSWIM3	-0.020047	7.2596877	-0.272452	0.7912872	0.92023	-6.219446
SARAF	0.0274863	10.892544	0.2722248	0.7914564	0.92033	-6.219512

MIR2278	-0.019317	6.9329071	-0.272045	0.7915903	0.92033	-6.219564
IFNE	0.0187798	6.8393649	0.272021	0.7916083	0.92033	-6.219571
ZNF286B	-0.024289	6.7989578	-0.27199	0.7916318	0.92033	-6.21958
MGA	0.018587	7.5507737	0.2718805	0.7917131	0.92035	-6.219611
RGS5	-0.018787	6.8257075	-0.271794	0.7917773	0.92036	-6.219636
ZNF518B	0.0178446	6.9005714	0.2716698	0.7918702	0.92039	-6.219672
BRIP1	-0.017161	7.0449494	-0.271034	0.7923441	0.92075	-6.219855
PAFAH2	-0.018929	7.6815912	-0.270981	0.7923837	0.92075	-6.21987
DAAM1	0.0225886	8.4191537	0.2709539	0.7924039	0.92075	-6.219878
C1QC	0.0182693	6.804411	0.2709126	0.7924348	0.92075	-6.21989
PHACTR3	-0.016545	6.8345012	-0.270708	0.7925874	0.92078	-6.219948
CD1D	-0.017082	6.8196647	-0.270626	0.7926487	0.92078	-6.219972
SLC26A7	-0.019054	6.8336413	-0.270623	0.7926509	0.92078	-6.219973
PCDHB13	0.018034	6.7259883	0.2703776	0.7928337	0.92081	-6.220043
EMD	-0.023958	11.19475	-0.270315	0.7928807	0.92081	-6.220061
NKX3-2	0.0178601	6.7322737	0.2700436	0.7930828	0.92081	-6.220139
RUSC1-AS1	-0.020058	7.01158	-0.270023	0.7930981	0.92081	-6.220145
ORC2	-0.022935	8.8458894	-0.270015	0.7931039	0.92081	-6.220147
TMEM219	-0.022968	8.5124606	-0.269928	0.7931694	0.92081	-6.220172
NIPA2	0.0187231	9.5320457	0.2697898	0.7932722	0.92081	-6.220211
KCNG1	-0.020763	6.9328305	-0.269779	0.7932799	0.92081	-6.220214
DNAJC8	0.0205215	12.944019	0.2697747	0.7932834	0.92081	-6.220216
ZFYVE21	0.0195408	8.4637472	0.2697423	0.7933076	0.92081	-6.220225
PTPN14	0.0166628	6.7813084	0.269327	0.7936174	0.9211	-6.220344
CD33	0.0183529	6.7884219	0.2689078	0.7939302	0.92133	-6.220463
RNF20	0.0255285	9.4137581	0.2688985	0.7939371	0.92133	-6.220466
HNRNPLL	-0.02222	6.8217418	-0.268762	0.7940388	0.92137	-6.220505
TTTY13	-0.016229	6.8589438	-0.268606	0.7941556	0.92137	-6.220549
FNBP1L	-0.01788	6.7037162	-0.268396	0.7943118	0.92137	-6.220609
CD276	0.0171751	6.7887031	0.2683673	0.7943336	0.92137	-6.220617
CISD2	0.0294904	8.9573599	0.2683647	0.7943355	0.92137	-6.220618
ATXN2L	0.0200859	6.9799551	0.2683441	0.7943509	0.92137	-6.220624
TMEM120B	0.018475	7.1818523	0.2681235	0.7945155	0.92137	-6.220687
ACSBG2	-0.018306	6.8123896	-0.268027	0.7945878	0.92137	-6.220714
C19orf60	0.0195102	8.6027034	0.2680088	0.7946011	0.92137	-6.220719
PLEKHA8P1	0.0217164	7.7967092	0.2679998	0.7946078	0.92137	-6.220722
MDM1	0.0237663	7.2519872	0.2676407	0.7948758	0.92161	-6.220824
SLFN12	0.0207146	6.8757873	0.2673439	0.7950974	0.92179	-6.220908
FSTL3	-0.017787	7.304329	-0.267097	0.7952814	0.92187	-6.220978
SET	0.0273288	12.347955	0.2670273	0.7953337	0.92187	-6.220998
SCAMP2	0.0248452	7.4337411	0.2670042	0.795351	0.92187	-6.221004
KCNK3	0.0288836	7.1740295	0.2669096	0.7954216	0.92188	-6.221031
FBXO33	-0.039627	9.2279849	-0.266781	0.7955176	0.92191	-6.221067
ABHD12B	-0.018247	6.9078884	-0.266457	0.7957595	0.92206	-6.221159
ZNF132	-0.017882	6.9389712	-0.26632	0.7958622	0.92206	-6.221198

FAXC	0.0188862	6.8475204	0.2663147	0.7958658	0.92206	-6.221199
SNX1	-0.021361	7.42653	-0.266255	0.7959106	0.92206	-6.221216
ANKRD20A5	-0.01831	6.735894	-0.266159	0.7959821	0.92206	-6.221243
HNRNPA1	-0.028925	8.9794731	-0.266106	0.7960218	0.92206	-6.221258
LCN2	-0.018252	6.7731622	-0.266014	0.7960902	0.92206	-6.221284
SLC30A5	0.0195721	8.3595236	0.2657037	0.7963221	0.92226	-6.221371
MRPL27	0.0169917	8.076377	0.2653254	0.7966046	0.92249	-6.221478
MBOAT2	-0.02526	7.2390853	-0.265241	0.7966676	0.92249	-6.221502
DAND5	-0.023325	6.9133913	-0.265079	0.7967887	0.92249	-6.221547
ZNF550	0.0261051	7.7313774	0.2650034	0.7968452	0.92249	-6.221569
NFKBIL1	-0.018007	6.8885389	-0.264912	0.7969134	0.92249	-6.221594
ZER1	0.017591	7.0071149	0.2648977	0.7969242	0.92249	-6.221598
RASAL2	0.017771	6.6999065	0.2648489	0.7969606	0.92249	-6.221612
PRR14	-0.030899	10.535075	-0.264618	0.797133	0.92256	-6.221677
PLCL2	0.0284595	8.9492688	0.264599	0.7971473	0.92256	-6.221682
ZNF121	-0.025317	7.235203	-0.264368	0.79732	0.92268	-6.221747
HSP90AB4P	-0.018382	7.0905479	-0.264019	0.7975804	0.92291	-6.221845
DUS4L	0.0271553	8.8349258	0.263665	0.7978452	0.92314	-6.221944
CES1	-0.0159	6.8469386	-0.263527	0.7979486	0.92319	-6.221982
NPTN	-0.030226	9.8261161	-0.263325	0.7980989	0.92325	-6.222039
TJP1	0.0189565	6.9426972	0.2632905	0.7981251	0.92325	-6.222048
ISPD	-0.017094	6.9048677	-0.263032	0.7983185	0.9234	-6.222121
ZC3H15	-0.028373	9.6202024	-0.262775	0.7985103	0.92355	-6.222192
HEBP2	-0.017029	6.8764349	-0.262617	0.7986284	0.92361	-6.222236
STKLD1	0.017192	6.8635303	0.2623589	0.7988214	0.92372	-6.222308
CENPP	-0.025984	7.4979591	-0.262323	0.7988485	0.92372	-6.222318
COL1A1	0.0262527	7.6325836	0.2621644	0.7989668	0.92378	-6.222362
SP100	-0.016454	7.2996345	-0.261859	0.7991951	0.92385	-6.222447
BLVRA	-0.019306	7.2069101	-0.261704	0.7993108	0.92385	-6.22249
RNF13	-0.016294	7.5713822	-0.26159	0.7993966	0.92385	-6.222522
RPS26	0.0218556	10.371849	0.2614323	0.7995142	0.92385	-6.222565
PHF21B	-0.018385	7.3385543	-0.261427	0.7995182	0.92385	-6.222567
C10orf35	-0.020536	6.7745423	-0.261416	0.7995265	0.92385	-6.22257
GCFC2	0.0264687	7.0127623	0.2614035	0.7995357	0.92385	-6.222573
SLC5A9	-0.018543	6.8749444	-0.261134	0.7997372	0.92385	-6.222648
RIN1	-0.022345	7.0135176	-0.261123	0.7997452	0.92385	-6.222651
MIR16-2	-0.01712	6.8774961	-0.261095	0.7997664	0.92385	-6.222659
HOXA9	-0.018517	6.7449056	-0.261061	0.7997922	0.92385	-6.222668
LINC00115	-0.022935	7.0273129	-0.261007	0.7998323	0.92385	-6.222683
FADS1	-0.021677	7.8179631	-0.260982	0.7998508	0.92385	-6.22269
NACA	-0.018417	13.531639	-0.260651	0.8000985	0.92397	-6.222782
SLC35F2	-0.024614	9.8696764	-0.260639	0.8001078	0.92397	-6.222785
METTL23	-0.016137	8.0785221	-0.260589	0.8001448	0.92397	-6.222799
SLC25A45	-0.019354	7.0357163	-0.260257	0.8003935	0.92419	-6.222891
SPG7	0.0190336	8.0068933	0.2600579	0.8005421	0.92426	-6.222946

PEX10	-0.019044	7.4374059	-0.259973	0.800606	0.92426	-6.222969
FAM90A1	0.0180599	6.7766696	0.2599226	0.8006434	0.92426	-6.222983
XRRA1	0.0189711	6.9699285	0.2597295	0.8007878	0.92428	-6.223036
DDX58	0.0168583	6.8480465	0.2596682	0.8008337	0.92428	-6.223053
LMBRD1	0.0301029	9.9708852	0.259648	0.8008488	0.92428	-6.223059
CD27	0.0228684	11.184093	0.2592789	0.801125	0.92442	-6.22316
CTAGE15	-0.017559	6.8819478	-0.25919	0.8011917	0.92442	-6.223185
CNPY4	-0.01765	7.4272297	-0.259167	0.8012091	0.92442	-6.223191
KCTD1	-0.017048	6.8424759	-0.259141	0.8012284	0.92442	-6.223198
NUTF2	0.0248895	9.4892613	0.2588415	0.8014523	0.92455	-6.22328
COL9A1	0.017141	6.9287629	0.2588259	0.801464	0.92455	-6.223285
NEK4	-0.019614	7.0748667	-0.258693	0.8015631	0.92456	-6.223321
SPEM1	-0.01692	6.878703	-0.25851	0.8017003	0.92456	-6.223371
STX4	0.0357524	8.4596129	0.2584285	0.8017613	0.92456	-6.223394
HOTAIRM1	0.0156729	6.8877677	0.2584229	0.8017656	0.92456	-6.223395
CRYZL1	0.0161341	7.7847221	0.2583291	0.8018357	0.92456	-6.223421
CLCN5	-0.019364	6.805552	-0.258276	0.8018754	0.92456	-6.223435
APEH	0.0387235	10.776743	0.2582146	0.8019215	0.92456	-6.223452
FAM46A	0.0194431	7.80209	0.2581383	0.8019785	0.92456	-6.223473
CCNC	0.0211148	10.115695	0.2580008	0.8020815	0.92459	-6.223511
ADAMTS2	-0.017588	6.7976041	-0.257928	0.8021359	0.92459	-6.223531
ZNF503	0.020012	6.8910363	0.2575878	0.8023906	0.92476	-6.223624
SCARNA12	-0.027963	7.349773	-0.257545	0.8024228	0.92476	-6.223636
ZNF556	-0.019772	6.9210596	-0.257473	0.8024764	0.92476	-6.223655
LTBP2	0.0275493	7.022406	0.257356	0.8025641	0.92479	-6.223687
JKAMP	-0.022938	8.8060128	-0.25703	0.8028082	0.92494	-6.223776
PPP1R26	-0.016441	6.6682263	-0.25701	0.8028231	0.92494	-6.223782
SEMA3A	0.0173457	6.8357348	0.2568311	0.8029572	0.92496	-6.22383
PKD1	0.0183106	6.9526331	0.2568257	0.8029612	0.92496	-6.223832
CD3E	0.026143	6.7884311	0.2566998	0.8030555	0.92499	-6.223866
MLF1	0.0167566	6.758383	0.2565534	0.8031651	0.92505	-6.223906
CENPW	-0.025295	9.4379543	-0.25613	0.8034825	0.9253	-6.224021
SNORA5C	-0.020834	7.1397334	-0.256023	0.803562	0.9253	-6.22405
SYTL2	0.0174656	7.3681071	0.25588	0.8036694	0.9253	-6.224089
MET	-0.025084	8.0768052	-0.25588	0.8036696	0.9253	-6.224089
KCNK4	0.0151577	7.0407854	0.2557663	0.8037546	0.9253	-6.22412
LPAR3	-0.021522	7.0678559	-0.255748	0.8037686	0.9253	-6.224125
EMC7	-0.020996	10.980892	-0.255595	0.8038832	0.92536	-6.224166
TUSC1	0.015194	6.7820805	0.2554976	0.8039558	0.92537	-6.224193
EEFSEC	-0.017396	6.8964755	-0.255402	0.8040276	0.92537	-6.224219
UBE2DNL	0.0156484	6.8156619	0.2551622	0.8042071	0.92537	-6.224284
PLEK	-0.030236	13.303286	-0.255152	0.804215	0.92537	-6.224286
GALK2	-0.016158	7.3792947	-0.255078	0.8042698	0.92537	-6.224306
PROSER3	-0.017143	6.9786871	-0.255076	0.8042714	0.92537	-6.224307
LRFN4	0.0288745	7.3867043	0.2546701	0.8045757	0.92563	-6.224417

HBEGF	0.0220007	6.8683618	0.2544561	0.8047361	0.92563	-6.224475
BCL10	0.0199011	7.2983584	0.2543643	0.8048049	0.92563	-6.224499
DRD3	0.0190054	6.9576368	0.2543506	0.8048151	0.92563	-6.224503
UBLCP1	0.0424874	8.5816776	0.2543076	0.8048473	0.92563	-6.224515
TOR4A	0.0209658	6.9185085	0.2542722	0.8048739	0.92563	-6.224524
FOXP2	0.0174188	6.8588914	0.2540852	0.805014	0.92572	-6.224575
PREPL	-0.023438	8.8702455	-0.253491	0.805459	0.92611	-6.224735
SLC16A12	-0.023055	9.5345176	-0.253455	0.8054861	0.92611	-6.224744
TRMT1L	0.0250195	7.6416957	0.2532134	0.8056674	0.92625	-6.224809
ZNF883	0.0210803	6.9404625	0.2530875	0.8057618	0.92628	-6.224843
POTEH	-0.017699	6.8774428	-0.252911	0.8058937	0.92636	-6.22489
FLRT2	0.0206876	6.9179748	0.2527665	0.8060023	0.92636	-6.224929
PCDHGB4	-0.018125	6.7810609	-0.252745	0.8060183	0.92636	-6.224935
VSIG4	0.0167369	6.8919465	0.2524526	0.8062377	0.92642	-6.225013
NXPH2	-0.022196	7.171902	-0.252441	0.8062461	0.92642	-6.225016
NDUFS2	0.0186437	7.4788428	0.252422	0.8062606	0.92642	-6.225022
PIK3CD-AS1	-0.018592	6.9665318	-0.252285	0.8063632	0.92646	-6.225058
DCAF5	0.0245686	8.6962577	0.2517913	0.8067335	0.92671	-6.22519
POLR2J4	0.0180843	7.1935572	0.2516804	0.8068166	0.92671	-6.22522
ACSS1	0.016054	7.7173161	0.2516714	0.8068234	0.92671	-6.225222
KDM1A	0.0314596	10.457316	0.2515946	0.806881	0.92671	-6.225243
DNAJC5B	-0.015935	6.9372252	-0.251443	0.8069946	0.92671	-6.225283
TAAR1	0.0188144	6.8679116	0.2512817	0.8071156	0.92671	-6.225326
HBB	-0.020582	6.9785433	-0.251243	0.8071443	0.92671	-6.225337
SMARCA4	0.0193707	11.585429	0.2511145	0.807241	0.92671	-6.225371
NUP50	0.0149521	7.8292411	0.2510554	0.8072853	0.92671	-6.225387
SIK2	0.0158515	6.9921714	0.2509988	0.8073278	0.92671	-6.225402
AIDA	-0.025758	10.075163	-0.250932	0.8073782	0.92671	-6.22542
NRN1	-0.016936	6.9573609	-0.250918	0.8073885	0.92671	-6.225423
CTIF	0.0159385	6.7752371	0.2509006	0.8074014	0.92671	-6.225428
THAP3	-0.019432	7.0935153	-0.250631	0.8076037	0.92687	-6.2255
LPAR2	-0.020671	8.1686504	-0.25042	0.807762	0.92698	-6.225556
INTS10	-0.020508	9.6304476	-0.249969	0.8081	0.92724	-6.225675
SERPINF2	-0.017503	6.7815067	-0.24987	0.8081742	0.92724	-6.225702
SLC12A6	0.0174914	6.9463066	0.2498586	0.808183	0.92724	-6.225705
SPIN1	0.0327267	7.3588556	0.249772	0.808248	0.92724	-6.225728
TMC3	0.0195645	6.8424566	0.2494318	0.8085033	0.92746	-6.225818
DEDD	-0.018408	7.8231978	-0.249263	0.8086298	0.92749	-6.225863
PEX7	0.0213854	8.3339808	0.2491948	0.8086811	0.92749	-6.225881
ATP6V1E2	0.0194483	7.5307029	0.2491455	0.8087181	0.92749	-6.225894
ZNF200	-0.016069	8.0078038	-0.249018	0.8088136	0.92753	-6.225927
PATE3	0.01724	8.1958949	0.2484277	0.8092568	0.92792	-6.226083
ZNF524	-0.020026	7.5795197	-0.248358	0.8093089	0.92792	-6.226102
PRRG1	-0.017485	6.7295111	-0.248281	0.8093667	0.92792	-6.226122
LFNG	-0.015879	6.864742	-0.248218	0.8094144	0.92792	-6.226139

ZFP41	0.0181513	6.8515197	0.2479473	0.8096173	0.92799	-6.22621
KIF3C	-0.016774	6.7109722	-0.247864	0.8096798	0.92799	-6.226232
UBR7	-0.020019	8.70261	-0.247802	0.8097264	0.92799	-6.226248
ADGRG6	-0.019638	6.8597182	-0.247797	0.80973	0.92799	-6.226249
RPL11	-0.020435	14.018914	-0.247692	0.8098092	0.92801	-6.226277
TRMT6	-0.022438	7.8241582	-0.247451	0.8099897	0.92808	-6.22634
HSP90B1	-0.023749	12.094688	-0.247385	0.8100394	0.92808	-6.226358
EGFL7	0.0161333	6.7683921	0.2473381	0.8100746	0.92808	-6.22637
DIS3	0.0207099	7.5783681	0.2472511	0.81014	0.92808	-6.226393
SLC22A4	0.018906	6.8490321	0.2471878	0.8101875	0.92808	-6.226409
RNPEPL1	0.0176488	7.124604	0.2466206	0.8106133	0.9285	-6.226558
CYP4X1	-0.028856	6.9643506	-0.246424	0.8107608	0.92859	-6.226609
C15orf48	-0.015614	6.7647597	-0.24624	0.8108989	0.92867	-6.226658
SF3B3	0.0248264	9.8524582	0.24612	0.8109893	0.92867	-6.226689
MEIS3	-0.020086	6.8500263	-0.246079	0.8110199	0.92867	-6.2267
SPSB1	-0.020408	6.9737013	-0.245678	0.8113209	0.92888	-6.226804
CYB561	-0.016526	7.0121064	-0.24567	0.811327	0.92888	-6.226806
TEX15	-0.016772	6.8408088	-0.244848	0.8119449	0.92951	-6.227021
C17orf75	0.0216508	7.0262833	0.2446898	0.8120636	0.92956	-6.227062
PER3	-0.021452	7.1635496	-0.244626	0.8121117	0.92956	-6.227078
TFAP2C	-0.015646	6.7472377	-0.244261	0.8123859	0.92959	-6.227173
ALPK1	-0.015992	7.5642352	-0.24414	0.8124768	0.92959	-6.227204
CUL3	-0.016772	7.0656156	-0.244073	0.8125273	0.92959	-6.227222
CLN3	0.0182415	7.4987136	0.2440042	0.8125787	0.92959	-6.227239
RHOT1	-0.020443	8.4417089	-0.243943	0.8126249	0.92959	-6.227255
HERPUD2	-0.015954	7.369046	-0.243922	0.8126408	0.92959	-6.227261
CDR2L	-0.015148	6.7770262	-0.243903	0.8126544	0.92959	-6.227266
RIDA	-0.018392	9.226273	-0.243903	0.8126546	0.92959	-6.227266
JAZF1	-0.022544	8.618517	-0.243206	0.8131787	0.93004	-6.227446
HOXC6	-0.014326	7.3390526	-0.243139	0.8132288	0.93004	-6.227463
RPL27AP6	0.0184564	14.35898	0.243128	0.8132371	0.93004	-6.227466
ALKAL1	0.0149719	6.847778	0.2427969	0.813486	0.93025	-6.227551
MIR21	-0.02605	6.923206	-0.242703	0.8135569	0.93025	-6.227576
TACR3	-0.016592	7.0011804	-0.242628	0.813613	0.93025	-6.227595
FUBP1	-0.022088	8.429946	-0.242263	0.8138872	0.93036	-6.227689
SP3	-0.018094	7.6044808	-0.242148	0.8139742	0.93036	-6.227719
ELMOD2	-0.019639	7.4100702	-0.242127	0.8139892	0.93036	-6.227724
AP1B1	-0.02006	8.5118186	-0.242098	0.8140113	0.93036	-6.227731
IL36B	-0.015096	6.9079763	-0.242084	0.814022	0.93036	-6.227735
SPPL3	0.0194499	7.1002399	0.2419331	0.8141354	0.93041	-6.227774
GRIN3B	0.0194627	6.7938229	0.2418539	0.8141949	0.93041	-6.227794
GNPNAT1	0.0207269	8.7887996	0.2415655	0.8144117	0.93048	-6.227868
ERCC8	-0.018354	8.3208569	-0.241541	0.8144299	0.93048	-6.227874
TMEM234	0.0172198	7.0122076	0.2415202	0.8144458	0.93048	-6.22788
NEK10	0.0163999	6.9114177	0.241167	0.8147114	0.93071	-6.22797

STARD7-AS1	0.0269255	7.1155562	0.2409243	0.8148939	0.93084	-6.228032
TMEM147	0.0313119	11.456344	0.240693	0.8150679	0.93097	-6.228092
AAK1	0.0194084	6.9144939	0.24049	0.8152206	0.93107	-6.228143
TATDN3	-0.018472	8.8465828	-0.240053	0.8155491	0.93113	-6.228255
MGC72080	0.0299785	8.9113695	0.2400481	0.8155529	0.93113	-6.228256
CYP21A2	0.0219104	6.8228261	0.2400062	0.8155844	0.93113	-6.228267
C1orf27	-0.020426	6.9306554	-0.239996	0.8155918	0.93113	-6.228269
PQBP1	0.0185356	8.3900506	0.2399929	0.8155944	0.93113	-6.22827
RAB43	-0.015758	6.8582802	-0.239697	0.8158173	0.93126	-6.228346
GZMA	0.0153042	6.8277461	0.2395448	0.8159315	0.93126	-6.228384
SNORD94	-0.01868	6.9501447	-0.239371	0.8160623	0.93126	-6.228429
MEIOB	0.0166761	6.8567376	0.2392773	0.8161328	0.93126	-6.228452
NEPRO	0.0158059	7.3481969	0.2392135	0.8161808	0.93126	-6.228469
PHOX2A	0.0179498	6.8153299	0.239187	0.8162007	0.93126	-6.228475
NEBL	0.0203831	6.9003731	0.2391003	0.816266	0.93126	-6.228497
FOXF2	-0.017052	6.805124	-0.239091	0.8162728	0.93126	-6.2285
KCTD12	0.0159373	6.8542766	0.2389964	0.8163441	0.93126	-6.228524
SYNGR4	0.0149124	6.766053	0.238853	0.8164521	0.93126	-6.22856
HPN-AS1	-0.018192	6.9744068	-0.238769	0.816515	0.93126	-6.228581
TBC1D16	-0.015743	6.8504384	-0.238606	0.8166381	0.93126	-6.228623
ADCY4	0.0178084	6.8543239	0.2385947	0.8166464	0.93126	-6.228626
ATP5I	-0.022384	12.031625	-0.23858	0.8166577	0.93126	-6.228629
MYPN	-0.020712	6.8612065	-0.238509	0.816711	0.93126	-6.228647
PRKAA1	-0.024726	8.3062363	-0.238489	0.8167258	0.93126	-6.228652
PEPD	0.0277559	10.344027	0.2383325	0.8168437	0.93132	-6.228692
PASD1	0.0177794	6.8131754	0.2379927	0.8170995	0.93154	-6.228778
ANAPC1	0.0147572	9.5541745	0.2374186	0.8175316	0.93191	-6.228923
APLF	0.0282569	7.0684307	0.2373921	0.8175515	0.93191	-6.22893
GABPAP	0.016716	6.9158678	0.2369877	0.8178559	0.93215	-6.229031
LAS1L	0.0186192	9.7330796	0.2368956	0.8179253	0.93215	-6.229055
LOC148413	-0.03123	9.7818535	-0.236859	0.8179527	0.93215	-6.229064
HIST1H2AB	-0.015354	6.9688597	-0.236557	0.8181803	0.93227	-6.22914
EIF4A1	0.0236393	12.703225	0.2365475	0.8181874	0.93227	-6.229142
ZNF131	-0.025591	7.3789328	-0.236436	0.818271	0.93229	-6.22917
KLHL17	0.0215547	7.1587109	0.2360447	0.8185659	0.93256	-6.229268
SIRPA	-0.014228	6.7188858	-0.235828	0.8187294	0.93263	-6.229323
KCTD18	-0.026641	7.4191722	-0.235791	0.818757	0.93263	-6.229332
CCNO	-0.016963	6.8896375	-0.235412	0.8190422	0.93282	-6.229427
GSDMA	-0.026265	7.4717145	-0.235364	0.8190786	0.93282	-6.229439
PSD3	0.0162617	6.8960075	0.2353118	0.8191179	0.93282	-6.229452
MVB12B	-0.014476	6.8209149	-0.2352	0.8192018	0.93284	-6.22948
SGCE	-0.017514	9.2551487	-0.235021	0.8193369	0.93292	-6.229524
PEX5	0.0201977	12.193984	0.2348287	0.8194817	0.93302	-6.229572
SYS1	-0.016956	8.338531	-0.234684	0.8195906	0.93307	-6.229608
IL1RN	0.0196012	6.7902875	0.2345745	0.8196732	0.93308	-6.229636

