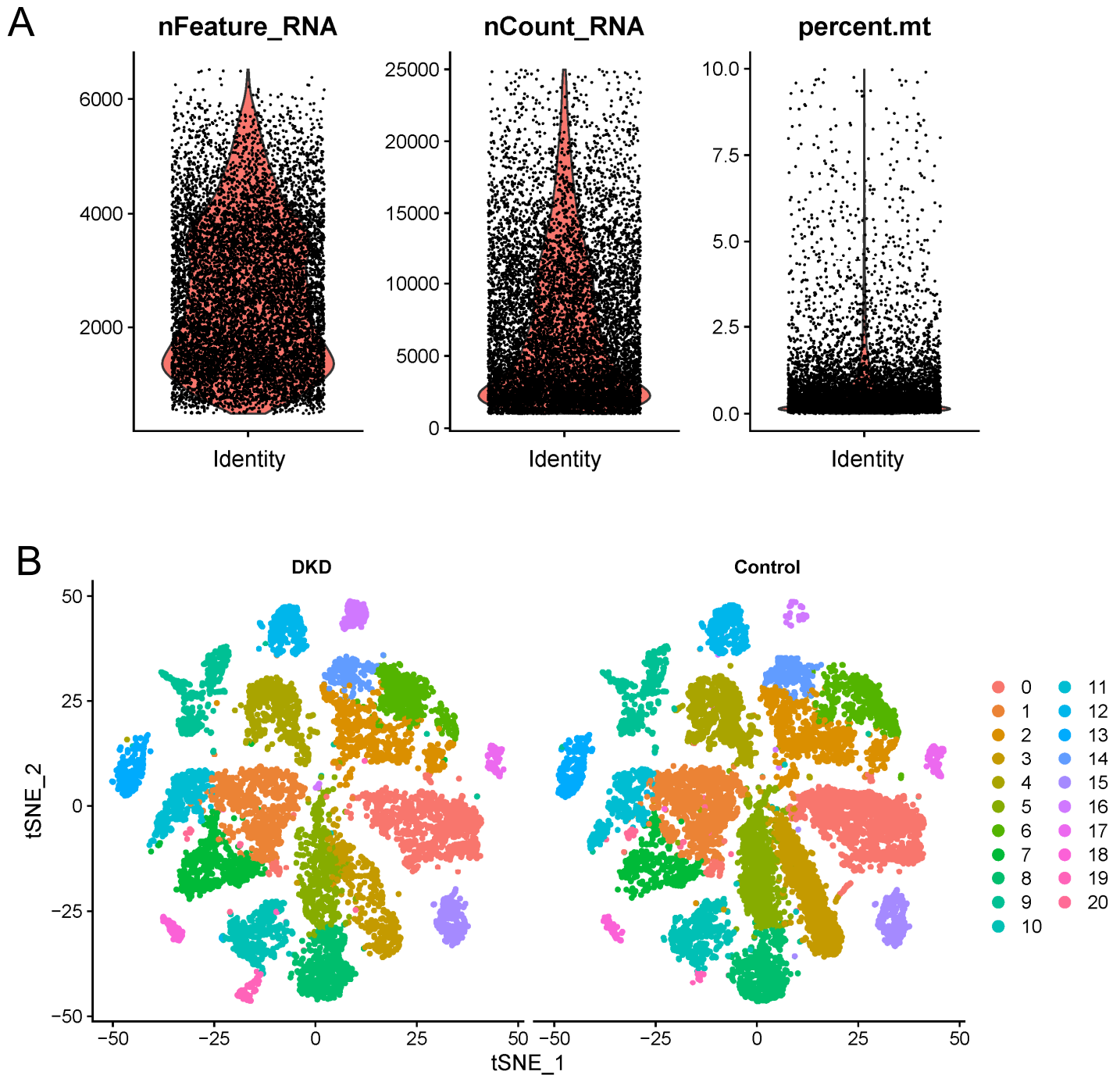


Supplementary figure 1



Supplementary figure 1. (A) Post quality control filtering of each sequenced cell, which was plotted in violin plots to display their number of RNA features (nFeature_RNA), absolute UMI counts (nCount_RNA) and the proportion of mitochondria (percent.mt). (B) T-SNE plot of the distribution of DKD and normal group.