KCNH4	-0.01422	6.8649736	-0.234503	0.8197268	0.93308	-6.229654
ADCK1	0.0164954	8.0740776	0.2343569	0.8198371	0.93313	-6.22969
CYP4B1	-0.014422	6.820685	-0.234038	0.8200771	0.93333	-6.229769
ROMO1	0.0186335	12.54156	0.2337512	0.8202935	0.9335	-6.229841
MIR760	0.0175123	6.9798241	0.2335685	0.8204311	0.93359	-6.229886
SCN9A	0.016464	6.8485287	0.2331088	0.8207775	0.93388	-6.23
ADAM2	-0.017174	6.9076914	-0.233028	0.8208388	0.93388	-6.23002
KDF1	-0.018181	6.9282391	-0.232975	0.8208781	0.93388	-6.230033
PREX1	0.022604	6.9599663	0.2327355	0.8210589	0.93399	-6.230092
B3GLCT	-0.017985	7.3243639	-0.23265	0.8211231	0.93399	-6.230113
ERBIN	-0.016008	7.070613	-0.232592	0.8211672	0.93399	-6.230128
1-Mar	0.0198809	6.904833	0.2324159	0.8212997	0.93407	-6.230171
MRPL53	0.0224655	9.1119357	0.2320702	0.8215603	0.93412	-6.230257
ZNF526	0.0203194	7.6645432	0.2320625	0.8215661	0.93412	-6.230258
LOC100507(	-0.031033	7.2149157	-0.232034	0.8215878	0.93412	-6.230266
KCNQ1	0.0158957	6.8455516	0.2319213	0.8216725	0.93412	-6.230293
DIRC2	-0.017582	7.586641	-0.231901	0.8216881	0.93412	-6.230298
C1orf216	-0.020483	7.4203323	-0.231825	0.8217451	0.93412	-6.230317
LINC00114	-0.041894	11.012703	-0.231758	0.8217953	0.93412	-6.230333
ANKRD13B	-0.01535	6.9723167	-0.231486	0.8220004	0.93425	-6.2304
LRP6	0.0192501	6.9771576	0.2314328	0.8220408	0.93425	-6.230413
TBX18	-0.015815	6.9561852	-0.231184	0.8222287	0.93427	-6.230475
ANLN	-0.015654	8.2279691	-0.231102	0.8222901	0.93427	-6.230495
APAF1	-0.015594	7.4291737	-0.231026	0.8223477	0.93427	-6.230513
KRT23	-0.01581	6.9962368	-0.231017	0.822354	0.93427	-6.230516
HMG20A	-0.017752	8.1369041	-0.230993	0.8223724	0.93427	-6.230522
TPGS1	0.019947	7.1712401	0.2308599	0.8224727	0.93428	-6.230554
ARFRP1	0.0174071	7.0665524	0.2308031	0.8225155	0.93428	-6.230568
FKRP	-0.019155	7.157486	-0.230472	0.822765	0.93449	-6.230649
WDR78	-0.015943	6.8498041	-0.230024	0.8231029	0.93481	-6.230759
GOLGA2	0.0149813	7.7263384	0.2297866	0.8232821	0.93491	-6.230817
NCAM2	-0.015806	6.7187986	-0.22968	0.8233628	0.93491	-6.230843
ERP27	0.0172704	7.2950144	0.2296505	0.8233848	0.93491	-6.23085
FYB	0.0187584	6.7469518	0.2293598	0.823604	0.93508	-6.230921
PTH1R	-0.017869	6.8496644	-0.229043	0.8238433	0.93528	-6.230998
SLX1B	0.0187068	7.1202138	0.2287705	0.8240486	0.93544	-6.231064
PRSS22	-0.019322	6.8747776	-0.228631	0.8241536	0.93549	-6.231098
ZNF219	0.0203623	7.0369343	0.2283822	0.8243415	0.93563	-6.231159
CRLF1	-0.018616	6.9763523	-0.228214	0.8244683	0.93563	-6.231199
TEX261	0.0161204	8.1424455	0.2281754	0.8244975	0.93563	-6.231209
VGLL1	-0.017902	6.9580849	-0.228125	0.8245352	0.93563	-6.231221
BBS5	0.0150953	6.9319538	0.2279079	0.8246994	0.9357	-6.231274
ZNF567	0.0173864	7.0933887	0.2278785	0.8247216	0.9357	-6.231281
SRPK2	0.0143728	7.2607333	0.2277316	0.8248324	0.9357	-6.231316
FLAD1	-0.017807	8.2888532	-0.227703	0.8248542	0.9357	-6.231323

RUFY1	0.0143829	7.7540449	0.2274177	0.8250693	0.93573	-6.231392
YPEL3	0.0183874	7.5064988	0.2273091	0.8251512	0.93573	-6.231419
RWDD4	-0.023244	9.9316539	-0.227287	0.8251678	0.93573	-6.231424
NAA50	0.0232973	8.289578	0.2272733	0.8251782	0.93573	-6.231427
GATA2	0.0151361	6.8236568	0.227251	0.8251951	0.93573	-6.231433
GPRC5B	0.017522	6.9406977	0.227135	0.8252826	0.93575	-6.231461
LOC653786	0.0143526	6.920001	0.2270398	0.8253545	0.93576	-6.231484
GABARAPL1	0.0193259	6.9391936	0.2269373	0.8254318	0.93578	-6.231508
MGEA5	0.0260648	10.364536	0.2267585	0.8255668	0.93586	-6.231551
DDX55	0.0252713	10.098838	0.2266216	0.8256701	0.93588	-6.231584
MFSD11	0.020448	8.6219177	0.2265587	0.8257176	0.93588	-6.231599
NBPF11	0.0179778	8.0515807	0.2263782	0.8258539	0.93596	-6.231643
HNRNPA1P1	0.0137797	7.4723432	0.2261943	0.8259927	0.93605	-6.231687
DNHD1	-0.016916	7.0487309	-0.226098	0.8260651	0.93605	-6.23171
PRKAB2	-0.015741	7.7318745	-0.226006	0.8261345	0.93605	-6.231732
ALKBH5	-0.020004	12.163148	-0.225885	0.8262259	0.93605	-6.231761
C4orf46	-0.020262	8.1965448	-0.225851	0.826252	0.93605	-6.23177
LIF	-0.016988	6.9244797	-0.225548	0.8264807	0.93618	-6.231842
MMS22L	0.0171207	7.0604673	0.2255332	0.8264918	0.93618	-6.231846
ZNF384	0.0164554	8.0105412	0.2253406	0.8266372	0.93626	-6.231892
SNORD114-	-0.017828	6.9160876	-0.225271	0.8266899	0.93626	-6.231909
KLRC1	-0.019853	6.9926232	-0.22488	0.8269851	0.93631	-6.232002
SEMA4C	0.0143963	6.9639224	0.2247916	0.8270518	0.93631	-6.232023
LOC285147	-0.015786	6.8619955	-0.224778	0.8270619	0.93631	-6.232026
GPC6	-0.015445	7.3836719	-0.224729	0.8270988	0.93631	-6.232038
PDLIM5	-0.014602	7.100332	-0.224708	0.8271152	0.93631	-6.232043
GUCY1A3	0.0137509	6.7683653	0.2247025	0.8271191	0.93631	-6.232045
CNIH3	-0.015812	6.8842156	-0.224602	0.8271949	0.93632	-6.232069
C8orf33	0.0215846	9.6639777	0.2243702	0.82737	0.9364	-6.232124
PARP15	-0.014169	6.898311	-0.22434	0.8273931	0.9364	-6.232131
SCNN1B	-0.0182	6.9678522	-0.224209	0.8274916	0.93644	-6.232162
DYNC1I1	-0.013496	6.7446785	-0.224067	0.8275991	0.93649	-6.232196
CHRNA5	0.0148161	8.4987544	0.2239707	0.8276718	0.9365	-6.232219
ADAMTSL4	0.0136771	6.7962516	0.2238509	0.8277622	0.93652	-6.232248
KREMEN2	0.0227348	8.2739734	0.2236867	0.8278862	0.93652	-6.232287
BICD1	-0.015223	6.9972026	-0.223643	0.8279196	0.93652	-6.232297
NCOA2	0.0165017	6.8491139	0.2235986	0.8279528	0.93652	-6.232308
RUVBL1	-0.014656	10.144373	-0.223482	0.8280412	0.93655	-6.232335
SFRP1	0.0183216	6.828043	0.2232277	0.828233	0.9367	-6.232396
RHOXF2B	0.0138834	6.9552543	0.2229877	0.8284143	0.93674	-6.232453
REEP4	-0.015931	7.48272	-0.222749	0.8285945	0.93674	-6.232509
FZD5	0.0190634	6.9728964	0.2227284	0.8286102	0.93674	-6.232514
FEM1B	0.0189087	7.1527066	0.22272	0.8286166	0.93674	-6.232516
EFHC1	0.023318	7.1052159	0.2226113	0.8286987	0.93674	-6.232542
PPP3CC	0.0172673	8.9661508	0.2225779	0.8287239	0.93674	-6.23255

SEMA4G	0.0163361	6.9700542	0.2225758	0.8287255	0.93674	-6.23255
SLC36A1	-0.015838	7.4494531	-0.222368	0.8288823	0.93685	-6.232599
RSG1	0.0139745	7.307231	0.2221322	0.8290607	0.93689	-6.232655
STUB1	0.0255065	8.9829094	0.2220985	0.8290862	0.93689	-6.232663
LRRCC1	0.0175362	7.4050594	0.2219999	0.8291606	0.93689	-6.232686
WSCD1	0.0193421	6.7808776	0.2219837	0.8291729	0.93689	-6.23269
MRPL33	-0.01599	11.261434	-0.221861	0.8292656	0.93691	-6.232719
GALC	0.0154593	6.8640731	0.2217573	0.829344	0.93691	-6.232743
ADGRB1	-0.015447	6.8451634	-0.221708	0.8293812	0.93691	-6.232755
ARNT	0.0153228	7.2085327	0.2216207	0.8294472	0.93691	-6.232776
PPM1L	-0.015255	6.7602157	-0.221457	0.8295708	0.93695	-6.232814
HNRNPA1P3	0.036863	11.838766	0.2214007	0.8296135	0.93695	-6.232827
KIAA1549	-0.01483	6.7569421	-0.221211	0.8297571	0.93704	-6.232872
P3H2	-0.019926	6.9087213	-0.221002	0.8299145	0.93715	-6.232921
CNIH2	-0.016694	6.8649546	-0.220604	0.8302155	0.93719	-6.233014
CD200	-0.018387	7.0116569	-0.22056	0.8302489	0.93719	-6.233025
UBE2M	0.0145089	11.91023	0.2205415	0.830263	0.93719	-6.233029
FANCF	-0.020613	7.009145	-0.220486	0.8303047	0.93719	-6.233042
SRGAP2	0.0135611	6.9955014	0.2204569	0.8303269	0.93719	-6.233049
MIR425	0.0174072	6.7748763	0.2204368	0.8303421	0.93719	-6.233054
PNMA6A	0.0158628	6.7772872	0.2202384	0.8304921	0.93727	-6.2331
ZEB2	0.0160926	7.2344159	0.2201804	0.8305359	0.93727	-6.233114
COG4	0.0148656	7.8258999	0.2200238	0.8306544	0.93733	-6.23315
CFAP221	-0.014245	6.8212612	-0.219388	0.8311354	0.93762	-6.233299
SCGB1D2	0.0162051	6.8075059	0.2193346	0.8311754	0.93762	-6.233311
CHST13	0.0189201	6.9602062	0.2191264	0.8313329	0.93762	-6.23336
ZFP42	0.0153462	6.9234992	0.2189978	0.8314301	0.93762	-6.23339
ADAT2	-0.021639	7.2608374	-0.218994	0.8314331	0.93762	-6.233391
SCARNA4	0.0185909	6.8978028	0.2187939	0.8315843	0.93762	-6.233437
SNHG7	0.0139839	9.7505174	0.2187345	0.8316292	0.93762	-6.233451
EXOC1	-0.012968	7.8163619	-0.218419	0.8318682	0.93762	-6.233525
CEBPZ	0.0166869	10.536918	0.2180814	0.8321232	0.93762	-6.233603
PI15	-0.023239	7.010887	-0.218052	0.8321453	0.93762	-6.23361
CRAT	-0.014914	6.9145916	-0.218014	0.8321745	0.93762	-6.233618
IZUMO4	-0.015346	7.5575133	-0.217993	0.83219	0.93762	-6.233623
DNAJB2	0.016581	8.3343776	0.2179574	0.832217	0.93762	-6.233632
NRBF2	0.0152889	8.3605773	0.2179269	0.8322401	0.93762	-6.233639
FOXQ1	-0.016379	6.7985626	-0.217896	0.8322635	0.93762	-6.233646
LMNTD2	0.0171039	6.7847007	0.2178666	0.8322857	0.93762	-6.233653
SPIDR	0.0235652	9.2535984	0.2178328	0.8323113	0.93762	-6.23366
KIR2DL1	0.0141043	6.8628773	0.2178103	0.8323283	0.93762	-6.233666
ZNF100	-0.015316	6.8244569	-0.217785	0.8323476	0.93762	-6.233672
GPBAR1	0.0139332	6.8393322	0.2177757	0.8323544	0.93762	-6.233674
NACC2	-0.013391	6.7573092	-0.217755	0.8323704	0.93762	-6.233678
TGFB1I1	-0.017503	6.845887	-0.21765	0.8324497	0.93762	-6.233703

IMMT	0.0170924	11.105348	0.2175968	0.8324898	0.93762	-6.233715
DENND4C	-0.016339	7.6589747	-0.217561	0.8325169	0.93762	-6.233723
RPS5	-0.016969	14.122143	-0.217559	0.8325182	0.93762	-6.233724
RDH8	-0.017039	6.974257	-0.217335	0.8326875	0.93774	-6.233775
DDB1	0.013019	10.200598	0.2169212	0.8330009	0.93802	-6.233871
NIPAL4	0.0154867	6.8530988	0.2167886	0.8331013	0.93802	-6.233902
IVD	-0.019618	7.3088114	-0.216745	0.8331342	0.93802	-6.233912
JAML	-0.01822	6.9937082	-0.216548	0.8332832	0.93812	-6.233957
AGTR1	-0.013722	6.7686714	-0.216163	0.8335743	0.93836	-6.234046
RNF130	-0.013431	6.8617169	-0.216021	0.833682	0.93836	-6.234078
FBXL6	-0.015614	8.0406173	-0.216012	0.8336892	0.93836	-6.23408
ASRGL1	-0.015429	6.8057649	-0.215718	0.8339113	0.93841	-6.234148
MPZL1	-0.018664	7.9804348	-0.215609	0.8339939	0.93841	-6.234173
MECOM	0.0177916	6.9129841	0.2155325	0.8340517	0.93841	-6.23419
SLC26A8	0.016805	6.8635843	0.21546	0.8341066	0.93841	-6.234207
RGPD1	0.0136209	6.8126094	0.2153966	0.8341546	0.93841	-6.234221
UHRF1BP1L	0.0135932	7.2771074	0.2152476	0.8342674	0.93841	-6.234256
HYAL4	-0.013948	6.9601529	-0.215181	0.8343177	0.93841	-6.234271
CLCNKA	-0.022236	6.8602063	-0.215038	0.8344262	0.93841	-6.234304
BEGAIN	0.0218899	7.8307223	0.2149904	0.8344621	0.93841	-6.234314
HAL	-0.01732	6.9007719	-0.214976	0.8344728	0.93841	-6.234318
CD93	-0.01796	6.7532237	-0.214877	0.8345479	0.93841	-6.23434
HDGFL1	0.020099	7.0320738	0.2148422	0.8345743	0.93841	-6.234348
SYNGR2	-0.017457	7.0687544	-0.214798	0.834608	0.93841	-6.234358
PDS5B	-0.019097	7.949225	-0.214767	0.8346313	0.93841	-6.234365
PCDH10	-0.014201	6.9333033	-0.214665	0.834708	0.93842	-6.234389
FKBP9	-0.013468	6.8791207	-0.214435	0.8348829	0.93845	-6.234441
VN1R17P	0.0151189	6.8319975	0.2143808	0.8349236	0.93845	-6.234454
FBXL2	-0.01635	6.812637	-0.214352	0.8349454	0.93845	-6.23446
ANOS1	-0.013882	6.7129104	-0.214222	0.8350439	0.93845	-6.23449
NUDT16	-0.02229	7.1660584	-0.214125	0.8351175	0.93845	-6.234512
SYNPO2L	0.015725	6.8227036	0.2141212	0.8351201	0.93845	-6.234513
PSMD5	-0.016617	8.6136511	-0.213889	0.8352961	0.93857	-6.234566
ACP1	-0.018254	11.251762	-0.213691	0.835446	0.93859	-6.234611
LOC1001324	0.0200237	8.260124	0.2136037	0.8355119	0.93859	-6.23463
HIST2H2AC	-0.025151	8.3043916	-0.213584	0.8355267	0.93859	-6.234635
FAM69A	-0.023088	9.2808734	-0.213529	0.8355684	0.93859	-6.234647
SLC8A1	0.015179	6.7873297	0.2132826	0.8357551	0.93866	-6.234703
TNFAIP6	-0.014764	6.9554522	-0.213231	0.8357942	0.93866	-6.234715
DAP3	-0.017967	10.813784	-0.213057	0.8359257	0.93866	-6.234754
FBXL15	0.0163753	7.9179518	0.2129994	0.8359695	0.93866	-6.234767
TNIK	-0.013621	6.7101194	-0.212759	0.8361517	0.93866	-6.234822
CCDC43	-0.021501	8.3212743	-0.212733	0.8361714	0.93866	-6.234828
CARD14	0.0139182	7.5651519	0.2127322	0.8361719	0.93866	-6.234828
SLC45A4	-0.017392	6.8941954	-0.212676	0.8362145	0.93866	-6.234841

TMEM150B	0.0134707	6.8760636	0.2126732	0.8362166	0.93866	-6.234841
MAN2A2	0.0170682	7.0326659	0.2125945	0.8362762	0.93866	-6.234859
CTNNAL1	0.017448	9.4235332	0.2124399	0.8363933	0.93869	-6.234894
PNMA2	-0.013754	6.830116	-0.212283	0.8365125	0.93869	-6.23493
NKTR	0.0214214	8.6066878	0.2121601	0.8366052	0.93869	-6.234957
FSTL1	-0.019283	6.7648862	-0.212055	0.8366847	0.93869	-6.234981
5-Sep	-0.014997	6.8211165	-0.21204	0.8366961	0.93869	-6.234984
BRCA2	-0.014536	6.8591512	-0.21202	0.8367115	0.93869	-6.234989
RNF7	0.0164251	9.6471717	0.2119637	0.836754	0.93869	-6.235002
LINC01597	0.0247069	6.9868782	0.2118872	0.836812	0.93869	-6.235019
LAX1	0.0184839	7.7400109	0.2116347	0.8370032	0.93883	-6.235076
FAM197Y2	0.0198819	6.9414609	0.210877	0.8375773	0.9394	-6.235246
NEK11	0.0127456	6.891944	0.2107604	0.8376656	0.93943	-6.235272
PPM1B	-0.015743	7.4269303	-0.210652	0.8377478	0.93944	-6.235296
ARHGAP28	-0.01873	6.8686652	-0.210506	0.8378582	0.93944	-6.235329
CALU	-0.01894	8.6813034	-0.210358	0.8379707	0.93944	-6.235362
CIAO1	0.013896	9.5234999	0.2103352	0.8379878	0.93944	-6.235367
PPP6C	-0.020451	11.202049	-0.21023	0.8380674	0.93944	-6.235391
COLQ	-0.0136	7.0123885	-0.210143	0.8381336	0.93944	-6.23541
CSF1R	-0.0174	6.9967604	-0.210143	0.8381338	0.93944	-6.23541
AP4S1	0.0187196	6.8610625	0.2100121	0.8382326	0.93944	-6.235439
MIR665	0.0145053	6.8623651	0.2099881	0.8382509	0.93944	-6.235445
PATZ1	0.020978	7.0815753	0.209848	0.838357	0.93948	-6.235476
CCDC169	-0.016816	6.9458523	-0.209656	0.8385027	0.93957	-6.235519
YIF1B	-0.014072	8.7613027	-0.209352	0.8387326	0.93976	-6.235587
PTGDS	0.0181418	6.8457834	0.2092198	0.8388332	0.9398	-6.235616
ZNF587	-0.013047	6.8686035	-0.208746	0.8391923	0.94013	-6.235721
INSM1	-0.013411	7.2207235	-0.208031	0.8397345	0.94056	-6.23588
ARHGEF17	0.0138437	6.8109444	0.2080204	0.8397424	0.94056	-6.235882
NHLRC3	-0.017848	7.5263754	-0.20799	0.8397658	0.94056	-6.235889
CCRL2	0.0134175	6.8298833	0.2078771	0.839851	0.94058	-6.235914
LOC729810	0.0201912	7.1225673	0.2077624	0.839938	0.9406	-6.235939
RGS1	0.0218645	10.621449	0.2075739	0.8400809	0.94064	-6.235981
SIRT1	0.0222531	8.3740296	0.2075509	0.8400984	0.94064	-6.235986
RASA3	-0.013676	6.8197197	-0.207301	0.8402875	0.94078	-6.236041
TRIM59	-0.020163	6.8898544	-0.207125	0.8404216	0.94086	-6.23608
MB21D1	-0.014413	6.7806265	-0.206903	0.8405896	0.94097	-6.236129
HMGN2	-0.013813	10.061599	-0.206744	0.8407103	0.94104	-6.236164
SNN	-0.018364	7.6787842	-0.206549	0.8408579	0.94113	-6.236207
CFAP69	-0.014726	6.834112	-0.20642	0.8409561	0.94117	-6.236235
HELZ2	-0.015482	7.1224933	-0.206065	0.8412255	0.9414	-6.236313
MUT	0.0134797	7.7885563	0.205945	0.8413163	0.94142	-6.236339
AP5B1	-0.016614	7.1272492	-0.205872	0.8413719	0.94142	-6.236355
GCDH	0.0155176	8.6764046	0.205737	0.8414741	0.94145	-6.236385
AMACR	-0.012458	7.1876943	-0.205664	0.8415293	0.94145	-6.236401