Table S1. High variable genes in 21 clusters

P-value	avg_log2FC	pct.1	pct.2	adjust p-value	cluster	gene
0	5.283083995	0.993	0.121	0	0	SLC12A3
0	3.059335755	0.748	0.097	0	0	TRPM6
0	3.04896519	0.836	0.103	0	0	AC078980.1
0	2.957519033	0.909	0.433	0	0	CNNM2
0	2.928998992	0.959	0.59	0	0	TRPM7
0	2.841404204	0.941	0.327	0	0	EGF
0	2.367579029	0.87	0.257	0	0	FMN1
0	2.300646915	0.955	0.631	0	0	RNPC3
0	2.270890132	0.83	0.228	0	0	KLHL3
0	2.229279997	0.763	0.214	0	0	ADAMTS17
0	2.066246409	0.89	0.206	0	0	TMEM52B
0	2.051390285	0.811	0.28	0	0	CADM1
0	2.025310308	0.728	0.211	0	0	ZNF385D
0	2.012965947	0.908	0.485	0	0	ABCA5
0	1.864577831	0.782	0.206	0	0	CACNB4
0	1.852535328	0.872	0.504	0	0	TSC22D2
0	1.850938657	0.642	0.161	0	0	LINC00484
0	1.828308005	0.907	0.614	0	0	CPEB4
0	1.82102423	0.974	0.641	0	0	WNK1
0	1.815159169	0.401	0.115	0	0	CALCR
0	1.800121265	0.79	0.357	0	0	CACNA1D
0	1.783335664	0.559	0.169	0	0	SPP1
0	1.78106376	0.876	0.264	0	0	LINC01762
0	1.728390536	0.825	0.392	0	0	ICA1
0	1.70088386	0.949	0.691	0	0	KANK1
0	1.693342661	0.749	0.257	0	0	ABCA10
0	1.679734991	0.941	0.666	0	0	APBB2
0	1.65316653	0.804	0.334	0	0	FGF13
0	1.600427286	0.713	0.187	0	0	AC068547.1
0	1.53675779	0.433	0.059	0	0	DNER
0	1.532475385	0.77	0.349	0	0	TBC1D9
0	1.521645797	0.583	0.197	0	0	KL
0	1.499696091	0.676	0.189	0	0	ITPKB
1.54E-272	1.481088151	0.553	0.273	4.93E-268	0	IL1RAPL2
0	1.456867887	0.74	0.393	0	0	CNOT6L
0	1.444202399	0.969	0.771	0	0	MAML2
0	1.440498636	0.64	0.205	0	0	BTBD11
0	1.430971507	0.5	0.16	0	0	UNC5C
0	1.430916075	0.554	0.158	0	0	AMY2B
0	1.411276578	0.907	0.313	0	0	CACNA2D3
1.64E-199	1.409873169	0.328	0.125	5.25E-195	0	PTCHD1-AS
0	1.40935109	0.86	0.556	0	0	MITF
0	1.403650472	0.761	0.341	0	0	ZDHHC14
0	1.394135172	0.711	0.188	0	0	AC068631.1
0	1.390348787	0.599	0.073	0	0	CPXM2
0	1.38710975	0.474	0.059	0	0	SLC19A3
0	1.361958847	0.829	0.522	0	0	TSC22D1
0	1.355743496	0.368	0.037	0	0	PID1

0	1.354405094	0.835	0.465	0	0 IVNS1ABP
0	1.344728092	0.462	0.049	0	0 LINC01055
0	1.330258236	0.792	0.453	0	0 NOS1AP
0	1.324443556	0.735	0.215	0	0 CA10
0	1.317696965	0.966	0.714	0	0 ARHGAP6
0	1.304080193	0.503	0.049	0	0 DEPDC1B
0	1.301386	0.663	0.135	0	0 KNG1
0	1.289946884	0.848	0.582	0	0 USP24
0	1.270384644	0.612	0.25	0	0 SLC9C1
0	1.264412086	0.863	0.373	0	0 CLCNKB
0	1.260036953	0.651	0.181	0	0 HS6ST2
0	1.259543016	0.888	0.576	0	0 MRPS6
0	1.251023784	0.883	0.43	0	0 GRB14
0	1.245665748	0.991	0.866	0	0 ESRRG
7.25E-230	1.241152282	0.704	0.431	2.33E-225	0 GPC5
0	1.239074405	0.788	0.362	0	0 ACSL4
0	1.21258755	0.492	0.08	0	0 SLC24A3
0	1.212293011	0.523	0.154	0	0 MAP2K6
0	1.210370606	0.776	0.494	0	0 FRMD3
0	1.209883937	0.866	0.54	0	0 VAV3
0	1.206556895	0.54	0.137	0	0 HMCN1
0	1.198004909	0.466	0.032	0	0 TRIM50
0	1.191967703	0.733	0.392	0	0 GCNT2
0	1.185925468	0.868	0.575	0	0 ITPR1
0	1.183763211	0.847	0.602	0	0 LRCH1
0	1.183010043	0.819	0.346	0	0 CLCNKA
0	1.178832765	0.561	0.181	0	0 TNFRSF19
0	1.165801259	0.512	0.029	0	0 SALL3
0	1.15850907	0.665	0.314	0	0 AP001831.1
0	1.148276816	0.261	0.048	0	0 LINC01828
0	1.140209943	0.655	0.316	0	0 BACE2
0	1.134906794	0.888	0.684	0	0 CLASP1
0	1.128205071	0.799	0.466	0	0 WDFY2
0	1.127811234	0.458	0.105	0	0 GAD1
0	1.122665041	0.971	0.863	0	0 AL136164.2
0	1.11982198	0.736	0.233	0	0 CASR
0	1.116118498	0.617	0.155	0	0 WNK4
0	1.114791065	0.438	0.052	0	0 SHC3
0	1.100707858	0.883	0.508	0	0 EFNA5
0	1.100695295	0.717	0.307	0	0 LINC00970
0	1.10060239	0.904	0.646	0	0 AC005208.1
0	1.094857933	0.983	0.735	0	0 ERBB4
0	1.085523174	0.789	0.41	0	0 SCN2A
0	1.08500055	0.777	0.487	0	0 OPHN1
0	1.078529403	0.851	0.527	0	0 SAT1
0	1.076260324	0.821	0.536	0	0 CBLB
0	1.056804641	0.844	0.489	0	0 OSBPL3
0	1.04472017	0.857	0.518	0	0 COL4A3
0	1.040328993	0.981	0.733	0	0 AC019197.1
0	1.030036359	0.832	0.4	0	0 TEX41
0	1.028097958	0.497	0.157	0	0 VDR

0	1.02781986	0.725	0.207	0	0 ESRRB
0	1.019989732	0.571	0.223	0	0 ME3
0	1.009843653	0.802	0.442	0	0 AC138305.1
1.98E-200	1.005567257	0.594	0.328	6.35E-196	0 NELL1
0	1.003909491	0.374	0.094	0	0 AC117386.2
0	0.982302148	0.788	0.502	0	0 AK3
0	0.981567965	0.605	0.23	0	0 SEMA6D
0	0.981240799	0.525	0.192	0	0 DCUN1D5
0	0.977765816	0.906	0.66	0	0 FHOD3
0	0.963193261	0.47	0.151	0	0 PHF21B
0	0.948414792	0.788	0.443	0	0 TOX3
3.94E-241	0.944034463	0.784	0.569	1.27E-236	0 DYNC2H1
0	0.937709038	0.602	0.251	0	0 SNX10
1.52E-180	0.932989807	0.366	0.155	4.88E-176	0 LINC01505
9.36E-276	0.922217498	0.722	0.41	3.01E-271	0 RNF150
0	0.920618815	0.93	0.764	0	0 PKP4
0	0.914865192	0.62	0.147	0	0 TMEM101
0	0.911203593	0.4	0.082	0	0 SFRP1
0	0.911006754	0.72	0.402	0	0 KCNJ16
0	0.910953684	0.544	0.213	0	0 LINC01182
1.06E-273	0.899012845	0.602	0.304	3.41E-269	0 ATP8A1
3.53E-274	0.897289301	0.583	0.273	1.13E-269	0 CACHD1
0	0.896697393	0.373	0.097	0	0 USP43
4.18E-244	0.885944249	0.487	0.209	1.34E-239	0 CABLES1
0	0.882388077	0.951	0.822	0	0 LRBA
0	0.87624794	0.827	0.478	0	0 FREM1
1.37E-302	0.869999319	0.602	0.272	4.40E-298	0 GPRIN3
3.09E-182	0.869412049	0.632	0.36	9.92E-178	0 MYO3B
0	0.868562218	0.641	0.289	0	0 AC040174.1
0	0.868438676	0.652	0.282	0	0 TMPRSS2
1.27E-297	0.866843444	0.872	0.633	4.09E-293	0 LGR4
0	0.860805064	0.301	0.049	0	0 TMEM108
1.06E-52	0.860681278	0.284	0.182	3.41E-48	0 MIR646HG