TRNP1	-0.014328	6.8095836	-0.205565	0.8416043	0.94146	-6.236422
HDAC2	0.0184453	9.1507329	0.2054267	0.8417094	0.94147	-6.236453
RPL18A	-0.01262	14.401038	-0.205374	0.8417494	0.94147	-6.236464
PRKAG1	0.0133131	8.5499797	0.2052355	0.8418545	0.94147	-6.236494
LINC01960	0.0132405	6.9081988	0.2051686	0.8419053	0.94147	-6.236509
OR10C1	0.0130248	6.8457487	0.2051315	0.8419334	0.94147	-6.236517
RAB14	0.0147092	7.0511618	0.2048905	0.8421163	0.9416	-6.23657
SPCS1	-0.016879	12.077201	-0.203834	0.8429182	0.94242	-6.236799
TMEM86B	0.0129941	7.79821	0.2035847	0.8431072	0.94247	-6.236853
SNORA38B	-0.025148	7.2486491	-0.20357	0.8431183	0.94247	-6.236856
SYCP2L	-0.016026	6.8310514	-0.203478	0.8431882	0.94247	-6.236876
SREK1IP1	-0.019715	6.914952	-0.203439	0.8432177	0.94247	-6.236885
CMYA5	0.0144863	6.7135733	0.2032044	0.8433958	0.94254	-6.236936
USP6	-0.019068	6.9959903	-0.203085	0.8434866	0.94254	-6.236961
BRF2	-0.017836	7.6356315	-0.203041	0.8435202	0.94254	-6.236971
KLC4	-0.016859	7.1208084	-0.203016	0.843539	0.94254	-6.236976
PROSER2	0.0131648	7.3081622	0.2027984	0.843704	0.94265	-6.237023
COLEC11	-0.016674	7.0534503	-0.202718	0.8437646	0.94265	-6.237041
GGT7	-0.017734	6.7538524	-0.202553	0.8438906	0.94271	-6.237076
MFSD9	-0.014845	6.8743548	-0.20247	0.8439533	0.94271	-6.237094
TMEFF1	0.0231924	7.4710913	0.2023381	0.8440534	0.94275	-6.237122
TMEM104	0.0147924	6.9081393	0.2022056	0.844154	0.94279	-6.237151
MRAP2	0.0132822	6.7974702	0.2020415	0.8442786	0.94281	-6.237186
HSPA6	-0.01435	7.2497962	-0.202018	0.8442966	0.94281	-6.237191
NUDT8	-0.01609	7.2479416	-0.201772	0.8444833	0.9429	-6.237244
ABCC10	-0.014951	6.9953277	-0.201688	0.8445469	0.9429	-6.237262
UBXN2A	-0.016336	8.5127653	-0.201592	0.84462	0.9429	-6.237283
SLC25A47	-0.020781	6.952054	-0.201453	0.8447258	0.9429	-6.237313
JMJD6	0.0157554	7.6581797	0.2013962	0.8447686	0.9429	-6.237325
9-Sep	-0.018077	13.230073	-0.201371	0.8447877	0.9429	-6.23733
STRN3	0.0247499	8.8253163	0.2013145	0.8448306	0.9429	-6.237342
KLHL9	0.0141318	7.9983017	0.2009897	0.8450773	0.94304	-6.237412
WDR63	-0.013389	6.8270378	-0.200911	0.845137	0.94304	-6.237429
KDELR2	-0.012803	9.7562718	-0.2009	0.8451455	0.94304	-6.237431
PARVA	-0.01343	6.7911289	-0.200688	0.8453064	0.94308	-6.237476
MTM1	-0.022557	7.3240521	-0.200679	0.8453129	0.94308	-6.237478
TMEM150C	-0.01297	6.8657088	-0.200369	0.8455485	0.94323	-6.237544
TMEM116	0.0137941	8.5147914	0.2001435	0.8457199	0.94323	-6.237592
GNL3L	0.0256104	8.640586	0.2000884	0.8457617	0.94323	-6.237604
IGFBP4	0.0144736	6.7698496	0.2000345	0.8458026	0.94323	-6.237616
LIPT1	0.0132237	7.7521088	0.2000132	0.8458189	0.94323	-6.23762
TUB	0.0135453	6.7436636	0.1999936	0.8458338	0.94323	-6.237624
VIT	-0.01236	6.8107539	-0.199332	0.846336	0.94371	-6.237765
LDLRAD3	-0.014166	6.7797291	-0.199081	0.8465271	0.94381	-6.237818
OR2A1	-0.013215	6.9056706	-0.199005	0.8465847	0.94381	-6.237834

UTY	-0.014175	7.3264031	-0.198889	0.8466732	0.94381	-6.237859
DOCK2	0.019529	11.265008	0.1988806	0.8466792	0.94381	-6.237861
TYROBP	0.0122028	6.774876	0.1985851	0.8469037	0.94399	-6.237923
ITGA11	-0.014701	7.1586488	-0.198484	0.8469809	0.944	-6.237944
GYS1	0.0136226	7.346522	0.1975611	0.8476819	0.94468	-6.238139
GFI1	0.0137785	7.4809084	0.1975104	0.8477204	0.94468	-6.23815
ZNF444	-0.018989	7.9762604	-0.197323	0.8478632	0.94477	-6.238189
MCF2L2	-0.016715	6.9341934	-0.197198	0.8479582	0.9448	-6.238215
MAB21L3	0.0140234	6.8553417	0.1967703	0.8482829	0.94509	-6.238305
TMEM8B	-0.013296	7.3951971	-0.196573	0.8484329	0.94516	-6.238346
BORCS6	-0.015619	7.1401781	-0.196514	0.8484776	0.94516	-6.238358
MIR599	0.0145376	7.3908011	0.1961596	0.8487471	0.94529	-6.238432
DNAJC25-GI	0.0208931	7.0345984	0.1961022	0.8487908	0.94529	-6.238444
TFEC	-0.019348	7.1124192	-0.195701	0.8490957	0.94529	-6.238528
HSD3B7	-0.011905	6.8610993	-0.195679	0.8491125	0.94529	-6.238533
NDRG4	-0.014429	6.854602	-0.195648	0.8491361	0.94529	-6.238539
OR51B4	0.0137303	6.8976445	0.1956419	0.8491407	0.94529	-6.23854
GIGYF1	0.0132672	6.9041664	0.1955637	0.8492002	0.94529	-6.238557
ALG9	0.0121413	9.2545238	0.1955516	0.8492093	0.94529	-6.238559
FAM163B	0.0125301	6.9096149	0.1955034	0.849246	0.94529	-6.238569
LINC01686	0.016251	6.7946525	0.195371	0.8493466	0.94529	-6.238597
KDELR3	0.0122873	6.7488035	0.1951279	0.8495315	0.94529	-6.238647
APPBP2	-0.016396	8.2268778	-0.195087	0.8495624	0.94529	-6.238656
C8orf58	-0.013963	6.8284118	-0.195028	0.8496076	0.94529	-6.238668
TRIM29	-0.011768	6.8845989	-0.194977	0.8496461	0.94529	-6.238679
BRI3BP	-0.014556	8.7137107	-0.194969	0.8496525	0.94529	-6.23868
C18orf8	0.0180159	10.131431	0.1949186	0.8496906	0.94529	-6.238691
RASSF1	-0.016008	7.7560903	-0.194917	0.8496918	0.94529	-6.238691
XCR1	-0.017301	7.1481116	-0.194537	0.8499811	0.94547	-6.23877
ZNF713	0.0160262	6.9815173	0.1943932	0.8500901	0.94547	-6.2388
NR2F1	-0.01665	6.7643378	-0.194322	0.8501443	0.94547	-6.238814
MYLK4	0.0123859	6.8708632	0.1943052	0.8501571	0.94547	-6.238818
MLC1	0.0120241	6.909841	0.1942798	0.8501764	0.94547	-6.238823
CD8A	0.0169935	6.7995803	0.1940149	0.8503779	0.94562	-6.238878
OR1K1	-0.015878	6.8714896	-0.193715	0.8506063	0.9458	-6.23894
C6orf183	-0.018385	7.3544967	-0.193494	0.8507737	0.94584	-6.238985
GORASP1	0.0236138	8.8394729	0.1934273	0.8508248	0.94584	-6.238999
NEMP2	0.0135991	6.9552342	0.1933926	0.8508512	0.94584	-6.239006
STK10	-0.013614	7.7174042	-0.193327	0.8509013	0.94584	-6.23902
AEN	0.0135942	9.336897	0.1927197	0.851363	0.94625	-6.239144
VPS26A	0.020945	8.8414253	0.1926279	0.8514329	0.94625	-6.239163
UVRAG	0.0175951	8.1844101	0.1925918	0.8514604	0.94625	-6.239171
12-Sep	0.0142652	6.876985	0.1917675	0.8520875	0.94681	-6.239339
CCPG1	-0.014582	7.237484	-0.191753	0.8520987	0.94681	-6.239342
KCNMB1	0.0142886	8.2554108	0.191299	0.852444	0.94701	-6.239435

TMEM182	0.0121389	6.9889612	0.1912181	0.8525056	0.94701	-6.239451
PPT2	-0.0125	6.8957286	-0.191163	0.8525475	0.94701	-6.239462
UBQLN3	0.0117722	6.9186111	0.1911572	0.8525519	0.94701	-6.239464
FLT3	0.0119306	6.7863827	0.1910519	0.8526321	0.94701	-6.239485
TNC	0.0142942	7.2865442	0.1910035	0.8526689	0.94701	-6.239495
ORC4	0.0148956	7.2458884	0.1906218	0.8529594	0.94726	-6.239572
BMP2	-0.014393	6.7791687	-0.190383	0.8531411	0.94739	-6.239621
CLN8	-0.01285	7.148016	-0.190151	0.8533175	0.94746	-6.239668
WASHC2C	-0.012651	7.1925854	-0.190135	0.8533299	0.94746	-6.239671
PDLIM7	-0.011681	7.2505274	-0.189654	0.853696	0.94774	-6.239768
DUX4L5	-0.012594	7.02334	-0.189547	0.8537772	0.94774	-6.23979
LY6E	-0.015403	7.7376299	-0.189437	0.8538611	0.94774	-6.239812
GFRA2	0.013923	7.0261715	0.189288	0.8539747	0.94774	-6.239842
SLC22A6	-0.012834	7.0083805	-0.189271	0.853988	0.94774	-6.239846
TSR3	0.01363	7.9513368	0.1892103	0.8540339	0.94774	-6.239858
TOR1B	0.0126139	7.7319975	0.1892064	0.8540368	0.94774	-6.239858
UFL1	-0.013784	7.296424	-0.18866	0.8544529	0.94813	-6.239968
SLC1A5	0.0227108	9.353663	0.1884731	0.8545951	0.94821	-6.240006
CFL1	0.0152834	13.01274	0.1882428	0.8547705	0.94834	-6.240052
ITGA5	-0.014451	6.7695525	-0.187968	0.8549797	0.9485	-6.240107
GAL3ST4	-0.012372	7.0100033	-0.187702	0.8551827	0.94855	-6.24016
USP46	0.0136189	7.2253995	0.1876543	0.8552187	0.94855	-6.24017
C1orf112	-0.013434	8.5729938	-0.187652	0.8552204	0.94855	-6.24017
DPM2	-0.012045	7.7175773	-0.187132	0.8556168	0.94892	-6.240274
DOK2	-0.012065	6.7838625	-0.18699	0.8557244	0.94896	-6.240302
LOC1001343	-0.014332	7.0899004	-0.186442	0.8561417	0.94935	-6.240411
CHPF2	0.0217058	7.2579997	0.186032	0.8564543	0.94954	-6.240493
CCSAP	-0.016269	7.0082284	-0.185977	0.8564965	0.94954	-6.240504
PKIG	-0.012639	7.6936174	-0.185922	0.8565379	0.94954	-6.240514
3-Sep	-0.011385	6.8043076	-0.185875	0.8565742	0.94954	-6.240524
OXER1	-0.015863	6.8790975	-0.185452	0.8568962	0.94983	-6.240607
LDHAL6A	0.0209667	7.0684183	0.185305	0.8570082	0.94988	-6.240636
TINF2	0.0111623	9.7792979	0.1851458	0.8571296	0.94993	-6.240668
LOC374443	0.0216439	7.4404345	0.1850408	0.8572095	0.94993	-6.240688
LRRC37A4P	0.0136251	7.0862378	0.1849924	0.8572465	0.94993	-6.240698
BEND6	0.0125967	6.7642202	0.1847447	0.8574352	0.94998	-6.240747
ECHDC2	-0.011407	6.710256	-0.184678	0.8574859	0.94998	-6.24076
CCL23	0.0146222	6.7964991	0.1846735	0.8574895	0.94998	-6.240761
ACSS3	0.0176392	7.0443184	0.1845323	0.8575971	0.95003	-6.240788
DGKH	-0.011936	6.9165755	-0.183958	0.8580348	0.95044	-6.240901
SMC1B	-0.015673	6.8525075	-0.183738	0.858202	0.95055	-6.240944
ZFAS1	-0.018423	12.660139	-0.183397	0.8584623	0.95077	-6.241011
FEZ1	0.0111541	6.9414315	0.1832237	0.8585944	0.95079	-6.241045
ZNF273	-0.016002	7.0617775	-0.183209	0.8586058	0.95079	-6.241048
RAB27A	0.0107889	6.8469937	0.1829745	0.8587844	0.9509	-6.241093

UCHL3	-0.017943	10.52086	-0.182828	0.8588961	0.9509	-6.241122
SAMD11	-0.014292	6.9919229	-0.1828	0.8589173	0.9509	-6.241127
SCIN	-0.012306	6.7977151	-0.182708	0.8589875	0.9509	-6.241145
ERN1	-0.014035	8.092451	-0.18263	0.8590469	0.9509	-6.24116
CPNE8	0.0115352	6.7457922	0.1825335	0.8591206	0.9509	-6.241179
SLC9A5	0.0151779	6.9131604	0.1824805	0.8591609	0.9509	-6.241189
DSP	0.0107598	6.923716	0.1823437	0.8592653	0.95091	-6.241216
PIP5KL1	0.0144561	6.8922067	0.1822886	0.8593073	0.95091	-6.241227
UBE2C	0.01287	9.9533829	0.1821606	0.8594049	0.95095	-6.241251
TSSK6	0.0169952	6.9823225	0.1820356	0.8595001	0.95098	-6.241276
SLC16A10	0.0118317	6.6966282	0.1815891	0.8598406	0.95122	-6.241362
COPG2IT1	0.0160401	6.9428089	0.1815802	0.8598474	0.95122	-6.241364
CAPN2	0.0144203	6.8899777	0.18119	0.8601449	0.95147	-6.241439
OLFML3	0.0188266	6.9371202	0.1810472	0.8602538	0.95147	-6.241467
FBLN2	-0.015027	6.8780517	-0.18103	0.860267	0.95147	-6.24147
HOMER2	0.0110962	6.8485053	0.1808066	0.8604373	0.95155	-6.241513
PRSS2	0.0270203	6.9559159	0.1807218	0.860502	0.95155	-6.241529
MEIS3P1	0.0118479	6.8566448	0.1806738	0.8605386	0.95155	-6.241539
CASP9	0.0125832	7.8310232	0.1803503	0.8607853	0.95175	-6.241601
APOL3	-0.01467	8.4669976	-0.180137	0.8609483	0.95186	-6.241642
LPAR1	-0.013021	6.8069818	-0.179563	0.8613861	0.95227	-6.241752
IMPAD1	0.013837	8.3555498	0.1794788	0.8614501	0.95227	-6.241768
HOOK1	0.0125796	6.8382237	0.1792846	0.8615983	0.95236	-6.241805
SERPINA9	0.0144764	10.628227	0.1788205	0.8619523	0.95264	-6.241893
GAD1	-0.01125	6.851185	-0.178782	0.8619818	0.95264	-6.241901
MIR448	-0.012655	6.9082718	-0.17855	0.8621585	0.95265	-6.241945
ARFGAP2	-0.015285	9.0008467	-0.178481	0.8622115	0.95265	-6.241958
LINC00599	0.0160339	6.9708517	0.178375	0.8622921	0.95265	-6.241978
LRPAP1	-0.015569	8.6707455	-0.178361	0.8623031	0.95265	-6.241981
RBMXL1	-0.010885	7.1189903	-0.178191	0.8624324	0.95265	-6.242013
CAMK1D	0.0130104	6.937449	0.1780043	0.8625751	0.95265	-6.242049
GID4	0.011953	7.4145386	0.1779044	0.8626512	0.95265	-6.242067
CCDC96	0.0107795	6.8524375	0.1778774	0.8626718	0.95265	-6.242073
ERI2	0.0132739	7.0834236	0.1777789	0.862747	0.95265	-6.242091
CBR1	-0.011941	6.7776448	-0.177728	0.8627862	0.95265	-6.242101
OR2AG1	0.010745	6.867023	0.1776926	0.8628129	0.95265	-6.242108
C6orf163	-0.018008	7.0424993	-0.177687	0.8628169	0.95265	-6.242109
RMND5B	0.0131119	7.9341557	0.1776614	0.8628367	0.95265	-6.242114
SMG6	0.0152444	6.9449268	0.1774407	0.8630051	0.95272	-6.242155
SLC25A29	0.0117151	6.7341631	0.1773646	0.8630632	0.95272	-6.24217
OR8G2P	-0.012857	6.8442941	-0.17732	0.8630973	0.95272	-6.242178
WT1	0.0108692	6.8267195	0.1772018	0.8631874	0.95275	-6.2422
ACTRT3	-0.011305	7.0385183	-0.176813	0.8634841	0.95301	-6.242274
ZNF417	0.014663	7.1883943	0.1763564	0.8638327	0.95332	-6.24236
CLDN4	-0.022843	7.0595572	-0.176094	0.8640329	0.95338	-6.242409

SUPT3H	-0.011843	7.0072093	-0.176086	0.8640387	0.95338	-6.24241
COL6A2	0.012134	6.864459	0.175969	0.8641284	0.95338	-6.242432
PIPSL	-0.015336	8.9227369	-0.175943	0.864148	0.95338	-6.242437
FAM173A	-0.017985	9.0290827	-0.175781	0.8642718	0.9534	-6.242467
IGSF1	-0.01058	6.7526647	-0.175749	0.8642965	0.9534	-6.242473
KERA	-0.015478	6.8868897	-0.175561	0.86444	0.95348	-6.242509
ZNF823	-0.01598	7.8023483	-0.175361	0.8645925	0.95358	-6.242546
ZNF70	0.0111576	6.8975632	0.1750721	0.8648131	0.95375	-6.2426
ELK4	-0.010549	7.1921935	-0.174771	0.865043	0.95384	-6.242656
MAPK9	0.012837	8.416776	0.1747594	0.8650519	0.95384	-6.242658
BUB1B	0.0203985	8.2904361	0.1746513	0.8651344	0.95384	-6.242678
USP6NL	-0.020043	8.9705635	-0.174604	0.8651705	0.95384	-6.242687
CSNK2A3	-0.01106	8.0425213	-0.174487	0.8652596	0.95384	-6.242709
FBXL12	-0.011592	8.0262459	-0.174456	0.8652836	0.95384	-6.242715
PNPLA3	-0.015909	6.8479318	-0.174366	0.8653522	0.95384	-6.242731
FKBP10	-0.011907	6.8334395	-0.174079	0.8655711	0.95395	-6.242785
UFM1	0.0158125	9.0119987	0.1740654	0.8655818	0.95395	-6.242787
AHSA1	0.016373	10.495024	0.1738288	0.8657624	0.95406	-6.242831
LOC1001313	-0.013551	6.9298166	-0.173399	0.8660911	0.95406	-6.242911
GP5	-0.017051	6.892905	-0.173391	0.8660969	0.95406	-6.242912
ABHD17A	0.0105998	6.7838106	0.1733704	0.8661125	0.95406	-6.242916
TOMM40	-0.017956	12.274614	-0.173234	0.8662168	0.95406	-6.242941
SLC9A3R1	0.0126889	9.8387142	0.1731769	0.8662603	0.95406	-6.242951
SMIM10L2A	-0.011702	6.9300127	-0.17315	0.8662807	0.95406	-6.242956
ARHGEF11	0.012145	6.8658683	0.1730132	0.8663854	0.95406	-6.242982
ELANE	0.0131307	6.8119353	0.1730027	0.8663934	0.95406	-6.242984
SNORD88B	0.0150559	6.9544454	0.1729398	0.8664414	0.95406	-6.242995
TYMP	-0.011674	7.5724726	-0.172796	0.8665514	0.95406	-6.243022
FBXO43	-0.012701	6.7960104	-0.172755	0.8665828	0.95406	-6.243029
PISD	-0.018055	9.2081444	-0.172749	0.8665868	0.95406	-6.24303
CLCN6	0.0145023	8.0676748	0.1727419	0.8665926	0.95406	-6.243032
SEMA7A	-0.012338	7.0429739	-0.172601	0.8667005	0.9541	-6.243058
CTNNB1	0.0109035	8.6619235	0.1724906	0.8667845	0.95412	-6.243078
EPG5	0.0121188	6.920876	0.172061	0.8671127	0.9544	-6.243157
CSMD1	-0.011219	6.9676741	-0.171986	0.8671699	0.9544	-6.24317
ZNF137P	-0.015925	7.3018296	-0.171414	0.8676073	0.95478	-6.243275
MRPS18B	-0.017293	9.8708108	-0.171366	0.8676435	0.95478	-6.243284
TGFBRAP1	0.0488498	8.1392159	0.1709195	0.8679848	0.95499	-6.243365
PDZD4	0.0123043	6.9001432	0.1709139	0.8679891	0.95499	-6.243366
TOX	-0.012638	8.150416	-0.170828	0.8680545	0.95499	-6.243382
CSDE1	0.0107147	7.5894136	0.1707716	0.8680978	0.95499	-6.243392
DDX5	-0.012025	9.6615587	-0.170692	0.8681588	0.95499	-6.243407
PLA1A	-0.012122	7.2257064	-0.170418	0.8683679	0.95502	-6.243456
PTTG1IP	-0.011964	9.6588277	-0.170393	0.8683871	0.95502	-6.243461
CROCC	0.0142426	6.8722141	0.1703494	0.8684204	0.95502	-6.243469

GRIN2B	0.0113588	6.9670672	0.1703146	0.868447	0.95502	-6.243475
LLGL1	-0.014605	8.1227838	-0.17015	0.8685732	0.95507	-6.243505
CXCL16	-0.010951	6.7261204	-0.170077	0.8686284	0.95507	-6.243518
TGFBR1	-0.013152	6.8927912	-0.169608	0.8689869	0.95529	-6.243603
MEF2D	0.0104963	9.2899035	0.1695788	0.8690093	0.95529	-6.243608
CGB8	0.0139396	6.975367	0.1695665	0.8690188	0.95529	-6.243611
EXOC6	0.0103392	7.450305	0.1693389	0.8691927	0.95533	-6.243652
EML2	-0.014048	7.6492943	-0.169249	0.8692614	0.95533	-6.243668
PCDH1	-0.011525	6.8286562	-0.169244	0.8692653	0.95533	-6.243669
RNU105C	0.016542	7.062957	0.1691091	0.8693684	0.95533	-6.243693
GDPD2	0.0100745	6.9414857	0.1690913	0.869382	0.95533	-6.243696
C2orf50	-0.013582	6.8604885	-0.168983	0.8694648	0.95534	-6.243716
C2CD3	0.0105449	6.7920506	0.16885	0.8695664	0.95536	-6.24374
ENGASE	-0.014449	7.093022	-0.168723	0.8696639	0.95536	-6.243763
FAM131B	0.0126479	6.9691369	0.1686989	0.8696819	0.95536	-6.243767
NINJ1	-0.014543	8.1078445	-0.168624	0.8697395	0.95536	-6.24378
RPS26P11	-0.015912	14.105555	-0.168406	0.8699059	0.95537	-6.24382
FBXO6	0.0103125	6.8281696	0.1684005	0.86991	0.95537	-6.243821
ZMYM1	-0.017307	8.3549287	-0.168243	0.8700307	0.95537	-6.243849
EPM2A	-0.014952	7.5972005	-0.16823	0.8700402	0.95537	-6.243851
LOC1002887	0.0115091	6.9757512	0.1681825	0.8700767	0.95537	-6.24386
MCCC1	0.0154338	9.6314325	0.1680369	0.870188	0.9554	-6.243886
ZFP2	0.010878	6.8446581	0.167969	0.8702399	0.9554	-6.243898
CLEC12A	0.0103003	6.8094658	0.1678314	0.8703451	0.95545	-6.243922
ATXN1	-0.012735	7.3299842	-0.167151	0.8708652	0.95575	-6.244044
OR52W1	0.0158599	6.8494207	0.1671088	0.8708976	0.95575	-6.244051
RAB11A	-0.021147	11.173702	-0.1671	0.8709043	0.95575	-6.244053
AKT3	0.0107828	6.8509192	0.1670841	0.8709165	0.95575	-6.244056
SLED1	0.014233	6.9008479	0.1669625	0.8710095	0.95575	-6.244077
NUDT22	0.0146659	8.8860903	0.166959	0.8710121	0.95575	-6.244078
SKIL	0.0140626	6.8859175	0.1667139	0.8711996	0.95588	-6.244122
PDXK	-0.01067	9.4011755	-0.166638	0.8712577	0.95588	-6.244135
ITGB4	0.0100781	6.8120884	0.1664592	0.8713943	0.95595	-6.244167
PRKY	0.0104915	7.4675699	0.166261	0.8715459	0.95596	-6.244202
FAM156A	-0.015291	7.9148011	-0.166212	0.8715834	0.95596	-6.244211
DET1	-0.012228	7.2684063	-0.166192	0.8715985	0.95596	-6.244214
IL23A	-0.011007	7.2050236	-0.165849	0.8718608	0.95611	-6.244275
RWDD1	0.0099677	9.8415877	0.1658487	0.8718612	0.95611	-6.244275
LARGE1	0.0104058	7.5718711	0.1656733	0.8719954	0.95612	-6.244306
INPP4A	-0.012972	7.1635498	-0.165663	0.8720035	0.95612	-6.244308
EBF4	-0.010156	6.8705136	-0.165451	0.8721654	0.95619	-6.244345
SLC51A	-0.011839	6.7793372	-0.165357	0.8722374	0.95619	-6.244362
LBHD1	0.0166391	10.837083	0.1653257	0.8722613	0.95619	-6.244367
DDX59	-0.010468	8.1447841	-0.164777	0.8726812	0.95657	-6.244464
PPP2R5B	0.0135099	7.0729651	0.1643904	0.8729767	0.95665	-6.244531