2.26E-274	0.856786166	0.732	0.421	7.27E-270	0 KCTD1
7.45E-220	0.844911971	0.353	0.126	2.39E-215	0 CCDC60
6.35E-168	0.844473687	0.737	0.536	2.04E-163	0 ADGRL2
5.32E-292	0.844164688	0.626	0.322	1.71E-287	0 SPPL2A
2.41E-187	0.843769224	0.668	0.397	7.74E-183	0 AL390334.1
0	0.84314705	0.592	0.191	0	0 EMX1
0	0.840171491	0.993	0.763	0	0 CCSER1
0	0.838185909	0.702	0.273	0	0 GRAMD1B
0	0.837402602	0.446	0.124	0	0 GCGR
0	0.830362299	0.429	0.129	0	0 STAC
4.26E-235	0.83032694	0.664	0.37	1.37E-230	0 PDZRN3
0	0.830277556	0.439	0.13	0	0 C3orf52
3.81E-299	0.829682714	0.519	0.213	1.22E-294	0 MARK1
2.31E-132	0.814932899	0.263	0.105	7.41E-128	0 ADGRL3
5.85E-308	0.813310179	0.903	0.76	1.88E-303	0 FNDC3B
0	0.809805341	0.805	0.361	0	0 PIK3C2G
3.05E-256	0.80920485	0.406	0.148	9.80E-252	0 SLC12A2
3.01E-290	0.806386824	0.698	0.351	9.66E-286	0 ADAMTS16

5.47E-307	0.806057041	0.963	0.763	1.76E-302	0 PLCL1
0	0.803222749	0.807	0.409	0	0 DACH1
7.01E-210	0.801332848	0.654	0.398	2.25E-205	0 CPEB2
5.66E-269	0.79928419	0.484	0.206	1.82E-264	0 CCNB1IP1
0	0.794998822	0.276	0.062	0	0 EYA1
9.51E-223	0.793446072	0.683	0.381	3.05E-218	0 SLC16A7
0	0.793214982	0.423	0.114	0	0 LHX1-DT
6.01E-260	0.791168195	0.619	0.308	1.93E-255	0 PRSS23
1.62E-238	0.784950781	0.376	0.131	5.20E-234	0 SPOCK1
2.09E-125	0.784602566	0.313	0.142	6.70E-121	0 UNC13C
9.07E-246	0.780740685	0.7	0.38	2.91E-241	0 COL4A5
1.22E-294	0.778667013	0.694	0.342	3.91E-290	0 SIM1
6.92E-200	0.774742985	0.81	0.574	2.22E-195	0 IGFBP7
1.63E-259	0.772325887	0.543	0.241	5.23E-255	0 EXPH5
5.11E-193	0.763514231	0.373	0.141	1.64E-188	0 AC092078.2
3.14E-110	0.763214173	0.504	0.316	1.01E-105	0 FREM2
1.17E-217	0.762398616	0.589	0.322	3.76E-213	0 ITGB5
1.05E-267	0.75943047	0.467	0.183	3.38E-263	0 SH3PXD2A
1.53E-204	0.758370766	0.67	0.419	4.92E-200	0 NNT
9.91E-211	0.757864759	0.759	0.514	3.18E-206	0 CTDSPL
8.08E-261	0.744785154	0.716	0.426	2.60E-256	0 TOM1L2
0	0.744254051	0.989	0.751	0	0 MECOM
0	0.744162147	0.64	0.239	0	0 SGIP1
0	0.744089261	0.311	0.013	0	0 LINC01896
0	0.744065817	0.375	0.078	0	0 ABCA6
0	0.7399232	0.426	0.131	0	0 DENND2A
4.98E-266	0.737348374	0.736	0.437	1.60E-261	0 HOXD3
0	0.733219522	0.518	0.189	0	0 KCNJ1
2.75E-299	0.732866904	0.802	0.474	8.83E-295	0 TACC1
1.87E-208	0.731450629	0.625	0.357	6.01E-204	0 BCL2L1
0	0.723236597	0.393	0.11	0	0 LHX1
8.16E-241	0.72156201	0.656	0.344	2.62E-236	0 PLPPR1
0	0.719895417	0.927	0.685	0	0 ATP1B1
1.87E-229	0.718280221	0.476	0.205	6.01E-225	0 SLC20A1
7.95E-278	0.713568249	0.486	0.191	2.55E-273	0 SGSM1
3.37E-109	0.712871293	0.629	0.432	1.08E-104	0 SAMD5
1.54E-225	0.706789618	0.4	0.157	4.95E-221	0 RELL1