CCDC184	0.0123135	7.1029876	0.164368	0.8729938	0.95665	-6.244535
ZNF280D	-0.011181	6.813426	-0.164367	0.8729947	0.95665	-6.244536
LHFPL1	-0.020192	7.0254934	-0.164345	0.8730111	0.95665	-6.244539
PSAPL1	-0.01186	6.9434126	-0.164154	0.8731574	0.95674	-6.244573
CYP2J2	-0.012233	6.7715557	-0.163787	0.8734381	0.95697	-6.244637
CNTLN	-0.011725	6.9818265	-0.16367	0.873528	0.957	-6.244657
LRRC63	0.0116497	6.8881684	0.1633192	0.8737963	0.95715	-6.244719
BROX	0.0111542	6.8360195	0.1631816	0.8739015	0.95715	-6.244742
WDR55	-0.014606	8.3912515	-0.162984	0.8740529	0.95715	-6.244777
EBF2	0.0113242	6.9854497	0.1629193	0.8741023	0.95715	-6.244788
RETREG1	-0.012236	6.7248951	-0.162909	0.8741104	0.95715	-6.24479
SENP8	0.0123151	6.7974452	0.1628959	0.8741202	0.95715	-6.244792
KIF18A	-0.01415	7.820589	-0.162676	0.8742888	0.95715	-6.24483
TMEM55B	-0.016446	8.785661	-0.162564	0.8743743	0.95715	-6.24485
TTLL1	-0.010294	7.0152028	-0.16241	0.8744922	0.95715	-6.244876
HCRTR2	0.0097043	6.82851	0.162406	0.8744951	0.95715	-6.244877
CD46	0.0126351	8.1219519	0.1622172	0.8746396	0.95715	-6.24491
PDK2	-0.013238	6.9886105	-0.162021	0.8747895	0.95715	-6.244944
PECAM1	-0.015218	6.8994637	-0.161971	0.8748284	0.95715	-6.244952
SACS	0.0134286	7.0553547	0.161887	0.8748923	0.95715	-6.244967
FAM160A1	0.0103456	6.8743085	0.1618335	0.8749333	0.95715	-6.244976
WDR92	-0.011019	8.4182159	-0.161748	0.8749987	0.95715	-6.244991
MT1M	0.0098882	6.7203905	0.1617442	0.8750016	0.95715	-6.244991
DZIP3	-0.017861	7.0830405	-0.161654	0.8750709	0.95715	-6.245007
ZNF446	0.0130767	6.939596	0.1616533	0.8750712	0.95715	-6.245007
SLAIN1	-0.01134	9.0080537	-0.161652	0.8750725	0.95715	-6.245007
CDKN2B	0.011633	6.8731439	0.1616131	0.8751019	0.95715	-6.245014
CDCA4	0.0110982	9.0869481	0.1615926	0.8751176	0.95715	-6.245017
KLC2	0.0127629	7.1790909	0.1614777	0.8752055	0.95715	-6.245037
ZBED2	0.0115229	7.0476212	0.1614276	0.8752439	0.95715	-6.245046
ELMOD3	0.0137246	7.3348873	0.161017	0.8755582	0.95737	-6.245116
PIGZ	-0.011771	6.7103784	-0.160759	0.8757556	0.95737	-6.245161
NBR2	-0.013661	7.703902	-0.160599	0.8758786	0.95737	-6.245188
PANX1	0.0097931	6.9463933	0.1605192	0.8759393	0.95737	-6.245202
COL11A2	0.0201375	7.0082993	0.1604789	0.8759702	0.95737	-6.245209
AGMAT	0.0106931	6.7665711	0.160259	0.8761385	0.95737	-6.245246
QSOX1	0.011833	7.4593358	0.1600751	0.8762793	0.95737	-6.245278
ADAP1	-0.010886	6.9164209	-0.16006	0.8762909	0.95737	-6.24528
FOPNL	0.0121129	9.8513238	0.1600354	0.8763097	0.95737	-6.245284
DNAJB13	-0.012391	6.8633434	-0.160035	0.87631	0.95737	-6.245284
TMEM134	0.0145574	9.116569	0.1598104	0.8764819	0.95737	-6.245323
FAM13B	0.0127642	9.0677194	0.15976	0.8765205	0.95737	-6.245331
C6orf222	-0.012118	6.8219255	-0.159593	0.8766485	0.95737	-6.24536
SIT1	-0.013791	7.8604495	-0.15959	0.8766505	0.95737	-6.24536
CYP20A1	-0.010721	7.7430649	-0.159475	0.876739	0.95737	-6.24538

ARL11	0.0106631	6.9064013	0.1594579	0.8767518	0.95737	-6.245383
UQCRQ	0.0147006	12.964537	0.1594525	0.876756	0.95737	-6.245384
ERMARD	0.0111937	7.9103265	0.1594164	0.8767836	0.95737	-6.24539
HOXA1	-0.011495	6.9094729	-0.159413	0.8767865	0.95737	-6.24539
FUCA1	-0.013822	9.3696517	-0.159321	0.876857	0.95737	-6.245406
ABI1	0.0104971	9.0064085	0.1591589	0.8769808	0.95737	-6.245433
GDI2	0.0117905	11.468309	0.1591422	0.8769936	0.95737	-6.245436
ZC3HAV1L	0.0098585	6.9384255	0.1591206	0.8770102	0.95737	-6.24544
CNDP2	-0.009718	12.171596	-0.159117	0.8770132	0.95737	-6.245441
POMT2	-0.020244	7.8361413	-0.15886	0.8772098	0.95749	-6.245484
THNSL1	0.0105075	7.840967	0.1587939	0.8772603	0.95749	-6.245495
MRPL28	0.0146512	7.8963325	0.1585453	0.8774507	0.9575	-6.245537
HPS6	0.0156708	10.406213	0.1584763	0.8775035	0.9575	-6.245549
BCL2L11	0.0116864	7.7889928	0.1582633	0.8776667	0.9575	-6.245585
DCTPP1	-0.011915	11.854423	-0.158231	0.8776916	0.9575	-6.24559
GOSR1	-0.012599	7.2200495	-0.158222	0.8776982	0.9575	-6.245592
GDPD1	0.0106734	7.304586	0.1580513	0.877829	0.9575	-6.245621
IER5L	0.0099506	6.8258431	0.1580368	0.8778401	0.9575	-6.245623
C12orf4	0.0145257	8.7956001	0.1578878	0.8779542	0.9575	-6.245648
PFN1P2	-0.011943	6.9232577	-0.157883	0.8779577	0.9575	-6.245649
KSR2	-0.014193	7.0085469	-0.157683	0.8781113	0.9575	-6.245683
CES1P1	-0.010415	6.8262156	-0.157601	0.8781737	0.9575	-6.245696
DAO	-0.01011	6.8314703	-0.157589	0.8781834	0.9575	-6.245699
IFT27	0.0148913	8.2036517	0.1575649	0.8782016	0.9575	-6.245702
DAB2	-0.00952	6.8421526	-0.157519	0.8782366	0.9575	-6.24571
AFF1	0.0137345	7.081112	0.1574578	0.8782836	0.9575	-6.24572
THBD	-0.01445	6.8379944	-0.157412	0.8783189	0.9575	-6.245728
KCNJ12	0.0105212	6.7938252	0.1568253	0.8787681	0.95792	-6.245826
FLJ42258	-0.009717	6.9819476	-0.15652	0.8790018	0.95807	-6.245877
TDRKH	0.0196667	7.0845512	0.1564728	0.8790381	0.95807	-6.245885
TMEM154	-0.010563	7.4119812	-0.156324	0.8791521	0.95813	-6.24591
USH1G	0.0146811	7.6360819	0.1558365	0.8795257	0.9584	-6.245991
FBXO5	-0.013766	8.9611264	-0.155818	0.8795398	0.9584	-6.245994
OTC	0.0119908	6.8092044	0.1557364	0.8796023	0.9584	-6.246008
IL18BP	-0.012846	7.2898649	-0.155594	0.8797116	0.95845	-6.246031
LIMK2	-0.010951	7.0493716	-0.155391	0.8798668	0.95845	-6.246065
SLC2A14	-0.010311	6.8740879	-0.155385	0.8798716	0.95845	-6.246066
TRAF7	0.0197141	7.3282604	0.1552245	0.8799946	0.95845	-6.246093
APMAP	-0.012513	8.8347103	-0.15519	0.8800213	0.95845	-6.246098
POM121	-0.015941	7.0223232	-0.155166	0.8800394	0.95845	-6.246102
ANP32A	-0.015623	7.5691997	-0.155063	0.8801182	0.95846	-6.246119
GAS1	-0.00995	6.8948381	-0.15493	0.8802202	0.9585	-6.246141
TMED8	0.0134949	6.8675254	0.15449	0.8805574	0.9588	-6.246214
SLC25A41	-0.009313	6.7885065	-0.154382	0.8806399	0.95882	-6.246232
STXBP5	0.0147623	7.4429288	0.1542538	0.8807384	0.95884	-6.246253

FBXO42	0.0112638	7.6840948	0.1541232	0.8808385	0.95884	-6.246274
POMP	-0.013977	12.19836	-0.154071	0.8808786	0.95884	-6.246283
HTR2B	-0.009444	6.808183	-0.154003	0.8809304	0.95884	-6.246294
KCNQ2	-0.009724	6.9818845	-0.153924	0.8809912	0.95884	-6.246307
LDAH	-0.010374	8.3928909	-0.153761	0.8811159	0.95885	-6.246334
RICTOR	0.0117733	6.8706282	0.1537323	0.8811381	0.95885	-6.246338
STMN1	-0.010169	8.8735984	-0.153656	0.8811967	0.95885	-6.246351
BGLAP	0.0136334	6.9937711	0.1535427	0.8812834	0.95886	-6.246369
FRY	-0.010166	6.8000378	-0.153424	0.8813742	0.95886	-6.246389
ZC4H2	-0.009657	7.2531701	-0.153382	0.8814063	0.95886	-6.246396
TFE3	0.0101282	7.3620965	0.1532831	0.8814824	0.95888	-6.246412
NECAB2	-0.010019	6.7509782	-0.153103	0.8816202	0.95895	-6.246441
OSBPL5	-0.010005	6.722223	-0.153003	0.8816973	0.95897	-6.246458
PHOSPHO2	0.0099538	7.6603407	0.1528617	0.8818054	0.95898	-6.246481
SCML1	-0.009493	6.8965932	-0.15282	0.8818375	0.95898	-6.246487
KDM7A	0.0105131	6.9354337	0.152422	0.8821425	0.95906	-6.246552
PROCA1	-0.011835	6.9931759	-0.152355	0.8821938	0.95906	-6.246563
RXFP1	-0.010254	6.6764966	-0.152316	0.882224	0.95906	-6.246569
ARHGEF39	0.0099005	6.9103474	0.152315	0.8822245	0.95906	-6.24657
SEC23A	-0.011723	7.2944401	-0.152218	0.8822991	0.95906	-6.246585
PPARG	0.0094956	6.7366132	0.1520992	0.88239	0.95906	-6.246605
CROT	0.0123558	7.3543783	0.1520612	0.8824191	0.95906	-6.246611
NSUN7	0.009344	6.8521814	0.1519773	0.8824835	0.95906	-6.246624
CST3	-0.012132	6.8328659	-0.151947	0.882507	0.95906	-6.246629
SLC6A20	0.0135107	6.9536189	0.151705	0.8826922	0.95918	-6.246668
ZNF782	0.0100334	6.8361807	0.1515159	0.8828372	0.95918	-6.246699
INVS	-0.009634	7.5183885	-0.151476	0.8828675	0.95918	-6.246705
ADPRHL1	-0.012079	6.9975904	-0.151466	0.8828756	0.95918	-6.246707
ACOT4	0.0112235	6.7484963	0.1513267	0.8829823	0.95922	-6.24673
HSDL1	0.0152436	7.5904686	0.1511692	0.883103	0.95928	-6.246755
ZNF605	-0.013119	7.2358936	-0.150944	0.8832759	0.95933	-6.246791
NEURL1	-0.010157	6.7547393	-0.150936	0.8832817	0.95933	-6.246792
DNAJA4	0.0131078	6.7616637	0.1507592	0.8834174	0.95937	-6.246821
FIS1	-0.016684	10.402084	-0.150697	0.8834654	0.95937	-6.246831
UBE2S	0.0107637	6.8721977	0.1506299	0.8835166	0.95937	-6.246842
RUFY2	-0.00969	6.8620137	-0.150391	0.8836998	0.95949	-6.24688
C20orf181	-0.011531	6.9626922	-0.15032	0.8837543	0.95949	-6.246891
ZNF467	-0.009717	6.7556432	-0.149771	0.8841756	0.95987	-6.246979
11-Sep	-0.013876	9.2939696	-0.149366	0.8844863	0.96007	-6.247044
PDXDC1	0.0125538	10.222344	0.1493621	0.8844889	0.96007	-6.247044
OR2Z1	-0.011012	6.8762588	-0.148802	0.8849183	0.96047	-6.247133
NBPF15	0.0166724	7.3155894	0.1484962	0.8851531	0.96056	-6.247182
PCLO	-0.012853	6.8069742	-0.148394	0.8852314	0.96056	-6.247198
CLTCL1	-0.009267	6.885857	-0.148374	0.8852466	0.96056	-6.247201
THBS4	0.0100351	6.8890483	0.1483415	0.8852718	0.96056	-6.247206

CYP2D6	0.0109817	6.9093604	0.1480328	0.8855086	0.96075	-6.247255
TMEM105	-0.010575	6.877465	-0.147848	0.8856508	0.96083	-6.247284
CRY1	-0.0095	6.7885924	-0.147613	0.885831	0.96089	-6.247321
FOXD1	0.0092941	6.7696799	0.1475846	0.8858525	0.96089	-6.247326
SPATS2L	0.0114587	7.0874577	0.1475183	0.8859034	0.96089	-6.247336
SLC2A1	-0.014712	10.032628	-0.147399	0.8859946	0.96092	-6.247355
OTUD6B	0.0161679	9.3385127	0.1472203	0.886132	0.96096	-6.247383
RHOB	0.0105526	6.7812627	0.147163	0.886176	0.96096	-6.247392
SLBP	-0.011819	9.9885686	-0.147093	0.8862295	0.96096	-6.247403
KPTN	0.0122483	7.3154837	0.1469475	0.8863413	0.96101	-6.247426
TTC25	-0.009571	6.8082817	-0.146844	0.8864204	0.96102	-6.247442
NUDC	0.0169751	12.770453	0.1464364	0.8867335	0.96122	-6.247506
GPX2	0.013738	6.8486387	0.1463847	0.8867732	0.96122	-6.247514
ZNF429	-0.009793	6.9891263	-0.146348	0.8868015	0.96122	-6.24752
MAP3K1	0.0193425	9.2743833	0.1461688	0.8869389	0.96128	-6.247548
KLF4	-0.009374	6.9065555	-0.146105	0.8869877	0.96128	-6.247557
DGKZ	0.0091619	6.8324321	0.1454161	0.8875166	0.96177	-6.247665
C3orf38	-0.012854	8.4236947	-0.145349	0.887568	0.96177	-6.247675
DDHD2	-0.012868	7.9059915	-0.145126	0.8877389	0.96188	-6.247709
MIR144	-0.010003	6.8271351	-0.144996	0.8878391	0.96192	-6.24773
DAPK3	-0.015668	7.0925525	-0.144734	0.8880401	0.96207	-6.24777
ZNF624	-0.009323	6.9310011	-0.144353	0.8883322	0.96231	-6.247829
C11orf45	-0.009047	6.7057654	-0.144143	0.8884938	0.96241	-6.247861
RPS3	0.0108846	14.325853	0.143969	0.8886273	0.96243	-6.247888
GRAP	-0.010577	8.1932642	-0.143918	0.8886662	0.96243	-6.247896
PARP6	0.0090972	7.3606412	0.1438644	0.8887076	0.96243	-6.247904
GPANK1	0.01291	7.094322	0.143566	0.8889367	0.96261	-6.24795
THEG	0.0109043	6.8558675	0.143282	0.8891548	0.96274	-6.247993
CREB1	0.0114414	8.8471209	0.143231	0.889194	0.96274	-6.248001
TP53TG1	-0.010142	7.3814454	-0.142976	0.88939	0.96286	-6.24804
HSP90AB2P	0.0088683	7.0639763	0.1428018	0.8895235	0.96286	-6.248066
ST6GALNAC	-0.011317	6.8075113	-0.142677	0.8896191	0.96286	-6.248085
MIMT1	-0.009213	6.8074482	-0.142651	0.8896392	0.96286	-6.248089
PLLP	0.0105987	7.0082105	0.1425448	0.8897208	0.96286	-6.248105
APOC1	0.0117169	6.938632	0.1425115	0.8897464	0.96286	-6.24811
LOXL3	-0.009805	6.8169615	-0.142495	0.8897588	0.96286	-6.248113
TMEM164	-0.009066	6.9234585	-0.142329	0.8898865	0.96292	-6.248138
MRPL20	0.0145421	10.909769	0.1422334	0.8899599	0.96293	-6.248153
BRWD1	-0.0088	7.5823764	-0.14213	0.8900394	0.96294	-6.248168
OTOF	-0.010778	6.9606914	-0.141971	0.8901617	0.96297	-6.248192
HAUS5	0.0106457	7.4440487	0.1419275	0.8901948	0.96297	-6.248199
ARHGAP27	-0.009518	6.8925715	-0.141478	0.89054	0.96319	-6.248267
BFAR	-0.017686	8.6995642	-0.141395	0.8906034	0.96319	-6.248279
SNORD88C	0.0087916	6.8590224	0.1413327	0.8906516	0.96319	-6.248289
LARS	0.011752	10.547311	0.1413168	0.8906638	0.96319	-6.248291

TSR2	-0.009654	10.040524	-0.141168	0.8907783	0.96324	-6.248314
SNORA17B	0.0093374	6.9915583	0.1410917	0.8908367	0.96324	-6.248325
ANKRD35	0.0131093	7.0262753	0.1409978	0.8909088	0.96324	-6.248339
PIGV	0.017601	8.0058317	0.1406972	0.8911397	0.96336	-6.248384
SH3PXD2B	0.0124331	6.8566157	0.1406787	0.8911539	0.96336	-6.248387
NAPG	0.01196	7.717297	0.140565	0.8912412	0.96336	-6.248404
MC1R	0.0123428	7.1742723	0.1404283	0.8913462	0.96336	-6.248425
DENND2C	-0.010646	7.0921446	-0.14037	0.891391	0.96336	-6.248433
MIR369	0.0142151	6.9237127	0.1402587	0.8914765	0.96336	-6.24845
ATRIP	0.0102124	8.3532378	0.140205	0.8915178	0.96336	-6.248458
PRSS12	-0.00944	6.8714405	-0.140172	0.8915433	0.96336	-6.248463
PRR22	0.0096816	6.8146898	0.1399981	0.8916767	0.96342	-6.248489
NCKAP5	-0.010384	6.9051586	-0.139919	0.8917372	0.96342	-6.248501
STRC	-0.008704	6.9023607	-0.1398	0.8918286	0.96345	-6.248519
NUB1	0.0120594	9.5065334	0.1396286	0.8919606	0.96348	-6.248544
CAPN6	-0.009092	7.0694246	-0.139593	0.8919876	0.96348	-6.248549
STK16	0.0114203	7.2752915	0.1395129	0.8920494	0.96348	-6.248561
MPO	0.0113396	6.8719699	0.1393735	0.8921565	0.96352	-6.248582
PCOTH	0.0100121	6.8619352	0.1390507	0.8924045	0.96371	-6.24863
ACVR2B	0.0089327	6.7051914	0.1389728	0.8924644	0.96371	-6.248642
GIMAP2	0.0094468	6.8202428	0.1388912	0.892527	0.96371	-6.248654
DNM1	0.0095906	6.775617	0.1387913	0.8926038	0.96372	-6.248668
HMGB2	-0.010649	10.67896	-0.138706	0.8926691	0.96372	-6.248681
SOCS3	-0.010582	7.0068997	-0.138508	0.8928213	0.96381	-6.24871
CAGE1	-0.010256	6.7964063	-0.138204	0.8930547	0.96382	-6.248755
LYPD1	0.0086753	7.0255225	0.1382025	0.8930562	0.96382	-6.248755
GBE1	0.0121197	9.0971984	0.138174	0.8930781	0.96382	-6.24876
THRA	0.0086676	6.9107042	0.1378564	0.8933222	0.96382	-6.248806
SNURF	-0.013551	8.6243556	-0.137851	0.893326	0.96382	-6.248807
ACVRL1	0.0088533	6.7799337	0.1378443	0.8933314	0.96382	-6.248808
PDE8B	-0.011228	6.9029246	-0.137786	0.8933764	0.96382	-6.248817
DUSP1	0.0106379	7.8486494	0.1376666	0.893468	0.96382	-6.248834
COL27A1	-0.009348	6.7403214	-0.13763	0.8934963	0.96382	-6.24884
HGH1	0.0090083	6.8713263	0.1376172	0.893506	0.96382	-6.248842
HYDIN	0.0081804	6.9615744	0.1375568	0.8935524	0.96382	-6.24885
FLJ16779	-0.011032	7.0253523	-0.136881	0.8940718	0.96431	-6.248949
PLSCR3	-0.009625	11.399107	-0.136749	0.894173	0.96431	-6.248969
SPCS3	-0.00915	8.7836631	-0.136536	0.8943369	0.96431	-6.249
AGAP1	-0.011122	6.8277455	-0.136519	0.8943499	0.96431	-6.249002
TRIM15	0.0119888	6.9041121	0.1364411	0.8944098	0.96431	-6.249013
RSPH3	0.0102316	7.0967826	0.1364408	0.8944101	0.96431	-6.249013
RNF123	0.0158639	8.7526481	0.1362917	0.8945246	0.96435	-6.249035
KATNAL2	-0.011745	7.1420896	-0.13619	0.894603	0.96435	-6.24905
PRKCD	0.0095583	8.6803771	0.1361408	0.8946407	0.96435	-6.249057
RFWD3	-0.01478	9.8380285	-0.135791	0.8949093	0.96455	-6.249108

SPRED3	-0.008853	6.8938054	-0.135722	0.8949627	0.96455	-6.249118
RPL23AP82	0.0081091	7.1559471	0.1354885	0.895142	0.9646	-6.249152
ZNF182	-0.010037	7.3673479	-0.135336	0.895259	0.9646	-6.249174
PITX1	-0.010094	9.7252291	-0.135284	0.8952995	0.9646	-6.249181
TSR1	0.012225	8.1622846	0.1352239	0.8953454	0.9646	-6.24919
ZDHHC17	0.0131337	7.9616782	0.1351954	0.8953673	0.9646	-6.249194
CHRNA3	-0.008932	6.8285214	-0.135146	0.8954051	0.9646	-6.249201
ANGEL2	-0.012546	9.5582958	-0.134777	0.8956889	0.96474	-6.249254
MORN4	-0.011025	7.1637112	-0.134754	0.8957065	0.96474	-6.249257
CDCP2	0.0087706	6.7728369	0.1347215	0.8957316	0.96474	-6.249262
ATG16L1	-0.012134	8.9664471	-0.134161	0.8961629	0.96513	-6.249343
PLA2G4D	-0.010435	6.8438564	-0.133454	0.8967064	0.96565	-6.249443
SNORA55	-0.009356	6.9207963	-0.133318	0.8968104	0.96569	-6.249463
BRMS1	-0.008632	9.4845007	-0.13318	0.8969172	0.96573	-6.249482
KIAA1211	0.0090622	6.8576344	0.1330766	0.8969964	0.96575	-6.249497
HIPK1	0.0084339	6.8226703	0.1329811	0.8970698	0.96575	-6.249511
FBXW8	-0.009501	6.9370246	-0.132801	0.897208	0.96583	-6.249536
ADCY7	0.012467	7.3126893	0.1326621	0.8973151	0.96588	-6.249556
NLRP12	-0.009535	6.9342618	-0.132392	0.8975231	0.96603	-6.249594
ADGRE4P	0.0107627	6.7929111	0.1317795	0.8979939	0.96646	-6.24968
THSD7B	0.0118106	6.8209015	0.1316449	0.8980974	0.96649	-6.249699
LOXHD1	0.0086337	7.0916076	0.1315728	0.8981529	0.96649	-6.249709
ZCCHC10	0.0093611	6.9120712	0.1313881	0.8982949	0.96657	-6.249735
SOHLH2	0.0089132	6.8647456	0.1309581	0.8986257	0.96686	-6.249795
SCG5	-0.011156	6.8841537	-0.130603	0.8988986	0.96708	-6.249845
EMB	-0.013895	6.9732006	-0.130197	0.8992111	0.96735	-6.249901
AXIN2	-0.012423	6.919362	-0.130017	0.8993496	0.9674	-6.249926
SLC8A3	0.0093511	6.9803169	0.1299639	0.8993905	0.9674	-6.249934
C1QL1	0.0080746	6.8269113	0.1298773	0.8994571	0.9674	-6.249946
OR5M9	-0.008403	6.8273224	-0.129616	0.8996578	0.9674	-6.249982
SEL1L	-0.011316	7.0979627	-0.129568	0.8996953	0.9674	-6.249989
ITPKC	0.0107449	6.9167623	0.1295584	0.8997024	0.9674	-6.24999
GNG11	-0.010256	6.8446204	-0.129535	0.8997207	0.9674	-6.249993
WNK4	0.0078708	6.720314	0.1289419	0.9001768	0.96779	-6.250075
ASH1L	-0.009533	7.0741861	-0.128795	0.9002897	0.96779	-6.250095
OR10H4	0.0091297	6.8808108	0.1287513	0.9003235	0.96779	-6.250101
SUV39H2	0.0115653	7.1269538	0.1287076	0.9003571	0.96779	-6.250107
PTGER2	0.009255	6.7028097	0.1286076	0.900434	0.96781	-6.250121
COL9A3	-0.007936	6.813785	-0.128484	0.900529	0.96784	-6.250138
PTPRR	-0.010876	6.9858448	-0.128122	0.9008076	0.96806	-6.250187
ARL4A	0.0076406	6.9389804	0.1280422	0.9008691	0.96806	-6.250198
UQCRFS1	-0.009014	12.598802	-0.127776	0.9010736	0.96816	-6.250235
LRG1	-0.013573	7.1271868	-0.127642	0.9011771	0.96816	-6.250253
MPZL2	0.0088074	6.9298502	0.127618	0.9011956	0.96816	-6.250256
H1FNT	0.0077492	6.8605603	0.127499	0.9012871	0.96816	-6.250272

RGS14	0.0103271	7.0918737	0.1274944	0.9012907	0.96816	-6.250273
FMO5	0.0079413	6.7998021	0.1270781	0.9016111	0.96834	-6.250329
ARMCX3	-0.009072	7.2014197	-0.126675	0.9019211	0.96834	-6.250384
SERPINA11	0.008136	7.0025391	0.126586	0.9019898	0.96834	-6.250396
PRO0628	0.0128956	7.0927174	0.1265661	0.9020051	0.96834	-6.250399
BIN1	-0.008671	6.9919287	-0.126552	0.9020159	0.96834	-6.250401
SLC35D2	-0.009129	6.883405	-0.126514	0.9020451	0.96834	-6.250406
KISS1R	0.0075804	6.8352243	0.1265073	0.9020504	0.96834	-6.250407
WDR5B	-0.009706	6.9529338	-0.126467	0.9020813	0.96834	-6.250412
ME2	0.0115302	10.549388	0.1262678	0.9022347	0.96834	-6.250439
CHMP3	0.0103089	8.4366705	0.1262302	0.9022637	0.96834	-6.250444
OR4M2	0.0079713	6.9309136	0.1262295	0.9022642	0.96834	-6.250444
ZHX2	0.0093115	9.1325235	0.1262204	0.9022712	0.96834	-6.250445
ANAPC13	0.0114296	11.474181	0.1260455	0.9024058	0.96834	-6.250469
MAPKAPK5	-0.008307	9.0455164	-0.12592	0.9025028	0.96834	-6.250486
HIST1H2BH	0.0188871	7.6725467	0.1258448	0.9025603	0.96834	-6.250496
KLLN	0.0077776	7.1420581	0.12582	0.9025794	0.96834	-6.250499
SPATA6	0.0083395	6.7204466	0.1257673	0.90262	0.96834	-6.250506
DNAJA1	0.0139766	12.509068	0.1257236	0.9026536	0.96834	-6.250512
ZBTB16	-0.007811	6.8634467	-0.125466	0.9028517	0.96842	-6.250547
GPAT2	-0.010834	7.4982357	-0.125456	0.9028599	0.96842	-6.250548
AADAT	0.008499	6.8219256	0.1253047	0.9029761	0.96843	-6.250568
CDKN2AIP	0.0118612	9.105191	0.1250203	0.9031951	0.96843	-6.250606
MANBA	-0.012418	8.8569183	-0.125012	0.9032014	0.96843	-6.250607
LINC01816	-0.00966	6.8382487	-0.124889	0.9032959	0.96843	-6.250624
VSX2	-0.011089	7.0585297	-0.124823	0.9033472	0.96843	-6.250633
LNPEP	0.009881	7.7000281	0.1248152	0.9033529	0.96843	-6.250634
DAD1	-0.010679	12.062127	-0.124717	0.9034284	0.96843	-6.250647
EFNB1	0.0099382	6.8948186	0.1247069	0.9034363	0.96843	-6.250648
RGP1	0.0094022	6.9200895	0.1246602	0.9034722	0.96843	-6.250654
GAPVD1	0.0099503	9.4177754	0.1243329	0.9037243	0.96859	-6.250698
CDC6	-0.00859	7.3846666	-0.124166	0.9038531	0.96859	-6.25072
SEC24A	-0.01491	7.8594053	-0.124015	0.9039688	0.96859	-6.25074
TNFRSF21	0.0112337	8.973137	0.1240009	0.9039799	0.96859	-6.250742
NUDT1	0.0083275	8.8185489	0.1239122	0.9040482	0.96859	-6.250753
VCAM1	0.009	7.7258632	0.1238727	0.9040786	0.96859	-6.250759
KCNJ13	-0.010212	6.8898789	-0.123822	0.9041176	0.96859	-6.250765
SMC5	-0.009801	6.8629296	-0.123622	0.9042714	0.96859	-6.250792
SLC6A6	0.014336	7.1574028	0.1235369	0.9043371	0.96859	-6.250803
RELL2	0.010684	7.4608673	0.1235141	0.9043548	0.96859	-6.250806
MTMR14	0.0075394	8.6930516	0.1234689	0.9043895	0.96859	-6.250812
PAPOLG	-0.008785	7.0233191	-0.123398	0.904444	0.96859	-6.250821
ATP6V0D1	0.0108416	8.9208557	0.1232199	0.9045813	0.96859	-6.250845
FIGNL2	0.0081639	7.014979	0.1231653	0.9046233	0.96859	-6.250852
CPTP	0.0096498	7.705067	0.1231047	0.90467	0.96859	-6.25086

SLC1A7	0.0083705	6.9016415	0.1230915	0.9046801	0.96859	-6.250862
POLH	0.0084961	7.1530939	0.1227338	0.9049556	0.96881	-6.250908
CHRDL2	-0.008758	6.9824103	-0.122492	0.905142	0.96894	-6.25094
MLKL	0.0105828	6.8642838	0.1221476	0.905407	0.96901	-6.250985
KIF26B	0.0076976	6.9556831	0.1221139	0.905433	0.96901	-6.250989
C8orf82	-0.014008	7.7168974	-0.122091	0.9054504	0.96901	-6.250992
FOSL2	0.0083625	7.0541768	0.1219816	0.9055349	0.96901	-6.251007
LRP2BP	0.0110391	6.8777045	0.121975	0.90554	0.96901	-6.251008
METRN	-0.009589	6.8113058	-0.121805	0.9056709	0.96908	-6.25103
DUSP15	-0.007579	7.1974251	-0.121316	0.9060473	0.96919	-6.251093
SLA	-0.007843	6.9252833	-0.121289	0.9060681	0.96919	-6.251097
FAM174A	-0.007887	7.4245211	-0.1212	0.9061369	0.96919	-6.251108
NPIPB15	0.0122283	8.5173135	0.1211908	0.906144	0.96919	-6.251109
RIMKLB	0.0074025	6.9654437	0.1211545	0.906172	0.96919	-6.251114
MTX2	0.0096351	9.9675003	0.1211156	0.9062019	0.96919	-6.251119
FAM114A2	-0.009952	7.1868964	-0.121064	0.9062413	0.96919	-6.251126
ABHD14B	-0.00957	7.3862409	-0.120872	0.9063897	0.96923	-6.25115
TCTEX1D1	-0.008843	6.7724532	-0.12085	0.9064064	0.96923	-6.251153
MAD2L2	0.0104913	11.35155	0.1206552	0.9065565	0.96932	-6.251178
SYT7	-0.009766	7.1538659	-0.120407	0.906748	0.96938	-6.25121
DPEP2	-0.00888	7.0072939	-0.120406	0.9067486	0.96938	-6.25121
OR9G1	-0.008406	6.8719139	-0.120311	0.9068218	0.96939	-6.251223
LOC1001309	0.0080116	6.8767806	0.1201445	0.90695	0.96941	-6.251244
FAM210A	0.0078369	8.4667656	0.1201165	0.9069715	0.96941	-6.251248
GCC2	0.0105904	6.9248224	0.1197896	0.9072234	0.96949	-6.251289
DOCK5	-0.007913	6.7370924	-0.119707	0.9072871	0.96949	-6.2513
PDE7A	-0.012197	8.0556031	-0.119692	0.9072988	0.96949	-6.251302
ACTN1	0.0103057	6.6833965	0.1196695	0.9073159	0.96949	-6.251305
OTX1	0.0105108	6.7898041	0.1195213	0.9074301	0.96949	-6.251324
ZNF394	0.0105317	8.6178576	0.1194968	0.9074489	0.96949	-6.251327
LPCAT1	-0.01225	8.5570171	-0.119277	0.9076186	0.9696	-6.251355
ZBTB49	0.0089476	7.2244989	0.119046	0.9077963	0.96964	-6.251384
ALDH7A1	-0.007773	6.8925095	-0.11898	0.9078474	0.96964	-6.251393
ZNF468	0.0098154	7.5417904	0.1185627	0.9081687	0.96964	-6.251445
HIST1H4J	0.0114116	7.5851415	0.1185276	0.9081957	0.96964	-6.25145
TCHP	0.0071922	7.32313	0.1185211	0.9082007	0.96964	-6.251451
HOMER1	0.008908	6.7469825	0.1184929	0.9082224	0.96964	-6.251454
PRPS1L1	-0.008881	7.0173286	-0.118465	0.9082441	0.96964	-6.251458
OCRL	0.0097849	6.9548194	0.1183761	0.9083124	0.96964	-6.251469
AQP6	0.014243	6.854667	0.1183299	0.908348	0.96964	-6.251475
CA10	0.0089494	6.8071223	0.1183047	0.9083674	0.96964	-6.251478
LOC1001284	-0.008317	6.8152673	-0.118276	0.9083894	0.96964	-6.251482
ZNF155	0.0083834	6.9218432	0.117891	0.9086863	0.96978	-6.25153
EIF3I	-0.014051	12.040088	-0.117862	0.9087087	0.96978	-6.251534
RP9P	0.0075831	6.8071524	0.1178575	0.9087121	0.96978	-6.251534

MEG9	-0.009842	6.9452358	-0.117623	0.9088931	0.9699	-6.251564
POM121C	0.0134783	11.138472	0.1174825	0.909001	0.96994	-6.251581
COL24A1	-0.012049	7.9293178	-0.117364	0.9090925	0.96997	-6.251596
OR4D10	-0.008394	6.9508265	-0.117201	0.9092182	0.96999	-6.251617
KCNH2	-0.008096	7.0372367	-0.117161	0.9092487	0.96999	-6.251622
CAMK1	-0.010889	6.8183175	-0.117023	0.9093549	0.96999	-6.251639
MED16	0.0075431	9.1152957	0.1169982	0.9093743	0.96999	-6.251642
STAG1	0.0132039	8.0491608	0.1168947	0.9094541	0.97	-6.251655
WDTC1	-0.009146	6.9056517	-0.1168	0.9095274	0.97001	-6.251667
CISD3	-0.009485	7.1324393	-0.1167	0.909604	0.97002	-6.251679
PDIA6	0.01407	10.147557	0.1165485	0.9097209	0.97005	-6.251698
SEC24D	-0.009765	8.0996802	-0.116266	0.9099388	0.97005	-6.251733
ZC3H6	0.0077019	6.8168883	0.1161659	0.9100158	0.97005	-6.251746
ST6GAL1	0.0081154	9.3823357	0.1160645	0.9100939	0.97005	-6.251758
TESMIN	-0.007225	6.8141563	-0.116	0.9101434	0.97005	-6.251766
HERC5	-0.007519	6.7801432	-0.115964	0.910171	0.97005	-6.251771
VWA1	0.0084282	6.8921327	0.1158462	0.9102622	0.97005	-6.251785
FAM46C	0.0092289	6.8890972	0.1158423	0.9102652	0.97005	-6.251786
HERC6	0.0075767	6.7881131	0.1157122	0.9103655	0.97005	-6.251802
MRPS25	0.0134019	8.9449764	0.1154841	0.9105413	0.97005	-6.25183
STOX2	-0.007404	6.8467984	-0.115347	0.9106466	0.97005	-6.251847
PARG	0.008423	7.3107411	0.1152606	0.9107136	0.97005	-6.251857
CEP19	0.0085868	8.1621453	0.1152604	0.9107137	0.97005	-6.251857
ISCA1P1	-0.007667	9.205616	-0.115238	0.9107309	0.97005	-6.25186
HYKK	-0.00806	7.2806145	-0.115158	0.9107927	0.97005	-6.25187
SNORD7	-0.007533	6.9066192	-0.115045	0.9108796	0.97005	-6.251884
XYLB	-0.007724	6.7915011	-0.114983	0.9109275	0.97005	-6.251892
SLC39A8	-0.009346	9.6987778	-0.1149	0.9109916	0.97005	-6.251902
TUBGCP4	-0.010189	8.9978683	-0.114839	0.9110385	0.97005	-6.251909
PCK1	0.010219	6.893199	0.1146541	0.9111811	0.97005	-6.251932
RD3	-0.007541	6.9927418	-0.11464	0.911192	0.97005	-6.251934
PTGR2	-0.010365	7.7560083	-0.11464	0.911192	0.97005	-6.251934
ESRRAP2	0.0085641	9.6265614	0.1144268	0.9113563	0.97005	-6.25196
LTBR	0.0071334	6.7762364	0.1143489	0.9114164	0.97005	-6.251969
RHOV	-0.007879	7.2461118	-0.114317	0.9114413	0.97005	-6.251973
LOC400940	-0.007523	6.7990016	-0.114207	0.9115262	0.97005	-6.251987
SLC38A7	0.0101864	6.9942638	0.1141559	0.9115652	0.97005	-6.251993
PIK3R3	-0.008747	7.0218519	-0.114093	0.9116139	0.97005	-6.252
MYO1B	0.0078575	6.9147128	0.1140479	0.9116484	0.97005	-6.252006
PRDM7	0.0104558	6.8768843	0.1139311	0.9117385	0.97005	-6.25202
MAGEA10	0.0072918	6.8026358	0.1138659	0.9117888	0.97005	-6.252028
SNHG4	-0.01067	8.8022246	-0.113853	0.9117985	0.97005	-6.25203
HSPA14	0.0099027	9.721732	0.1138212	0.9118232	0.97005	-6.252033
SLC2A9	-0.007556	6.832344	-0.113492	0.9120769	0.97025	-6.252073
MIR302C	0.00884	6.9672822	0.1128126	0.9126009	0.97052	-6.252155

CRYBA2	0.0074877	6.790706	0.1127793	0.9126266	0.97052	-6.252159
RPL24	-0.007954	14.289965	-0.11274	0.912657	0.97052	-6.252164
PARS2	-0.007677	7.5734596	-0.11273	0.9126644	0.97052	-6.252165
KRT19	0.0080414	6.8778989	0.1127264	0.9126674	0.97052	-6.252166
H2AFB1	0.007451	6.7617233	0.1125949	0.9127687	0.97056	-6.252182
NF2	0.0089933	7.1320473	0.1121221	0.9131334	0.97087	-6.252238
SS18L2	0.0138699	12.429576	0.111961	0.9132576	0.97088	-6.252258
CCDC125	-0.008792	8.320642	-0.111924	0.9132864	0.97088	-6.252262
PLXND1	-0.01075	7.0078361	-0.111823	0.9133641	0.97088	-6.252274
HIST1H2BC	-0.009171	7.0935393	-0.111775	0.913401	0.97088	-6.25228
VASN	-0.00656	6.7284845	-0.111353	0.9137266	0.97103	-6.25233
USP19	-0.009801	6.8973543	-0.111336	0.9137397	0.97103	-6.252332
CCNG2	0.0089694	7.5289289	0.1111845	0.9138565	0.97103	-6.25235
C10orf91	-0.007496	6.7630144	-0.111183	0.9138579	0.97103	-6.25235
CDY1B	0.0090316	6.9168753	0.1109859	0.9140096	0.97103	-6.252374
TIAM1	0.0072698	7.2144234	0.1108823	0.9140895	0.97103	-6.252386
RANBP3L	-0.012168	6.9024256	-0.110815	0.9141412	0.97103	-6.252394
RBMY1J	-0.00877	6.8967848	-0.110797	0.9141552	0.97103	-6.252396
ACTC1	-0.009251	6.9132944	-0.110614	0.9142967	0.97103	-6.252418
MIR1289-1	0.0070959	7.0278438	0.1105388	0.9143544	0.97103	-6.252426
VPS8	-0.008179	7.5900775	-0.110431	0.9144376	0.97103	-6.252439
PPIF	0.0088949	8.0199185	0.1104299	0.9144385	0.97103	-6.252439
ATF2	0.006818	7.5636704	0.1103999	0.9144616	0.97103	-6.252443
SOCS2	0.0083912	6.8909218	0.1103818	0.9144756	0.97103	-6.252445
SRP14	0.0078276	11.599309	0.1102396	0.9145852	0.97107	-6.252462
CCDC33	0.0090418	6.9810794	0.1099849	0.9147817	0.97121	-6.252492
FERD3L	-0.010317	6.9476741	-0.109775	0.9149439	0.97131	-6.252516
6-Mar	-0.008704	8.0238436	-0.109672	0.9150234	0.97133	-6.252528
FAM96B	-0.007391	10.477939	-0.109157	0.9154203	0.97168	-6.252588
NPAS4	-0.009675	6.8658086	-0.10894	0.9155881	0.97178	-6.252614
ZFPM2	0.0076812	6.8051471	0.1087691	0.9157196	0.97185	-6.252634
PLEKHA7	-0.00825	6.8044573	-0.10812	0.9162204	0.97203	-6.252709
FOXC2	0.0085362	7.280761	0.1080793	0.9162518	0.97203	-6.252713
PRR5L	-0.008432	6.7135324	-0.107967	0.9163384	0.97203	-6.252726
ALG3	0.0083612	9.065099	0.1077488	0.9165068	0.97203	-6.252751
B3GALT6	0.0160484	8.7692476	0.1077462	0.9165088	0.97203	-6.252752
GMFB	0.0160315	10.902975	0.107706	0.9165398	0.97203	-6.252756
FOXD4L4	-0.00854	7.0341352	-0.107671	0.9165671	0.97203	-6.25276
GPR153	0.0091476	6.9763044	0.1076359	0.9165939	0.97203	-6.252764
LCK	-0.006772	6.9501496	-0.107613	0.9166117	0.97203	-6.252767
BRSK2	-0.008776	6.9751399	-0.107579	0.9166381	0.97203	-6.252771
PTGER1	0.0081207	6.7657544	0.1074589	0.9167305	0.97203	-6.252785
NECTIN1	-0.00681	6.9119268	-0.107432	0.916751	0.97203	-6.252788
ACAD8	-0.006674	8.1722136	-0.107428	0.9167545	0.97203	-6.252788
PAAF1	-0.008717	9.5473007	-0.107243	0.9168967	0.97205	-6.252809

BRSK1	-0.007577	7.093231	-0.107238	0.9169006	0.97205	-6.25281
CREB3L3	0.0066631	6.779858	0.1071092	0.9170003	0.97206	-6.252825
CMTM7	-0.006471	6.9363351	-0.106901	0.917161	0.97206	-6.252849
PAM	0.0112131	8.9132314	0.1067842	0.9172511	0.97206	-6.252862
RGL1	-0.009764	7.4168538	-0.106557	0.917426	0.97206	-6.252888
PPP2R1B	-0.006504	7.4238553	-0.106482	0.9174842	0.97206	-6.252896
PLS3	0.0065571	6.7652598	0.1063889	0.9175561	0.97206	-6.252907
RTL8B	0.0074822	6.7917177	0.1063636	0.9175756	0.97206	-6.25291
LYPD5	-0.007043	6.8188748	-0.106315	0.917613	0.97206	-6.252915
LTBP3	0.011184	7.0587173	0.1062699	0.917648	0.97206	-6.25292
NUDT12	-0.006506	6.7953676	-0.106212	0.9176928	0.97206	-6.252927
COG8	-0.007445	7.3652445	-0.106123	0.917761	0.97206	-6.252937
DAZAP1	-0.007333	8.3920886	-0.10604	0.9178252	0.97206	-6.252946
RSAD2	-0.00662	6.8250416	-0.105869	0.9179574	0.97206	-6.252966
TSKU	0.0071415	6.8240695	0.105796	0.9180137	0.97206	-6.252974
LAMP2	-0.007207	8.7697183	-0.105695	0.9180914	0.97206	-6.252985
XAF1	-0.009232	7.5152887	-0.105592	0.9181713	0.97206	-6.252997
OR1J1	-0.010539	6.8626775	-0.105556	0.9181988	0.97206	-6.253001
KIF26A	-0.006589	6.8702884	-0.105406	0.9183146	0.97206	-6.253018
MMP16	-0.006741	6.7940113	-0.105392	0.9183252	0.97206	-6.25302
WASF1	-0.007623	7.041081	-0.105353	0.9183559	0.97206	-6.253024
BAIAP2L1	0.0066215	6.6782803	0.1053454	0.9183614	0.97206	-6.253025
TIAL1	-0.006637	9.1999237	-0.105327	0.9183759	0.97206	-6.253027
NMD3	0.0115585	9.7313635	0.1050577	0.9185835	0.97217	-6.253057
FRAS1	0.0064064	6.8556666	0.1049001	0.9187051	0.97217	-6.253075
ATP8B4	-0.009022	6.8988339	-0.104869	0.918729	0.97217	-6.253078
ORAI3	-0.00707	6.8492346	-0.104841	0.9187507	0.97217	-6.253081
ZNF410	-0.010666	8.9047741	-0.104709	0.9188525	0.9722	-6.253096
FCRL5	-0.007025	6.9020293	-0.104628	0.9189153	0.9722	-6.253105
THAP2	-0.007267	6.876066	-0.104553	0.9189728	0.9722	-6.253114
RXRA	-0.007518	6.7701399	-0.104337	0.9191396	0.97225	-6.253138
MSR1	-0.006632	6.8467209	-0.104317	0.9191552	0.97225	-6.25314
GAB2	0.006658	6.9777112	0.1041655	0.9192722	0.9723	-6.253157
FANCD2	-0.006738	7.7906999	-0.103858	0.9195097	0.97246	-6.253191
DTL	-0.008026	7.7119009	-0.103769	0.9195785	0.97246	-6.253201
FZD6	0.0067834	6.7396547	0.1037112	0.9196228	0.97246	-6.253207
DCAF1	-0.006924	7.7695412	-0.103273	0.9199608	0.97265	-6.253256
CENPK	0.0079107	8.8317302	0.1032556	0.9199745	0.97265	-6.253258
MAGEA11	0.0067576	6.946083	0.1032166	0.9200046	0.97265	-6.253262
HOXA13	-0.006575	6.8816591	-0.103053	0.9201309	0.97272	-6.25328
MAEA	-0.007877	8.4411167	-0.102364	0.9206627	0.9732	-6.253355
SNORA37	0.0079505	6.964032	0.102159	0.9208212	0.9732	-6.253378
STS	0.0114414	7.1365714	0.1021332	0.920841	0.9732	-6.253381
PIGY	-0.013204	9.8537745	-0.102114	0.9208562	0.9732	-6.253383
GJA3	0.0079318	6.7990452	0.1017801	0.9211136	0.9734	-6.253419

KCMF1	0.0072292	7.0224173	0.1015912	0.9212595	0.97349	-6.25344
DOCK11	0.0108146	9.2009795	0.1012792	0.9215004	0.97364	-6.253473
OCEL1	0.0114906	9.1577297	0.1012314	0.9215374	0.97364	-6.253478
IFI44L	0.007038	7.0055938	0.1009656	0.9217426	0.97375	-6.253507
COMMD9	-0.008942	9.4702105	-0.100921	0.9217773	0.97375	-6.253512
SULT1A3	-0.007102	7.3683025	-0.100428	0.9221581	0.97401	-6.253565
CXorf21	0.0064562	6.9280877	0.100261	0.9222867	0.97401	-6.253583
ADCY6	-0.006268	6.8761212	-0.100218	0.9223202	0.97401	-6.253587
HVCN1	-0.006303	7.6804006	-0.100198	0.9223352	0.97401	-6.25359
CA11	-0.00891	7.3947449	-0.10017	0.922357	0.97401	-6.253593
GUSBP5	-0.007191	6.8622064	-0.099913	0.9225556	0.97411	-6.25362
AP1G2	0.0111694	8.271993	0.0998721	0.922587	0.97411	-6.253624
SP7	-0.006157	6.8052683	-0.099685	0.9227313	0.97412	-6.253644
NR3C1	-0.006825	7.1511765	-0.099685	0.9227318	0.97412	-6.253644
SATB2	-0.007682	6.928583	-0.099547	0.9228381	0.97417	-6.253659
AGO3	-0.006503	7.3658526	-0.099346	0.922993	0.97423	-6.25368
MAPK15	-0.008453	6.9473219	-0.099158	0.9231385	0.97423	-6.2537
SHPRH	-0.00664	7.3085581	-0.09911	0.9231756	0.97423	-6.253705
SGCB	0.0072098	7.1273165	0.0990846	0.9231952	0.97423	-6.253708
NIPAL2	-0.006012	6.8544952	-0.099035	0.9232332	0.97423	-6.253713
ARHGAP4	-0.007671	9.1837279	-0.098815	0.9234033	0.97432	-6.253736
PDGFA	-0.006514	6.7834424	-0.098751	0.9234528	0.97432	-6.253743
ABCG1	-0.005934	7.0736529	-0.098638	0.92354	0.97434	-6.253755
GGT1	0.0063615	7.0762539	0.0984877	0.9236562	0.97435	-6.253771
ZNF518A	0.0063252	7.884124	0.0983854	0.9237353	0.97435	-6.253782
ERVMER61-	-0.006371	6.7991358	-0.098366	0.9237502	0.97435	-6.253784
INSL5	0.0067906	6.9353003	0.0981885	0.9238874	0.97441	-6.253802
CEP76	0.0108718	7.009094	0.0981241	0.9239371	0.97441	-6.253809
VILL	-0.005951	6.714405	-0.098026	0.9240126	0.97442	-6.253819
SNORA11C	0.0087925	7.0362877	0.0977987	0.9241884	0.9745	-6.253843
OXCT1	0.0098144	8.780283	0.0976737	0.924285	0.9745	-6.253856
MS4A7	0.0071647	7.3590308	0.0976661	0.9242909	0.9745	-6.253857
ALDOB	-0.007155	6.8910259	-0.097121	0.9247122	0.97488	-6.253914
FZD8	-0.007126	6.8626738	-0.096869	0.9249069	0.97501	-6.25394
RASSF9	-0.005952	6.8407181	-0.096711	0.9250284	0.97507	-6.253956
IPP	-0.007494	7.4823489	-0.096324	0.9253276	0.97525	-6.253996
RPN1	0.0065096	11.943011	0.0963205	0.9253303	0.97525	-6.253996
BDH1	-0.006735	7.4975373	-0.096178	0.9254407	0.97529	-6.254011
DVL1	0.0086941	7.1595366	0.0960357	0.9255503	0.97532	-6.254026
USP45	-0.007114	7.2436067	-0.095907	0.92565	0.97532	-6.254039
ZNF408	0.0072966	7.9958569	0.0958775	0.9256726	0.97532	-6.254042
SELENBP1	-0.007073	6.9308697	-0.095528	0.9259427	0.97554	-6.254078
SLC39A13	0.007874	7.0930412	0.0951337	0.9262472	0.97579	-6.254118
JAG1	-0.007574	6.8837819	-0.094949	0.9263901	0.97587	-6.254136
REXO1	-0.006548	8.1386381	-0.094735	0.9265554	0.97589	-6.254158

SLAMF9	0.0068483	6.9178004	0.0946599	0.9266134	0.97589	-6.254166
RPL19	0.0116016	14.232146	0.0946287	0.9266375	0.97589	-6.254169
LOC729860	-0.007244	6.8461535	-0.094578	0.9266767	0.97589	-6.254174
MAP3K10	-0.009039	7.3203174	-0.094458	0.9267692	0.97592	-6.254186
SPRY1	0.0063005	6.8663229	0.0942839	0.9269039	0.97599	-6.254204
FAM219A	-0.006791	7.1761101	-0.094116	0.9270333	0.97602	-6.25422
ADPRHL2	-0.007297	9.4892653	-0.093991	0.9271302	0.97602	-6.254233
FBXO21	0.0083111	9.8161266	0.0939783	0.9271401	0.97602	-6.254234
ZUFSP	-0.006718	8.4509521	-0.093502	0.9275083	0.97634	-6.254282
CHMP2A	0.0061775	8.6404272	0.0932863	0.9276748	0.97645	-6.254304
MYO1F	-0.007697	6.7692371	-0.093095	0.9278228	0.97651	-6.254323
ZDHHC20	-0.00758	6.9553884	-0.092879	0.9279894	0.97651	-6.254344
ANAPC11	-0.006139	8.3806251	-0.092877	0.9279908	0.97651	-6.254344
IFT88	0.0059993	7.0647318	0.0928639	0.9280013	0.97651	-6.254345
MGAT4A	0.0098608	7.044099	0.0926999	0.9281281	0.97651	-6.254362
RBM5	0.0086	9.883839	0.0926611	0.928158	0.97651	-6.254366
TCN2	-0.007709	6.990816	-0.092609	0.9281985	0.97651	-6.254371
PPP1R14C	-0.006235	6.7844761	-0.092416	0.9283474	0.97659	-6.25439
CDK14	0.0070533	8.8542688	0.0922005	0.928514	0.97665	-6.254411
CACNB4	-0.005579	6.919032	-0.092166	0.9285409	0.97665	-6.254414
RAB3IP	0.0064447	9.0314492	0.0920844	0.9286038	0.97665	-6.254422
TVP23C	0.0096901	7.9757363	0.0919586	0.928701	0.97665	-6.254435
DNAJB9	-0.008316	8.6217097	-0.091829	0.9288012	0.97665	-6.254448
ZNF449	-0.00575	6.812702	-0.091827	0.9288026	0.97665	-6.254448
PLGLB2	0.0060561	6.9323644	0.0916042	0.9289749	0.97676	-6.25447
ELOVL6	0.0102991	9.6723344	0.0912995	0.9292104	0.9768	-6.254499
POTEG	-0.005484	7.1191428	-0.091285	0.9292216	0.9768	-6.254501
PVR	0.005523	7.1602821	0.0912401	0.9292564	0.9768	-6.254505
ZNF610	0.0064979	6.7147451	0.0912039	0.9292843	0.9768	-6.254509
CLEC4E	-0.006733	7.0213724	-0.091079	0.9293809	0.97683	-6.254521
LILRB4	0.0057771	6.8105485	0.0907629	0.9296252	0.97686	-6.254551
PDE4DIP	-0.005963	6.8379928	-0.090644	0.9297173	0.97686	-6.254563
CHP1	0.009065	9.580178	0.0906417	0.9297189	0.97686	-6.254563
SSBP1	-0.010056	11.958778	-0.090502	0.9298271	0.97686	-6.254577
RPL23AP74	-0.006204	13.888683	-0.09047	0.9298513	0.97686	-6.25458
PRRC1	-0.007604	9.2644911	-0.090418	0.9298918	0.97686	-6.254585
RRAS	-0.007646	7.7914259	-0.090341	0.9299516	0.97686	-6.254592
CUZD1	-0.006796	6.6832505	-0.090274	0.9300031	0.97686	-6.254599
LOC729722	0.0060355	6.7860716	0.0901724	0.9300817	0.97686	-6.254609
PSMB5	-0.006978	11.917362	-0.090092	0.9301438	0.97686	-6.254616
RHOBTB3	0.0060248	6.7447507	0.0899942	0.9302194	0.97686	-6.254626
CYB561D2	-0.007555	8.2184402	-0.089984	0.9302275	0.97686	-6.254627
SNAPC3	-0.009316	8.8453249	-0.089771	0.9303917	0.97686	-6.254647
BRICD5	0.0082745	7.0256266	0.0895352	0.9305743	0.97686	-6.25467
SGPP2	0.0106102	6.9151411	0.0894735	0.930622	0.97686	-6.254676

SPIN4	0.0110252	8.0921474	0.0894575	0.9306344	0.97686	-6.254677
LRRC3B	0.0059065	6.7852059	0.089436	0.930651	0.97686	-6.254679
CARNMT1	-0.00917	7.8165286	-0.089406	0.9306744	0.97686	-6.254682
SORCS2	0.0054967	6.7320015	0.0893071	0.9307507	0.97686	-6.254691
XPO4	0.0066405	8.4614637	0.0892675	0.9307813	0.97686	-6.254695
URB1-AS1	0.0072558	7.2555322	0.0892326	0.9308082	0.97686	-6.254699
SPATS2	-0.005643	8.3669128	-0.089045	0.9309531	0.97691	-6.254716
GLUL	0.0058556	6.9640532	0.0889998	0.9309882	0.97691	-6.254721
ZNF775	-0.010778	7.2955065	-0.088865	0.9310924	0.97691	-6.254733
DCAF4L1	-0.008333	7.086075	-0.088823	0.9311252	0.97691	-6.254738
BCAR1	-0.006181	6.7702909	-0.088672	0.9312415	0.97696	-6.254752
C2CD4C	-0.007543	7.0785191	-0.08855	0.9313357	0.97699	-6.254763
GYPC	-0.005499	6.7586112	-0.088363	0.9314803	0.97707	-6.254781
LINC00638	-0.005648	6.8272427	-0.08809	0.9316919	0.97718	-6.254807
PRKACG	0.0069494	6.8732653	0.087891	0.9318455	0.97718	-6.254825
WNT5A	-0.006814	7.9814622	-0.087867	0.9318638	0.97718	-6.254828
BLK	-0.007737	9.01546	-0.087798	0.9319173	0.97718	-6.254834
CSMD2	0.0063577	6.9625637	0.0877137	0.9319826	0.97718	-6.254842
CARF	-0.006932	6.8168051	-0.087708	0.9319871	0.97718	-6.254843
SENP5	0.0074902	7.7958057	0.0873494	0.9322644	0.97728	-6.254876
SHC2	0.0058533	6.8828935	0.0873316	0.9322781	0.97728	-6.254878
UST	-0.005701	8.1709419	-0.087291	0.9323098	0.97728	-6.254882
TCEA1	0.0082246	9.2542672	0.087233	0.9323544	0.97728	-6.254887
CHTF8	0.0060244	7.1088236	0.0870819	0.9324712	0.97731	-6.254901
AMDHD1	-0.006714	6.9025103	-0.087029	0.9325125	0.97731	-6.254906
HTATSF1P2	0.0080287	7.4421729	0.0869237	0.9325935	0.97732	-6.254916
SNAR-A1	-0.010934	8.2359212	-0.086804	0.9326864	0.97733	-6.254927
SLC9A2	-0.008448	7.0545343	-0.086746	0.9327313	0.97733	-6.254932
MIR1258	0.0052881	6.9399335	0.0866396	0.9328132	0.97734	-6.254942
MAPK8	0.0059318	6.9955319	0.0865494	0.932883	0.97735	-6.25495
PLA2G10	-0.006527	6.9208695	-0.086445	0.9329634	0.97736	-6.25496
VCX3A	0.0065497	6.8344106	0.0859708	0.9333305	0.97768	-6.255004
MIR708	-0.00592	6.8914183	-0.085704	0.9335371	0.97778	-6.255028
OR10Q1	0.0076213	6.8091328	0.0855467	0.9336584	0.97778	-6.255043
C1orf159	-0.007641	7.6303803	-0.085503	0.9336924	0.97778	-6.255047
ZNF611	-0.007926	6.9730198	-0.08549	0.9337026	0.97778	-6.255048
VPS39	0.0066041	7.3726785	0.0851984	0.9339278	0.97791	-6.255074
BCAP29	-0.005889	8.1123945	-0.084858	0.9341914	0.97791	-6.255105
DLAT	-0.006277	9.8194192	-0.084845	0.9342012	0.97791	-6.255106
TMEM158	-0.005136	6.7218063	-0.084837	0.9342072	0.97791	-6.255107
MTMR10	-0.005606	7.9699347	-0.084829	0.9342133	0.97791	-6.255108
GPATCH11	-0.005258	6.8294041	-0.084697	0.9343159	0.97791	-6.25512
RNASEL	-0.00505	6.9696063	-0.08461	0.934383	0.97791	-6.255128
RCSD1	0.0084204	8.5929049	0.0846081	0.9343844	0.97791	-6.255128
LRRC3	0.0062364	6.9166463	0.0845304	0.9344445	0.97791	-6.255135

PRAM1	-0.005673	6.7392175	-0.084349	0.9345848	0.97791	-6.255151
THNSL2	0.0084083	6.9953729	0.0839299	0.934909	0.97791	-6.255189
DDX3Y	-0.008024	7.2542744	-0.083862	0.9349614	0.97791	-6.255195
ZNF33B	0.0073261	7.8991595	0.0838456	0.9349742	0.97791	-6.255196
LRP8	0.0065162	8.6073201	0.0838228	0.9349919	0.97791	-6.255198
ASPH	0.0078234	7.1121721	0.0837936	0.9350144	0.97791	-6.255201
ICOS	0.0069572	6.9158343	0.0836935	0.9350918	0.97791	-6.25521
TEX9	-0.006674	8.3388108	-0.083465	0.9352687	0.97791	-6.25523
ESD	-0.005397	9.5570748	-0.083458	0.9352738	0.97791	-6.255231
MAN1A1	0.008154	7.4201307	0.08343	0.9352956	0.97791	-6.255234
PMS1	0.0071538	7.4011558	0.0833905	0.9353262	0.97791	-6.255237
ZNF114	0.0060856	6.8576456	0.0833585	0.935351	0.97791	-6.25524
MAN2A1	-0.007261	7.3959679	-0.0833	0.9353965	0.97791	-6.255245
5-Mar	-0.006068	7.7152566	-0.083292	0.9354022	0.97791	-6.255246
GCH1	0.0062736	7.5088352	0.0832503	0.9354347	0.97791	-6.25525
FN3K	-0.005114	6.7773826	-0.083164	0.9355016	0.97791	-6.255257
TPM1	-0.005371	6.8308247	-0.082906	0.9357013	0.97799	-6.25528
PSMB6	-0.010384	12.52263	-0.082844	0.935749	0.97799	-6.255286
HOXA4	-0.005653	6.8518424	-0.082816	0.9357709	0.97799	-6.255288
FASTKD5	-0.005711	9.3039389	-0.082628	0.9359161	0.97806	-6.255305
LST1	0.0048971	6.8364583	0.0825108	0.9360067	0.97806	-6.255315
TCAIM	0.0052554	7.2929209	0.0824174	0.936079	0.97806	-6.255323
GSTTP2	0.004943	7.3031212	0.0823822	0.9361063	0.97806	-6.255326
RAB40B	0.0049758	6.7784098	0.0820318	0.9363773	0.97822	-6.255357
ATM	0.0093642	8.7041287	0.0820029	0.9363997	0.97822	-6.25536
CD3D	0.0051941	6.7397255	0.0818707	0.936502	0.97826	-6.255371
CTBP1-AS2	0.0056497	6.9283702	0.0816089	0.9367045	0.97834	-6.255394
C11orf58	-0.006928	8.2500638	-0.081592	0.9367176	0.97834	-6.255396
RPRD1B	0.0055676	8.0887732	0.0810814	0.9371126	0.97867	-6.25544
SRSF5	0.0096803	10.963966	0.0809194	0.937238	0.97867	-6.255454
IL12RB2	-0.005644	6.8213769	-0.080828	0.9373086	0.97867	-6.255462
TREM2	-0.005582	6.9462323	-0.080775	0.9373494	0.97867	-6.255466
GHR	-0.005737	6.6631265	-0.080739	0.9373773	0.97867	-6.255469
STK24	0.0050192	9.5304597	0.0806723	0.9374292	0.97867	-6.255475
PPM1K	-0.005106	7.7935453	-0.080394	0.9376443	0.97882	-6.255499
PTN	-0.005697	6.842371	-0.079944	0.9379931	0.97912	-6.255538
CSRNP2	0.0049313	7.6509594	0.0797682	0.9381288	0.97912	-6.255553
HDHD2	-0.009167	9.5328954	-0.079764	0.9381322	0.97912	-6.255553
GLMN	0.0077817	9.599514	0.0794305	0.9383901	0.97922	-6.255581
AVPR2	0.0074768	7.3037506	0.0794061	0.938409	0.97922	-6.255583
CENPJ	0.0064131	7.8871107	0.0793801	0.9384291	0.97922	-6.255586
TOB1	-0.004895	8.4484392	-0.079103	0.9386432	0.97934	-6.255609
MBLAC1	0.00485	6.8785761	0.0788596	0.9388319	0.97934	-6.25563
DCUN1D5	-0.005374	9.8635261	-0.078834	0.9388514	0.97934	-6.255632
MCRS1	0.0071695	9.5294131	0.0787727	0.9388991	0.97934	-6.255637

MPHOSPH8	0.0063853	8.4689737	0.0787252	0.9389359	0.97934	-6.255641
WNT7B	-0.005103	6.799183	-0.07867	0.9389787	0.97934	-6.255646
JMY	0.0061012	7.2151215	0.0786094	0.9390255	0.97934	-6.255651
INSRR	0.0053417	6.9454293	0.0785054	0.939106	0.97934	-6.255659
ATP2B1	-0.011087	7.6948264	-0.078391	0.9391947	0.97934	-6.255669
TMEM136	0.0056643	6.678411	0.0783708	0.9392102	0.97934	-6.255671
ACKR3	-0.005707	9.9617576	-0.078195	0.9393463	0.97935	-6.255685
OGN	0.0061597	6.8955457	0.0781866	0.9393527	0.97935	-6.255686
NECTIN3	0.0050104	6.7729471	0.0777282	0.9397075	0.97947	-6.255724
MAP3K11	0.0069951	7.7064828	0.0777086	0.9397227	0.97947	-6.255726
CXorf36	-0.006459	7.0803093	-0.077697	0.9397315	0.97947	-6.255727
RPS27	0.0057864	13.82701	0.0776161	0.9397943	0.97947	-6.255734
CCDC68	0.0054504	6.8917029	0.0775904	0.9398142	0.97947	-6.255736
DRAM2	-0.00572	8.7031941	-0.077508	0.9398777	0.97947	-6.255742
PRTG	0.0052787	6.7791268	0.0772597	0.9400701	0.97956	-6.255763
KLHL20	0.0053442	8.0951839	0.077226	0.9400962	0.97956	-6.255766
PDGFC	0.0054369	6.7887324	0.0767786	0.9404425	0.97985	-6.255803
SERPINA5	0.0069321	7.0924289	0.076694	0.9405079	0.97985	-6.25581
DUS1L	0.0094047	8.5373168	0.0765806	0.9405958	0.97987	-6.255819
MIR1243	-0.00462	6.8195991	-0.076298	0.9408143	0.98003	-6.255842
MSRB1	0.0065002	10.180264	0.0761776	0.9409077	0.98004	-6.255852
MCRIP2	-0.012468	9.6410153	-0.076113	0.9409574	0.98004	-6.255857
CCDC155	-0.004555	6.8774467	-0.075963	0.9410736	0.98006	-6.255869
OR56B1	-0.005969	7.05721	-0.075821	0.9411835	0.98006	-6.255881
ENO1-AS1	-0.006424	7.2709503	-0.075771	0.9412225	0.98006	-6.255885
SPATA5	-0.005488	7.005545	-0.075662	0.941307	0.98006	-6.255894
RNASEK	-0.005893	10.365982	-0.075624	0.9413361	0.98006	-6.255897
RNU6-15P	0.0104243	11.1414	0.0755465	0.9413962	0.98006	-6.255903
PDE7B	-0.005569	6.7951075	-0.075483	0.9414457	0.98006	-6.255908
IKZF2	-0.00552	7.0531209	-0.075118	0.9417278	0.98028	-6.255937
EXOSC9	0.0046149	10.120921	0.074983	0.9418324	0.98031	-6.255948
ATP6V0E2-A	0.0058522	7.2166605	0.0748444	0.9419397	0.98031	-6.255959
FOXK2	0.0057064	7.3791587	0.0748208	0.9419579	0.98031	-6.255961
LOC728178	0.0065422	7.0947239	0.0746509	0.9420895	0.98038	-6.255975
NRG3	-0.006734	6.9097144	-0.074449	0.9422458	0.98042	-6.255991
HSD17B7	0.0095883	10.349094	0.0744248	0.9422646	0.98042	-6.255993
DDHD1	0.0049103	6.9073816	0.0743019	0.9423597	0.98045	-6.256002
WWOX	0.0052925	7.5778884	0.0739349	0.9426438	0.98052	-6.256032
FKBP1AP1	0.0076391	7.0129688	0.0737391	0.9427954	0.98052	-6.256047
XRCC1	-0.006253	7.9278643	-0.073722	0.9428083	0.98052	-6.256048
MASTL	-0.004628	8.1152295	-0.073718	0.9428114	0.98052	-6.256049
CENPU	0.0070405	7.8865134	0.0736444	0.9428687	0.98052	-6.256054
LEKR1	0.0067271	6.8783245	0.0734587	0.9430125	0.98052	-6.256069
POLR2L	0.005053	8.0139256	0.0734505	0.9430189	0.98052	-6.25607
SNX10	0.008475	8.4468163	0.0734417	0.9430257	0.98052	-6.25607

SSBP4	0.0054466	7.4646778	0.0734365	0.9430297	0.98052	-6.256071
MMP9	0.0059113	6.76023	0.0729833	0.9433805	0.98071	-6.256106
PRKACB	-0.005757	7.5592515	-0.072907	0.9434393	0.98071	-6.256112
APPL2	0.0077562	7.784173	0.0728035	0.9435198	0.98071	-6.25612
FAM81A	-0.006232	8.2293897	-0.072764	0.9435501	0.98071	-6.256123
RBCK1	0.0064149	8.5136999	0.0727015	0.9435987	0.98071	-6.256128
TBL1Y	-0.004864	6.8445157	-0.072548	0.9437175	0.98071	-6.25614
RNF167	0.0064689	9.1306068	0.0725018	0.9437534	0.98071	-6.256144
TBX1	-0.005175	6.9630849	-0.07241	0.9438245	0.98071	-6.256151
PPP1R3F	-0.006441	7.3961164	-0.072265	0.9439371	0.98071	-6.256162
DNAJB5	-0.005651	7.2271465	-0.072161	0.9440175	0.98071	-6.25617
ABCC13	0.0046799	6.9208485	0.072144	0.9440304	0.98071	-6.256171
DUXAP3	0.0071076	8.8667219	0.0721233	0.9440464	0.98071	-6.256173
IFNA21	0.0058594	6.9138764	0.0719298	0.9441963	0.98071	-6.256188
FOXN4	-0.005068	6.8300328	-0.071904	0.9442165	0.98071	-6.25619
ELAVL1	-0.005257	8.3221758	-0.071878	0.9442365	0.98071	-6.256192
SNORA71C	0.0050756	6.8896621	0.0717269	0.9443534	0.98071	-6.256203
SNRPE	-0.007445	7.6848921	-0.071584	0.9444644	0.98071	-6.256214
CRIP1	0.0070455	10.321887	0.0715666	0.9444775	0.98071	-6.256216
ZNF23	-0.007381	7.7830051	-0.071498	0.9445305	0.98071	-6.256221
SHTN1	0.0050538	6.7488823	0.0714655	0.9445558	0.98071	-6.256223
PLBD2	-0.007456	7.1722984	-0.071348	0.9446471	0.98073	-6.256232
GPX1	0.005155	8.3109514	0.0711872	0.9447713	0.98075	-6.256244
EPHX2	0.0051011	6.8189158	0.071059	0.9448706	0.98075	-6.256254
PORCN	0.0053272	7.2266604	0.0709828	0.9449296	0.98075	-6.25626
CENPBD1	-0.005672	7.6021684	-0.07097	0.9449392	0.98075	-6.256261
CRYGB	0.0060724	6.9023368	0.0707789	0.9450875	0.98075	-6.256275
OGFOD2	-0.005826	6.9472774	-0.070716	0.9451362	0.98075	-6.25628
ZNHIT2	-0.005986	7.8237548	-0.070714	0.9451377	0.98075	-6.25628
STARD8	-0.004514	6.8558021	-0.070546	0.9452679	0.98082	-6.256293
DHX15	-0.004586	11.763324	-0.070251	0.9454964	0.98099	-6.256315
C16orf87	-0.008731	9.0021	-0.07012	0.9455975	0.98102	-6.256325
DECR2	0.0057949	8.5651408	0.069992	0.9456969	0.98105	-6.256335
NSG1	-0.004896	6.7580509	-0.069723	0.9459053	0.9812	-6.256355
CTPS1	-0.009806	10.358478	-0.069463	0.946107	0.98134	-6.256374
IL2RG	0.0052918	7.3086034	0.0691405	0.9463563	0.98153	-6.256398
KCNMB3	-0.005528	6.9477309	-0.069014	0.9464547	0.98156	-6.256407
PFKFB4	0.011421	9.6988239	0.0689273	0.9465215	0.98156	-6.256414
ARHGAP15	0.0045333	10.058414	0.0687001	0.9466975	0.98156	-6.25643
ZNF721	0.0088817	8.6834951	0.0686768	0.9467155	0.98156	-6.256432
LCNL1	0.0047985	6.9672179	0.0686669	0.9467232	0.98156	-6.256433
CDKN1C	-0.004333	6.8402199	-0.068528	0.9468308	0.9816	-6.256443
ZW10	0.0075553	9.9081306	0.0682455	0.9470496	0.98176	-6.256464
TNRC18	0.0060766	6.8931052	0.0680111	0.9472311	0.98188	-6.256481
PLPP4	-0.005309	6.9848295	-0.067901	0.9473166	0.9819	-6.256489

TBC1D24	-0.004423	6.8797304	-0.067798	0.9473965	0.9819	-6.256496
CCDC61	0.005436	6.9466409	0.0676248	0.9475303	0.9819	-6.256509
TAOK3	0.0049315	8.0743909	0.0676241	0.9475309	0.9819	-6.256509
CPNE2	-0.00446	6.8595429	-0.067546	0.9475911	0.9819	-6.256514
ALDH6A1	0.0047965	7.965377	0.0673733	0.9477251	0.98197	-6.256527
DEFB4A	-0.008655	6.9152618	-0.067186	0.9478704	0.98205	-6.25654
PDCD2	0.0046245	10.510956	0.067035	0.9479872	0.98205	-6.256551
FGFBP3	0.0048988	7.1065877	0.0670167	0.9480013	0.98205	-6.256552
CTNNA1	0.0053326	7.4798181	0.0667989	0.9481701	0.98215	-6.256568
GIMAP5	-0.004477	6.8653957	-0.066588	0.9483334	0.98223	-6.256583
GINM1	-0.004684	7.7331898	-0.066532	0.9483765	0.98223	-6.256587
SOD1	-0.005355	13.104737	-0.06637	0.9485021	0.98229	-6.256598
TMTC2	-0.004278	7.0249342	-0.065946	0.948831	0.98256	-6.256628
FARP1	-0.004099	6.8617674	-0.065765	0.9489708	0.98263	-6.256641
SAP18	-0.004935	8.0919098	-0.065638	0.9490691	0.98267	-6.25665
CD59	-0.005835	8.2761612	-0.065531	0.9491526	0.98268	-6.256658
TAX1BP3	0.0042267	8.0757334	0.0650211	0.9495473	0.98302	-6.256693
FOXO6	0.004576	7.0917257	0.0649002	0.949641	0.98305	-6.256701
INSR	-0.00575	7.0966305	-0.064787	0.949729	0.98307	-6.256709
VPS72	-0.00473	8.4522098	-0.064376	0.9500473	0.98319	-6.256738
PGBD2	0.0057458	7.3053289	0.0643296	0.950083	0.98319	-6.256741
MIER2	-0.007447	7.1685325	-0.064304	0.9501025	0.98319	-6.256743
SCRN3	-0.004037	6.9827958	-0.064286	0.9501168	0.98319	-6.256744
MBD6	0.0070425	8.4924308	0.0640887	0.9502697	0.98322	-6.256757
APOBEC3D	0.0043419	7.2898942	0.0640779	0.9502781	0.98322	-6.256758
ROCK1	0.0040683	7.3005223	0.0639952	0.9503421	0.98322	-6.256764
DEK	0.0068511	10.327331	0.0638983	0.9504172	0.98323	-6.25677
PCDHAC2	-0.004209	6.9514066	-0.063505	0.9507216	0.98346	-6.256797
HOXB2	0.0038783	6.8084624	0.063353	0.9508397	0.98346	-6.256808
CAMKV	-0.004144	6.7926978	-0.063203	0.9509559	0.98346	-6.256818
CDYL2	-0.004374	6.9753408	-0.063173	0.9509792	0.98346	-6.25682
DLEC1	0.0050471	6.8797826	0.0631671	0.9509837	0.98346	-6.25682
DPAGT1	0.0055686	8.7136559	0.063086	0.9510466	0.98346	-6.256826
SEPSECS	0.0053663	6.8279072	0.0629657	0.9511398	0.98348	-6.256834
ZNF557	-0.004489	7.7673949	-0.062671	0.9513685	0.98365	-6.256853
FSCB	0.0061678	6.9747851	0.0625663	0.9514493	0.98367	-6.25686
DEPDC7	0.0037821	6.7876347	0.0623136	0.9516451	0.9838	-6.256877
ALDH18A1	0.0043142	10.516596	0.0622195	0.951718	0.9838	-6.256884
COQ10B	-0.005525	9.5327999	-0.062003	0.9518861	0.98382	-6.256898
LEPR	-0.003861	6.8450037	-0.061966	0.9519147	0.98382	-6.2569
SSTR3	-0.005623	6.8963472	-0.061937	0.951937	0.98382	-6.256902
LINC02210	-0.006185	7.3192795	-0.061461	0.952306	0.98407	-6.256934
FAM198B	0.0045173	6.8547357	0.0614427	0.95232	0.98407	-6.256935
TMIGD1	-0.004909	6.9213759	-0.061363	0.9523816	0.98407	-6.25694
MIR1185-1	-0.00567	7.5073867	-0.061274	0.9524509	0.98407	-6.256946

USP18	-0.004219	6.7248165	-0.061171	0.9525302	0.98409	-6.256953
FAM185A	0.0038311	6.957734	0.0610778	0.9526027	0.98409	-6.256959
NAE1	-0.00426	9.6673814	-0.060756	0.9528522	0.98428	-6.25698
RGPD5	0.003811	6.8918088	0.0602897	0.9532135	0.98449	-6.25701
SPECC1	0.0037495	6.9845487	0.0602526	0.9532423	0.98449	-6.257012
TOR2A	-0.007158	7.1410489	-0.060159	0.9533149	0.98449	-6.257018
ERP29	0.0045762	9.7183547	0.0601416	0.9533283	0.98449	-6.257019
MRVI1	0.0049085	6.9503801	0.0599729	0.953459	0.98455	-6.25703
GPR89B	0.0067603	8.4922626	0.0598903	0.953523	0.98455	-6.257035
LNX2	0.004176	7.8941734	0.0597533	0.9536292	0.98459	-6.257044
MIR1237	-0.00412	6.87928	-0.059518	0.9538115	0.98465	-6.257059
IFI44	0.0055644	7.0163156	0.0595055	0.9538212	0.98465	-6.25706
MAGEA9B	0.004096	6.9680876	0.0589282	0.9542687	0.98505	-6.257097
ZNF564	0.0040863	7.388016	0.0587398	0.9544147	0.98513	-6.257108
LPIN2	0.003967	7.129235	0.0583613	0.954708	0.98536	-6.257132
LOC100506(	-0.00409	7.0278943	-0.058265	0.9547828	0.98537	-6.257138
MAP3K14-A:	0.0043996	6.7952437	0.0581271	0.9548896	0.98538	-6.257147
SNRNP25	-0.004223	9.4579898	-0.058008	0.9549819	0.98538	-6.257154
COPS7B	0.0036577	9.9458529	0.0579636	0.9550163	0.98538	-6.257157
PIGM	-0.003661	8.4419239	-0.057897	0.9550683	0.98538	-6.257161
EEF1A1	0.0041223	13.878754	0.0576555	0.9552551	0.9854	-6.257176
DLL1	-0.005062	6.7771703	-0.057594	0.9553027	0.9854	-6.25718
CHD1	0.0081283	8.8181337	0.0575821	0.955312	0.9854	-6.25718
TMEM187	0.0037316	6.9494431	0.0575303	0.9553522	0.9854	-6.257184
HGSNAT	-0.003681	6.9587449	-0.057298	0.9555323	0.98551	-6.257198
TEKT2	-0.004303	6.9115608	-0.056965	0.9557902	0.98556	-6.257218
SKIV2L2	0.0058733	9.7700111	0.0568395	0.9558876	0.98556	-6.257226
CYBRD1	0.003521	6.86986	0.0566568	0.9560293	0.98556	-6.257237
SREK1	-0.004277	7.7789531	-0.056626	0.9560534	0.98556	-6.257239
LMAN2L	0.0036086	8.6903635	0.0564364	0.9562001	0.98556	-6.25725
OR6P1	-0.003968	6.8046239	-0.056432	0.9562038	0.98556	-6.25725
STIL	-0.005181	9.3989697	-0.056407	0.9562228	0.98556	-6.257252
NUDT3	-0.004904	9.7210849	-0.056365	0.9562557	0.98556	-6.257254
MIR215	0.0039932	6.8097931	0.0563493	0.9562677	0.98556	-6.257255
PCSK7	-0.006724	8.4739179	-0.056235	0.9563562	0.98556	-6.257262
CLEC18C	-0.005902	7.0568099	-0.056097	0.9564634	0.98556	-6.257271
ALDH3A1	-0.003975	6.8004221	-0.056059	0.9564928	0.98556	-6.257273
BIVM	-0.003702	7.5895868	-0.056034	0.9565121	0.98556	-6.257274
ZNF10	0.0040305	6.9720981	0.0560241	0.9565197	0.98556	-6.257275
HAUS8	-0.003732	8.4496562	-0.055628	0.9568265	0.9858	-6.257298
MAN1C1	0.0041982	6.7169108	0.0554985	0.9569272	0.98584	-6.257306
COL6A3	-0.004751	6.9020416	-0.055341	0.9570494	0.98589	-6.257316
DKKL1	0.0039126	6.9323236	0.055185	0.9571702	0.98592	-6.257325
ATP8B3	0.0033384	6.7203592	0.0550947	0.9572402	0.98592	-6.25733
C22orf29	0.0046467	7.7051106	0.0550182	0.9572995	0.98592	-6.257335

TNFRSF25	0.0039799	6.6891613	0.0548902	0.9573988	0.98592	-6.257342
PTPN4	-0.004538	7.9370431	-0.054815	0.9574568	0.98592	-6.257346
TICAM2	-0.005272	7.8526082	-0.05478	0.9574842	0.98592	-6.257349
LINC01873	-0.005928	7.215386	-0.054561	0.957654	0.98603	-6.257361
ZNF555	0.0037722	7.0393262	0.0544723	0.9577228	0.98603	-6.257366
PRDM10	-0.003537	8.0490253	-0.054276	0.9578748	0.98612	-6.257378
ZNF839	-0.003643	8.3181858	-0.054003	0.9580868	0.98627	-6.257394
TAPT1-AS1	-0.004069	7.0686145	-0.05383	0.9582208	0.98627	-6.257404
CHTOP	-0.004086	10.11373	-0.05382	0.9582288	0.98627	-6.257404
RAC3	0.0033074	7.1043383	0.0537263	0.9583011	0.98628	-6.25741
OR11H1	-0.004353	7.0949039	-0.053451	0.9585143	0.98643	-6.257425
MZT2A	-0.005716	7.6611286	-0.053274	0.9586521	0.98646	-6.257435
IGSF6	-0.004892	6.8532386	-0.05318	0.9587247	0.98646	-6.257441
MSL2	-0.003283	6.9518524	-0.053117	0.9587738	0.98646	-6.257444
TBKBP1	-0.003588	6.8634995	-0.053063	0.9588152	0.98646	-6.257447
MAPKAP1	-0.003733	9.1360217	-0.052671	0.9591196	0.9867	-6.25747
HDGFRP3	0.0041186	6.7869868	0.0525827	0.9591877	0.9867	-6.257475
ZNF492	0.0041855	6.8302943	0.0524356	0.9593018	0.98674	-6.257483
GTF3C3	-0.005553	9.7954531	-0.052357	0.9593627	0.98674	-6.257487
PLAC8L1	0.0060633	6.9659963	0.0520554	0.9595966	0.98683	-6.257504
PLIN3	0.0062428	10.84141	0.0519233	0.959699	0.98683	-6.257511
SP140L	0.0031444	6.8721462	0.0519008	0.9597165	0.98683	-6.257513
ADGRL2	0.0044993	6.7703329	0.0516254	0.95993	0.98683	-6.257528
MT1DP	0.0032254	6.8694847	0.0513633	0.9601333	0.98683	-6.257542
ABHD18	-0.004007	7.4823508	-0.051277	0.9602004	0.98683	-6.257547
IDE	-0.003254	8.5925328	-0.051271	0.9602045	0.98683	-6.257547
GPAM	-0.003334	8.6824708	-0.051196	0.9602631	0.98683	-6.257551
ERCC6L2	0.0041917	7.2244186	0.0511025	0.9603355	0.98683	-6.257557
NHSL2	0.0030545	6.8768094	0.0510686	0.9603618	0.98683	-6.257558
ATF7	-0.003392	6.9036981	-0.051054	0.9603733	0.98683	-6.257559
SYCE1L	-0.003598	6.9092373	-0.050878	0.9605094	0.98683	-6.257569
S100A11	0.004803	6.8700515	0.050794	0.9605747	0.98683	-6.257573
GUCY2D	0.0036653	6.7851518	0.0507449	0.9606128	0.98683	-6.257576
SFXN1	-0.006338	9.6188319	-0.050733	0.9606217	0.98683	-6.257577
C21orf62-AS	0.0043432	6.9124012	0.050628	0.9607034	0.98683	-6.257582
MIR593	0.0045356	7.0733771	0.0506118	0.960716	0.98683	-6.257583
NR1D1	0.0042134	6.893849	0.0505164	0.96079	0.98683	-6.257588
MSC	0.003104	6.7473402	0.0505071	0.9607972	0.98683	-6.257589
DNAJB14	-0.00449	7.6876948	-0.050482	0.9608171	0.98683	-6.25759
IL27RA	0.0039554	7.1908163	0.0504163	0.9608676	0.98683	-6.257594
SZT2	0.0030391	6.9280529	0.0501866	0.9610457	0.98693	-6.257606
NFYB	-0.003831	7.33322	-0.050108	0.9611066	0.98693	-6.25761
PAX6	0.0031027	6.8092241	0.0500367	0.961162	0.98693	-6.257614
EPB41L2	-0.003294	6.8133905	-0.049688	0.9614324	0.98701	-6.257633
ASPRV1	0.0031777	6.8105901	0.0494887	0.9615869	0.98701	-6.257643

KIRREL2	-0.003057	6.8296846	-0.049442	0.9616234	0.98701	-6.257646
TRMT13	0.0048058	8.5691132	0.0494148	0.9616443	0.98701	-6.257647
TBPL1	-0.003652	10.205533	-0.049387	0.9616662	0.98701	-6.257649
GHRL	0.0033651	6.7474559	0.0493058	0.9617288	0.98701	-6.257653
ARPP19	0.0041744	9.2674596	0.0492684	0.9617578	0.98701	-6.257655
FAM86JP	-0.004616	7.2923748	-0.049231	0.9617867	0.98701	-6.257657
PEX26	-0.003471	6.9832078	-0.048999	0.961967	0.98712	-6.257669
NSD2	-0.003053	6.9740615	-0.048923	0.9620253	0.98712	-6.257673
ABHD6	-0.00454	8.8523707	-0.048686	0.9622092	0.98718	-6.257685
GRK5	-0.003183	7.675931	-0.048672	0.9622201	0.98718	-6.257686
TRMT44	-0.003261	7.285074	-0.048371	0.9624537	0.98723	-6.257702
IFT22	-0.003224	6.8673264	-0.048349	0.9624708	0.98723	-6.257703
GPA33	-0.002929	6.9911562	-0.048307	0.9625031	0.98723	-6.257705
MIR548I1	-0.003515	6.8131171	-0.048201	0.9625854	0.98723	-6.25771
SLC25A5	0.00442	14.091153	0.0481678	0.9626113	0.98723	-6.257712
CLDN20	0.0030881	6.9743783	0.0478264	0.9628762	0.98733	-6.25773
KCTD5	-0.003676	8.633655	-0.047535	0.9631018	0.98733	-6.257745
FCGR3A	-0.003231	6.9192854	-0.047535	0.963102	0.98733	-6.257745
OR4C12	-0.00475	7.0326085	-0.04751	0.9631215	0.98733	-6.257746
CRTAP	0.0033625	7.6944212	0.0474725	0.9631506	0.98733	-6.257748
AGGF1	-0.004215	7.3342629	-0.047454	0.9631652	0.98733	-6.257749
MTX1	-0.003555	8.8058624	-0.047431	0.9631827	0.98733	-6.25775
AADACL4	0.0033321	6.8860331	0.046975	0.9635365	0.98742	-6.257773
SLC25A24	0.0035547	6.8759639	0.0469533	0.9635533	0.98742	-6.257774
PCDHGA8	0.0036987	6.824249	0.0469414	0.9635625	0.98742	-6.257775
FCGR2A	-0.00318	6.9465261	-0.046909	0.9635878	0.98742	-6.257776
HYAL1	-0.003886	6.8204807	-0.046801	0.9636715	0.98742	-6.257782
TAZ	0.0032303	7.3319873	0.046795	0.963676	0.98742	-6.257782
NFATC1	0.0029401	7.2795756	0.0465847	0.9638392	0.9875	-6.257792
SSNA1	0.004898	9.0236428	0.0464993	0.9639054	0.9875	-6.257797
MAP3K9	0.0034869	6.909399	0.046437	0.9639537	0.9875	-6.2578
MEX3C	0.0052117	9.0254749	0.0461963	0.9641404	0.98762	-6.257812
MARS2	0.0029696	8.3987813	0.0459046	0.9643667	0.98765	-6.257826
HAND2-AS1	0.0031206	6.8488668	0.045867	0.9643958	0.98765	-6.257828
MYL12A	0.005735	11.660549	0.0458311	0.9644237	0.98765	-6.25783
FPGS	-0.003333	6.9124742	-0.045644	0.9645691	0.98765	-6.257839
SNORA71A	0.0036329	7.0205124	0.0455964	0.9646057	0.98765	-6.257841
AKR1C4	-0.003397	6.9183525	-0.045428	0.9647362	0.98765	-6.257849
PSME1	0.002822	10.300275	0.0453573	0.9647912	0.98765	-6.257853
ALDH1A3	0.0030638	6.8321333	0.0450919	0.9649971	0.98765	-6.257865
SRRM5	-0.003752	6.9794233	-0.045092	0.9649972	0.98765	-6.257865
AHSP	-0.004728	7.0604971	-0.045004	0.965065	0.98765	-6.25787
CSRNP1	0.0033716	9.8262767	0.0449256	0.9651261	0.98765	-6.257873
ABCA7	-0.005154	7.4813256	-0.04488	0.9651616	0.98765	-6.257876
MCM7	0.0047672	9.3323695	0.0448721	0.9651676	0.98765	-6.257876

SUV39H1	0.004321	9.7638734	0.0446951	0.9653048	0.98765	-6.257885
LAIR2	0.0028253	6.8142134	0.0446038	0.9653757	0.98765	-6.257889
TOX2	0.002774	7.0734844	0.0445833	0.9653915	0.98765	-6.25789
HBG2	-0.002891	6.9432867	-0.044563	0.9654071	0.98765	-6.257891
BUD31	-0.004477	11.044293	-0.044455	0.965491	0.98765	-6.257896
GTF3C2	-0.002952	9.8614467	-0.044381	0.9655484	0.98765	-6.257899
MID1	0.0027338	6.8403028	0.0442062	0.9656841	0.98765	-6.257908
ZNF75D	-0.003489	7.6789032	-0.044178	0.9657061	0.98765	-6.257909
GOPC	-0.004298	8.0494509	-0.044162	0.9657184	0.98765	-6.25791
TOP1MT	0.0042222	9.1736084	0.044159	0.9657207	0.98765	-6.25791
LILRA6	0.0026843	6.8096349	0.0436456	0.9661189	0.98796	-6.257934
DPYSL3	-0.002869	6.6576528	-0.043452	0.966269	0.98796	-6.257943
NR3C2	0.0044336	7.2484842	0.0434021	0.9663079	0.98796	-6.257945
POT1	0.0027524	7.520509	0.0433344	0.9663604	0.98796	-6.257949
POLD3	0.0029183	7.3799355	0.0433327	0.9663617	0.98796	-6.257949
FAM160B2	-0.003038	7.0537605	-0.043021	0.9666034	0.98805	-6.257963
RNF150	-0.002797	6.7521374	-0.043019	0.9666051	0.98805	-6.257963
SHB	0.0029977	7.0499064	0.0429272	0.9666763	0.98805	-6.257967
CIPC	-0.002729	9.4307655	-0.042759	0.9668068	0.98805	-6.257975
IFT172	0.0027775	6.8968992	0.0426194	0.966915	0.98805	-6.257981
LOC284933	0.0032267	6.8418167	0.0425906	0.9669374	0.98805	-6.257983
CITED2	-0.003405	8.6604435	-0.04258	0.9669452	0.98805	-6.257983
RIN3	0.0032667	6.9595758	0.0425128	0.9669978	0.98805	-6.257986
CRABP2	-0.003473	7.0742505	-0.042221	0.9672239	0.98821	-6.257999
ZNF761	-0.003299	7.1726029	-0.042062	0.9673474	0.98822	-6.258007
KIAA0753	0.0030394	7.6566468	0.0420088	0.9673887	0.98822	-6.258009
CTTNBP2NL	-0.003045	6.8791134	-0.041957	0.967429	0.98822	-6.258011
LINC00226	-0.002933	7.0170575	-0.041815	0.9675388	0.98826	-6.258018
ACOT1	0.0027787	6.8191814	0.0413861	0.9678718	0.98845	-6.258037
DYNLT1	0.0030889	9.8716047	0.0413219	0.9679216	0.98845	-6.25804
APOLD1	0.0038468	6.9534053	0.0413068	0.9679334	0.98845	-6.25804
MAP3K21	-0.003092	6.9290304	-0.041149	0.9680555	0.98848	-6.258047
SUSD5	0.0033732	7.1528404	0.0411025	0.9680918	0.98848	-6.258049
ZMAT5	-0.003776	8.0020184	-0.040834	0.9683004	0.98862	-6.258061
SEMA4F	0.002805	7.2179798	0.040652	0.9684413	0.9887	-6.258069
MRPL35	-0.002524	9.732563	-0.040349	0.9686763	0.98882	-6.258082
ELOVL4	-0.003071	6.8128193	-0.040211	0.9687835	0.98882	-6.258088
FPR1	-0.003878	7.0540423	-0.040175	0.9688112	0.98882	-6.258089
SYNRG	0.0026495	6.9238838	0.0401524	0.968829	0.98882	-6.25809
ITIH1	0.0040924	7.0243466	0.0399233	0.9690067	0.98889	-6.2581
NUDT17	-0.002532	6.8619619	-0.039887	0.9690352	0.98889	-6.258102
NFU1	0.0033619	8.5553459	0.0395923	0.9692635	0.98896	-6.258114
YDJC	-0.002768	8.1589506	-0.039543	0.9693021	0.98896	-6.258116
CDA	-0.002712	6.7383585	-0.039527	0.9693143	0.98896	-6.258117
GNB4	0.0026061	6.9398085	0.0394031	0.9694103	0.98897	-6.258122

LOC728024	-0.003413	7.2387074	-0.039341	0.9694582	0.98897	-6.258125
GSTCD	-0.002583	6.9669142	-0.039073	0.9696663	0.98912	-6.258136
PPP2CB	-0.002523	7.6597662	-0.038759	0.9699103	0.9893	-6.258149
INTS6L	-0.003258	7.2573164	-0.038613	0.9700236	0.98934	-6.258155
C19orf54	-0.003516	7.8858286	-0.038426	0.9701683	0.98941	-6.258163
PROK1	0.0029122	6.9297284	0.0383546	0.9702239	0.98941	-6.258166
GLCE	-0.003797	7.9345279	-0.037963	0.9705277	0.98962	-6.258182
CCDC71	-0.005069	8.0613903	-0.037897	0.9705789	0.98962	-6.258185
NCOA1	-0.002765	7.8666773	-0.037788	0.9706638	0.98962	-6.258189
PAX9	-0.003172	6.8952095	-0.037686	0.9707429	0.98962	-6.258193
REEP1	0.0025972	6.7160456	0.0376509	0.9707699	0.98962	-6.258194
ZCCHC24	0.0035278	7.1177185	0.0375582	0.9708418	0.98962	-6.258198
GSTTP1	-0.003217	6.7923942	-0.037344	0.9710083	0.98968	-6.258207
SLC35G1	-0.002505	6.706672	-0.037302	0.9710406	0.98968	-6.258208
EMG1	0.0027026	10.929951	0.0371364	0.9711691	0.98968	-6.258215
GGPS1	-0.002541	8.1251484	-0.037068	0.9712223	0.98968	-6.258218
MIA	-0.003	7.0545753	-0.037045	0.9712401	0.98968	-6.258219
ACTRT2	-0.002671	6.7840251	-0.036552	0.9716225	0.98994	-6.258238
TXLNA	0.003708	10.55331	0.0364912	0.9716697	0.98994	-6.25824
NDUFA3	-0.002715	12.740208	-0.036458	0.9716953	0.98994	-6.258242
LHX2	-0.002319	6.892045	-0.036211	0.9718875	0.98999	-6.258251
TSPAN6	-0.002209	6.8608843	-0.036192	0.9719019	0.98999	-6.258252
C1QTNF6	-0.002486	6.8110636	-0.035997	0.9720531	0.98999	-6.25826
ERCC1	0.0027667	8.4851912	0.035987	0.972061	0.98999	-6.25826
TBC1D10C	-0.004088	8.7248836	-0.035877	0.9721463	0.98999	-6.258264
CD163L1	-0.002323	6.7263905	-0.035868	0.972153	0.98999	-6.258264
PARD3B	-0.002634	6.8404838	-0.035782	0.97222	0.98999	-6.258268
KLHL3	-0.002688	6.9702702	-0.035588	0.9723704	0.99008	-6.258275
PNMA3	-0.002233	6.7835125	-0.035427	0.9724952	0.99013	-6.258281
HYALP1	-0.00275	7.2691242	-0.035236	0.9726435	0.99022	-6.258288
RGS12	0.00212	6.8859899	0.0351074	0.9727436	0.99025	-6.258293
EXT1	-0.002286	7.2956897	-0.034656	0.9730939	0.99049	-6.25831
HNRNPA3P1	-0.003615	8.1898402	-0.034623	0.9731198	0.99049	-6.258311
GRSF1	0.0038912	10.346371	0.0342527	0.9734069	0.99069	-6.258325
ARFGEF2	0.0025102	7.7109241	0.0341992	0.9734483	0.99069	-6.258327
RAN	-0.002465	11.817238	-0.03409	0.9735331	0.99071	-6.258331
CRNKL1	-0.00272	7.3805757	-0.033989	0.9736117	0.99072	-6.258335
FBLN1	-0.002047	6.8352562	-0.033899	0.9736812	0.99072	-6.258338
RBM19	-0.00432	7.1185177	-0.033646	0.9738776	0.99078	-6.258347
BIN2	-0.002656	6.6943407	-0.033641	0.9738815	0.99078	-6.258347
DEFB128	-0.002023	6.8762371	-0.033053	0.9743376	0.99118	-6.258368
BCAS2	-0.002821	7.1225306	-0.032774	0.9745548	0.99124	-6.258378
ZNF366	0.0022251	6.825276	0.0327566	0.9745679	0.99124	-6.258379
ACTRT1	-0.002614	7.5868836	-0.032715	0.9746003	0.99124	-6.25838
RCC1	-0.004869	8.3304412	-0.032229	0.9749773	0.99151	-6.258397

TXN	-0.002341	13.669822	-0.032197	0.9750022	0.99151	-6.258398
ATP6V1E1	-0.002449	11.04002	-0.031967	0.9751807	0.99158	-6.258406
SPATA33	0.0019445	6.8395989	0.0319391	0.9752024	0.99158	-6.258407
TBC1D17	0.0033913	7.0459496	0.0316544	0.9754233	0.99168	-6.258417
DACT3	0.0029195	7.1919231	0.0315897	0.9754735	0.99168	-6.258419
ACKR4	-0.002425	7.267036	-0.03152	0.9755276	0.99168	-6.258421
KCNH8	-0.002703	7.0283493	-0.031415	0.9756088	0.99168	-6.258425
WNT3	-0.002309	6.9186146	-0.031298	0.9756999	0.99168	-6.258429
SSR1	-0.002885	10.185556	-0.031278	0.9757152	0.99168	-6.258429
NSUN3	0.0027219	7.5033051	0.0310182	0.9759171	0.99171	-6.258438
BIRC2	0.0024361	8.4536588	0.0309808	0.9759461	0.99171	-6.258439
FLOT1	0.0032224	9.0471197	0.03094	0.9759778	0.99171	-6.25844
KCNK13	0.0028801	6.8874603	0.0308104	0.9760784	0.99171	-6.258445
HMGB3P1	-0.001936	6.8619177	-0.030807	0.9760811	0.99171	-6.258445
ZSCAN5B	0.0023949	6.7658498	0.0306282	0.9762198	0.99178	-6.258451
ADAMDEC1	-0.002278	7.3274673	-0.03053	0.9762964	0.99179	-6.258454
IL17C	-0.002641	6.9477545	-0.030325	0.9764548	0.99188	-6.258461
MAFF	0.0018741	6.9994639	0.0301732	0.9765729	0.99193	-6.258465
WNT9B	-0.002425	7.0685369	-0.030019	0.9766924	0.99199	-6.25847
FTSJ1	0.00242	8.885809	0.0298081	0.9768563	0.99208	-6.258477
IDH3G	-0.003067	8.1081978	-0.029587	0.9770283	0.99217	-6.258484
ZNF24	-0.003061	7.5127701	-0.029527	0.9770747	0.99217	-6.258486
OMD	-0.001976	6.880192	-0.029161	0.977359	0.99232	-6.258498
DYNC1LI2	-0.002957	10.143075	-0.029134	0.9773795	0.99232	-6.258498
TEX19	-0.003003	7.7575998	-0.029056	0.9774402	0.99232	-6.258501
CEACAM6	0.0022167	6.8274813	0.0289855	0.9774948	0.99232	-6.258503
CA9	0.0018779	6.96557	0.0282423	0.9780717	0.99279	-6.258526
HSF2	-0.001981	8.9129226	-0.028142	0.9781495	0.99279	-6.258529
LINC02091	-0.002808	7.002526	-0.028126	0.9781618	0.99279	-6.258529
CHMP1B	-0.001874	8.8605016	-0.028023	0.9782415	0.9928	-6.258532
AGFG1	0.0018992	7.6582811	0.0278875	0.9783471	0.99284	-6.258536
MIR1267	0.002417	7.0426872	0.0273645	0.978753	0.99313	-6.258552
ATG10	-0.002357	7.6697863	-0.027264	0.978831	0.99313	-6.258555
LGALS9	0.0018229	6.7724302	0.0272057	0.9788763	0.99313	-6.258556
PCSK6	0.0029109	6.8852548	0.027143	0.978925	0.99313	-6.258558
CD80	0.0020051	8.7113289	0.0270803	0.9789737	0.99313	-6.25856
TPT1-AS1	0.002743	7.3725503	0.0269606	0.9790666	0.99315	-6.258564
TUFT1	0.0017496	6.8052584	0.0265577	0.9793793	0.9934	-6.258575
AIFM3	-0.002108	7.0024806	-0.026411	0.9794936	0.99343	-6.258579
MBNL3	-0.001907	7.2083372	-0.026345	0.9795441	0.99343	-6.258581
C2CD2	0.0018564	6.9166787	0.0261512	0.9796949	0.9935	-6.258587
SLC27A2	0.0016694	6.8217494	0.0260304	0.9797886	0.9935	-6.25859
SPDYE3	0.0022241	6.8425539	0.0258913	0.9798966	0.9935	-6.258594
CPSF7	0.0022193	6.9723019	0.0257989	0.9799683	0.9935	-6.258596
RPRD1A	0.002113	10.158968	0.0257521	0.9800046	0.9935	-6.258598

LSM3	-0.002352	11.489513	-0.025734	0.9800187	0.9935	-6.258598
PPP1R13L	-0.00169	6.9931757	-0.025618	0.9801088	0.99352	-6.258601
ARL6IP1	-0.001725	9.445544	-0.025336	0.9803279	0.99364	-6.258609
RBM25	0.0035972	10.303521	0.0252639	0.9803836	0.99364	-6.258611
ZNF28	0.0016645	7.1200974	0.0252071	0.9804277	0.99364	-6.258612
METTL26	-0.00189	8.905768	-0.025024	0.9805703	0.99371	-6.258617
APH1B	-0.001829	6.8151135	-0.0246	0.9808992	0.99387	-6.258629
PHF14	0.0016655	7.9519829	0.0245216	0.9809599	0.99387	-6.258631
YARS2	-0.00198	10.262684	-0.024276	0.9811502	0.99387	-6.258637
GDE1	-0.002523	7.9639642	-0.024169	0.9812338	0.99387	-6.25864
IL4	0.0016851	6.8254876	0.0241502	0.9812482	0.99387	-6.25864
DMBX1	-0.001919	6.7981839	-0.02403	0.9813417	0.99387	-6.258643
PARL	0.0018109	10.373513	0.0239883	0.9813739	0.99387	-6.258644
C11orf65	0.0021047	6.9650513	0.0239571	0.9813981	0.99387	-6.258645
GABPB1	0.0015546	8.1584444	0.0238205	0.9815041	0.99387	-6.258649
IRS4	0.0015423	6.9236996	0.0237828	0.9815334	0.99387	-6.25865
SLC5A12	-0.002059	7.0478243	-0.023743	0.9815644	0.99387	-6.258651
PEMT	0.0019073	8.7373801	0.0237206	0.9815817	0.99387	-6.258651
OR1F2P	0.002026	6.9339888	0.0232907	0.9819155	0.99387	-6.258662
CRYL1	-0.001609	7.2650266	-0.023209	0.9819786	0.99387	-6.258664
NXF4	-0.002129	6.9873543	-0.023147	0.9820269	0.99387	-6.258666
FAM229B	0.0018783	7.6001708	0.0231429	0.9820301	0.99387	-6.258666
MTSS1	-0.001771	7.4440335	-0.023081	0.9820781	0.99387	-6.258667
SDHAF1	0.0021813	8.933307	0.023021	0.9821248	0.99387	-6.258669
NDRG1	-0.001789	6.9338979	-0.022992	0.9821476	0.99387	-6.258669
DEFB106B	-0.001673	6.929277	-0.022976	0.9821601	0.99387	-6.25867
RAB32	0.0016017	6.7424272	0.0229576	0.982174	0.99387	-6.25867
POP1	0.0021231	8.6656049	0.0228883	0.9822278	0.99387	-6.258672
LOC613206	-0.001466	6.9419905	-0.022433	0.9825812	0.99411	-6.258683
LZTS2	-0.001809	7.0228514	-0.022414	0.9825958	0.99411	-6.258683
SCAF1	-0.001713	6.989302	-0.022249	0.9827242	0.99411	-6.258687
EIF3G	0.0018142	11.026012	0.0222318	0.9827374	0.99411	-6.258688
ATRX	0.001557	6.9084236	0.0219546	0.9829527	0.99424	-6.258694
OR2C1	-0.001618	6.8354874	-0.021888	0.9830043	0.99424	-6.258696
COPS3	0.0021439	11.701376	0.0217155	0.9831383	0.99431	-6.2587
SULF2	-0.001486	6.7656193	-0.021534	0.9832794	0.99438	-6.258704
RNF6	-0.001678	6.9862345	-0.020941	0.9837399	0.99452	-6.258718
CMAHP	-0.001441	7.647113	-0.020921	0.9837552	0.99452	-6.258718
TBXA2R	0.0015628	6.8019658	0.0208759	0.9837901	0.99452	-6.258719
ASCC1	0.0013986	10.068294	0.0208284	0.983827	0.99452	-6.25872
LRRC28	0.0017595	8.3257993	0.0208094	0.9838418	0.99452	-6.258721
FOXN2	-0.002917	9.681716	-0.020761	0.9838797	0.99452	-6.258722
ADAMTS3	-0.002295	6.8357419	-0.02065	0.9839651	0.99452	-6.258724
KL	0.0015043	6.8443398	0.0205977	0.9840061	0.99452	-6.258725
AKR7A3	-0.002182	9.0020264	-0.020572	0.9840257	0.99452	-6.258726

SIGLEC14	-0.00153	6.8933241	-0.020395	0.9841636	0.99456	-6.25873
ZNF426	0.0018611	7.086513	0.0203398	0.9842063	0.99456	-6.258731
MARCO	-0.00175	6.9586495	-0.02021	0.9843073	0.9946	-6.258734
ID1	-0.00126	6.7575838	-0.020119	0.9843777	0.9946	-6.258736
RRAD	-0.001548	6.8097201	-0.019933	0.9845218	0.99468	-6.25874
PLEKHH3	-0.001743	7.4906153	-0.019822	0.9846082	0.99469	-6.258742
TCIRG1	0.0014049	7.1441122	0.019466	0.9848848	0.99476	-6.258749
UNC5A	-0.001495	6.7092652	-0.019446	0.9849006	0.99476	-6.25875
PYROXD2	-0.00124	6.7222266	-0.019323	0.9849955	0.99476	-6.258752
ZNF836	-0.001502	6.893988	-0.019301	0.9850131	0.99476	-6.258753
QDPR	0.0012802	6.8327892	0.0192342	0.9850647	0.99476	-6.258754
CLUL1	0.0014815	7.1240463	0.0192147	0.9850798	0.99476	-6.258755
NCBP3	-0.001522	8.2317302	-0.01904	0.9852152	0.99483	-6.258758
LUC7L	0.0014065	7.5308484	0.0185583	0.9855895	0.995	-6.258768
C1orf105	0.0011343	6.8857296	0.0185137	0.9856241	0.995	-6.258769
PSG7	0.0011036	6.741902	0.0184715	0.9856569	0.995	-6.25877
AURKA	-0.001747	9.612162	-0.018465	0.9856618	0.995	-6.25877
NEU1	0.001261	8.1487037	0.0180945	0.9859496	0.99522	-6.258777
CHML	0.0013883	7.0753083	0.0174607	0.9864417	0.9956	-6.258789
HHATL	0.0012033	6.9519823	0.0174364	0.9864605	0.9956	-6.25879
DGKA	0.0017727	7.4114517	0.0171943	0.9866485	0.99563	-6.258794
SULT2B1	0.0012949	6.8612032	0.0171628	0.986673	0.99563	-6.258795
ZNF268	0.0015033	6.8786517	0.0171307	0.9866979	0.99563	-6.258795
C3AR1	0.0010143	6.8249329	0.0167741	0.9869748	0.99579	-6.258802
FCHSD2	0.0015989	8.2772108	0.0165573	0.9871431	0.99579	-6.258805
DGCR14	-0.001194	7.2717778	-0.016496	0.9871906	0.99579	-6.258807
ZMYND12	0.0010736	6.8680058	0.0164786	0.9872042	0.99579	-6.258807
FRA10AC1	0.0011666	7.1135146	0.0164733	0.9872083	0.99579	-6.258807
DHX40	0.0010287	8.4909172	0.0164099	0.9872575	0.99579	-6.258808
C6orf1	0.0010348	7.1173573	0.0159422	0.9876207	0.99602	-6.258816
AGL	-0.001108	7.7344143	-0.01584	0.9877001	0.99602	-6.258818
ETFDH	-0.001174	8.8913372	-0.015695	0.9878129	0.99602	-6.25882
FLOT2	0.0018042	11.667256	0.0155617	0.9879161	0.99602	-6.258823
LDLRAP1	-0.000976	6.829191	-0.01555	0.9879249	0.99602	-6.258823
CSF2RB	0.001207	6.8898595	0.0155257	0.9879441	0.99602	-6.258823
CTSL3P	0.0015331	6.9458439	0.0155009	0.9879633	0.99602	-6.258824
MKRN2	0.0016052	9.4609003	0.0153881	0.9880509	0.99604	-6.258825
MOCOS	-0.001101	6.8330335	-0.015277	0.9881369	0.99605	-6.258827
DHRSX	0.0010762	7.2194605	0.0149792	0.9883684	0.99622	-6.258832
PAXBP1	-0.001005	8.1415696	-0.014829	0.9884851	0.99625	-6.258834
BFSP2	0.0014394	7.4604908	0.01476	0.9885386	0.99625	-6.258836
JDP2	0.0012185	7.0961121	0.0144576	0.9887734	0.99642	-6.25884
GLRX5	-0.001432	13.076966	-0.01412	0.9890353	0.99653	-6.258845
LRRC46	0.0010068	6.8666097	0.0139024	0.9892045	0.99653	-6.258849
TCEAL9	-0.001058	6.9903175	-0.013851	0.9892446	0.99653	-6.258849

ABCF2	0.0011947	8.7928129	0.0138304	0.9892604	0.99653	-6.25885
C1orf132	-0.001575	7.4149852	-0.013728	0.9893398	0.99653	-6.258851
SKIV2L	0.0010735	9.538306	0.013644	0.9894051	0.99653	-6.258852
SLC10A4	0.0008933	6.7680301	0.0136313	0.989415	0.99653	-6.258853
ZNF184	0.0009079	7.3205182	0.0136073	0.9894336	0.99653	-6.258853
KIAA1958	0.0010248	7.2385896	0.0129834	0.989918	0.99687	-6.258862
MREG	-0.000812	7.8681828	-0.012904	0.9899794	0.99687	-6.258863
LOC1001307	-0.001305	7.0310226	-0.012847	0.9900236	0.99687	-6.258864
ZNF442	0.0010147	6.9331706	0.0128192	0.9900456	0.99687	-6.258864
TRAF3IP3	-0.000827	6.927291	-0.012743	0.990105	0.99687	-6.258865
HSH2D	0.0019954	8.9508689	0.0126215	0.9901991	0.99689	-6.258867
ZNF623	-0.001285	6.9694673	-0.01207	0.9906272	0.99721	-6.258874
NMUR1	0.0007763	6.7656389	0.0120433	0.990648	0.99721	-6.258874
CUL7	-0.000959	7.0396048	-0.011935	0.9907322	0.99722	-6.258876
TREX2	-0.000718	6.8107798	-0.011739	0.9908845	0.99727	-6.258878
LCE1B	-0.000823	6.9267502	-0.011699	0.9909151	0.99727	-6.258879
PTGIR	0.0007805	6.8113634	0.0115461	0.9910341	0.99732	-6.258881
C2orf82	0.0009891	6.9709071	0.0112638	0.9912533	0.99747	-6.258884
FAM135A	-0.001169	8.3155865	-0.011154	0.9913387	0.99747	-6.258885
C10orf120	-0.000716	6.8743368	-0.011087	0.9913905	0.99747	-6.258886
ST5	0.0006988	6.8790158	0.010957	0.9914915	0.99751	-6.258888
UNC45A	-0.000724	8.4029654	-0.010724	0.9916722	0.99762	-6.258891
CYCSP52	0.0008251	7.3171834	0.010554	0.9918045	0.99768	-6.258892
TMEM173	0.0007125	6.8532674	0.0103817	0.9919382	0.99775	-6.258894
IL7	-0.001073	7.2727334	-0.010133	0.9921311	0.99787	-6.258897
ELAVL3	0.000638	6.945957	0.0099622	0.992264	0.99794	-6.258899
HS2ST1	-0.00122	7.6261356	-0.009748	0.99243	0.99804	-6.258901
YES1	0.0007139	6.856258	0.0096595	0.992499	0.99804	-6.258902
TXN2	-0.000732	8.003512	-0.009403	0.992698	0.99817	-6.258905
BECN1	0.0007921	9.2941222	0.0092027	0.9928538	0.99825	-6.258907
ARHGEF25	-0.000611	6.8838651	-0.009121	0.9929176	0.99825	-6.258908
GRIA3	-0.000531	6.8128208	-0.008694	0.9932488	0.99845	-6.258912
TRAM2	-0.000817	7.4555846	-0.008691	0.9932508	0.99845	-6.258912
LANCL1	0.0007403	9.7478646	0.0085939	0.9933265	0.99846	-6.258913
TEX11	0.0007227	6.9535221	0.0084579	0.9934321	0.99849	-6.258914
NBPF22P	-0.000549	6.7478887	-0.007992	0.9937943	0.99873	-6.258918
GNA13	-0.000808	9.4092037	-0.007904	0.993862	0.99873	-6.258919
VPS13D	-0.000558	7.0378018	-0.007889	0.9938742	0.99873	-6.258919
SNX7	-0.000568	6.7987064	-0.007647	0.994062	0.99882	-6.258921
PMPCA	-0.00093	10.163782	-0.00752	0.9941606	0.99882	-6.258922
APBB3	0.0007263	8.09245	0.0075179	0.994162	0.99882	-6.258922
SALL4	0.0005129	6.8174861	0.0073593	0.9942852	0.99887	-6.258923
BOLA2	0.0004897	10.278794	0.007278	0.9943484	0.99887	-6.258924
GIPC1	-0.000483	6.8654826	-0.007005	0.99456	0.99888	-6.258926
PPDPF	-0.000711	7.3400412	-0.006926	0.9946218	0.99888	-6.258926

RASGRP4	0.0004593	7.136968	0.0069054	0.9946377	0.99888	-6.258927
PTCRA	0.0004261	6.8371891	0.0068836	0.9946546	0.99888	-6.258927
FBXO3	-0.000594	7.5770539	-0.00682	0.9947039	0.99888	-6.258927
HEATR3	0.0004792	8.4688589	0.0064809	0.9949673	0.99892	-6.25893
TMEM87B	-0.000571	7.0181144	-0.006371	0.9950527	0.99892	-6.25893
FAM214A	-0.000651	8.6128973	-0.006075	0.9952826	0.99892	-6.258932
ABCA1	-0.000538	8.2146873	-0.006046	0.9953049	0.99892	-6.258932
SFXN5	0.0003905	6.9659028	0.0059851	0.9953523	0.99892	-6.258933
NANP	-0.000386	7.4289366	-0.005976	0.9953591	0.99892	-6.258933
FUT6	0.000511	7.1021583	0.0057397	0.9955429	0.99892	-6.258934
PCNX2	0.0003499	7.1981765	0.0055073	0.9957234	0.99892	-6.258936
METTL7B	0.0004038	6.8082316	0.0054676	0.9957542	0.99892	-6.258936
CATSPER2	0.0005689	8.5979009	0.0054611	0.9957592	0.99892	-6.258936
ZNF618	0.0003684	6.7587701	0.005455	0.9957639	0.99892	-6.258936
FBXO32	-0.00036	6.9450473	-0.005385	0.9958181	0.99892	-6.258936
NPM3	-0.000471	11.602365	-0.005323	0.9958663	0.99892	-6.258937
DCBLD1	-0.000316	6.7747861	-0.005163	0.9959909	0.99892	-6.258938
RPLP0P2	0.0005416	6.8690419	0.0051555	0.9959965	0.99892	-6.258938
BCL2L15	0.0003772	6.7930039	0.0051548	0.9959971	0.99892	-6.258938
BEX3	0.0003487	7.3099335	0.0051123	0.9960301	0.99892	-6.258938
LOC730101	0.0003424	6.9319187	0.0050253	0.9960976	0.99892	-6.258938
RHPN2	0.0005322	9.2734378	0.0049217	0.996178	0.99892	-6.258939
ZNF367	-0.00032	7.03547	-0.004866	0.996221	0.99892	-6.258939
GCSH	-0.000306	8.7502068	-0.004853	0.996231	0.99892	-6.258939
ADGRA2	-0.000366	6.8039109	-0.004832	0.9962476	0.99892	-6.25894
LGALS2	0.0004697	6.9741422	0.0046184	0.9964136	0.99898	-6.258941
BHLHE22	0.0003221	6.8485816	0.0044883	0.9965146	0.99898	-6.258941
KIF18B	0.000294	6.8197045	0.0044608	0.996536	0.99898	-6.258941
RCAN1	-0.000302	7.1038872	-0.004402	0.9965813	0.99898	-6.258942
DDA1	0.0003956	10.39323	0.0041727	0.9967597	0.99908	-6.258943
KNTC1	-0.000387	9.1624466	-0.004089	0.996825	0.99908	-6.258943
CYP27C1	-0.00031	6.970426	-0.003982	0.9969079	0.9991	-6.258944
ANKRD13C	-0.000355	8.0828015	-0.003897	0.996974	0.9991	-6.258944
HECA	-0.000397	7.3450558	-0.003771	0.9970713	0.99912	-6.258944
C1RL	-0.000282	6.911204	-0.003695	0.9971309	0.99912	-6.258945
GNPTG	0.0003647	8.1838321	0.0033149	0.9974258	0.99934	-6.258946
PLAA	-0.000179	7.5568194	-0.002824	0.9978072	0.99962	-6.258948
SNRPD1	-0.000312	9.1605194	-0.00277	0.9978486	0.99962	-6.258948
JRK	-0.000218	6.9427232	-0.002698	0.9979051	0.99962	-6.258948
GLRB	-0.000151	6.749066	-0.00241	0.9981284	0.99971	-6.258949
DEFA4	0.0001665	6.9073556	0.0024059	0.9981317	0.99971	-6.258949
RAB8B	0.0003067	9.8834777	0.0022465	0.9982555	0.99976	-6.258949
KIF17	-0.000143	6.715267	-0.002043	0.9984135	0.99979	-6.25895
ZNF107	-0.000138	6.8909855	-0.001736	0.9986515	0.99979	-6.25895
DCN	0.0001083	6.8432494	0.001697	0.9986822	0.99979	-6.25895

FGD6	-0.000144	7.2352892	-0.001695	0.9986841	0.99979	-6.25895
LINC00094	-0.000118	8.1751263	-0.001454	0.9988707	0.99979	-6.258951
EIF2AK3	0.0001348	7.9544442	0.001377	0.9989307	0.99979	-6.258951
MMP1	9.18E-05	6.801048	0.001344	0.9989563	0.99979	-6.258951
RSRC2	0.0001308	8.6364847	0.0012993	0.9989911	0.99979	-6.258951
DSE	-9.65E-05	6.8526652	-0.001199	0.9990688	0.99979	-6.258951
EGFLAM	7.24E-05	6.8135366	0.0011682	0.9990928	0.99979	-6.258951
HIP1	9.06E-05	6.8597222	0.0011118	0.9991367	0.99979	-6.258951
FBXL20	-9.93E-05	7.6564794	-0.00109	0.9991535	0.99979	-6.258951
HIST2H3A	7.60E-05	6.8522718	0.001062	0.9991753	0.99979	-6.258951
TBX2	-5.58E-05	6.6756315	-0.000917	0.9992876	0.99984	-6.258952
BBS9	5.56E-05	7.1128476	0.0007361	0.9994283	0.99984	-6.258952
STYXL1	6.92E-05	8.4288665	0.0007297	0.9994333	0.99984	-6.258952
CASC10	-3.57E-05	6.9478396	-0.00052	0.9995964	0.99986	-6.258952
VEGFC	2.85E-05	6.8445046	0.0004003	0.9996892	0.99986	-6.258952
SARM1	-2.90E-05	7.6446399	-0.000378	0.9997067	0.99986	-6.258952
C2orf54	-3.07E-05	6.89011	-0.000352	0.9997268	0.99986	-6.258952
SCAMP3	1.66E-05	8.8320537	0.0002407	0.9998131	0.99988	-6.258952
LAMA2	5.15E-06	6.7885801	7.04E-05	0.9999453	0.99995	-6.258952