5.88E-14	0.706085875	0.388	0.318	1.89E-09	0 SLC8A1-AS1
6.58E-110	0.701131741	0.316	0.148	2.11E-105	0 FAM155A
2.42E-234	0.697532163	0.606	0.307	7.76E-230	0 MROH7
3.34E-143	0.695253265	0.578	0.355	1.07E-138	0 IPCEF1
2.40E-189	0.693650919	0.722	0.467	7.69E-185	0 XKR6
1.33E-230	0.686049365	0.855	0.598	4.27E-226	0 ATP1A1
6.56E-258	0.683372924	0.536	0.22	2.11E-253	0 RANBP3L
4.09E-239	0.683214656	0.588	0.282	1.31E-234	0 TMEM213
0	0.681273161	0.948	0.811	0	0 MSI2
4.77E-235	0.68060186	0.755	0.457	1.53E-230	0 COL4A4
0	0.677390868	0.402	0.12	0	0 NOS1
4.70E-215	0.676559691	0.564	0.279	1.51E-210	0 SLC22A15
8.76E-128	0.676249707	0.658	0.471	2.81E-123	0 HIF1A
1.16E-190	0.672895676	0.754	0.485	3.72E-186	0 RHOBTB3

8.43E-14	0.672578822	0.564	0.495	2.71E-09	0 SLC8A1
6.93E-269	0.670557864	0.428	0.157	2.23E-264	0 TMEM38B
6.32E-264	0.669138436	0.514	0.22	2.03E-259	0 SLC35B4
0	0.66630533	0.324	0.062	0	0 ABCA9-AS1
9.52E-213	0.664166433	0.678	0.399	3.06E-208	0 ACOT11
3.09E-303	0.663632954	0.55	0.213	9.91E-299	0 EYA2
5.12E-298	0.660985721	0.575	0.245	1.64E-293	0 PIP5K1B
5.04E-214	0.660579898	0.526	0.268	1.62E-209	0 FZD6
1.21E-211	0.659310471	0.494	0.242	3.88E-207	0 LINC00472
1.69E-186	0.658570166	0.797	0.571	5.43E-182	0 PTPN4
1.26E-146	0.656855675	0.735	0.523	4.03E-142	0 PRICKLE2
7.18E-300	0.656609465	0.413	0.132	2.31E-295	0 LAMA1
1.50E-206	0.655120923	0.747	0.454	4.80E-202	0 CCDC148
1.37E-219	0.654630664	0.452	0.187	4.41E-215	0 B4GALNT3
6.75E-175	0.652922368	0.47	0.231	2.17E-170	0 CTNNA1
9.89E-207	0.652849046	0.604	0.321	3.18E-202	0 ELOVL7
1.12E-93	0.652778164	0.8	0.665	3.61E-89	0 NFE2L2
2.80E-194	0.651564738	0.64	0.379	8.98E-190	0 LINC01138
3.94E-184	0.646325961	0.633	0.369	1.26E-179	0 ABCC5
2.60E-207	0.644067195	0.754	0.475	8.35E-203	0 FXRD2
2.83E-175	0.641339147	0.642	0.381	9.07E-171	0 ITGA2
5.16E-207	0.638374557	0.648	0.359	1.66E-202	0 DNMT3
2.35E-219	0.636797051	0.444	0.185	7.54E-215	0 TPST2
0	0.63615587	0.354	0.092	0	0 TFAP2A
9.53E-253	0.635946119	0.411	0.15	3.06E-248	0 ALPK3
0	0.635740851	0.254	0.023	0	0 TCF24
0	0.633571886	0.357	0.089	0	0 KCNN3
8.74E-135	0.62846463	0.681	0.49	2.81E-130	0 TMEM245
2.67E-208	0.626780617	0.598	0.305	8.56E-204	0 BLNK
8.11E-163	0.623469815	0.726	0.488	2.60E-158	0 C4orf19
3.71E-169	0.622650247	0.865	0.643	1.19E-164	0 PTGER3
2.14E-174	0.618323051	0.49	0.235	6.86E-170	0 KITLG
6.47E-247	0.617781375	0.717	0.377	2.08E-242	0 ATP6V0A4
5.77E-280	0.617477631	0.421	0.143	1.85E-275	0 INPP5J
9.72E-173	0.613895593	0.677	0.437	3.12E-168	0 ATRN
4.38E-168	0.613167152	0.841	0.662	1.41E-163	0 C20orf194
2.30E-184	0.611105181	0.542	0.276	7.38E-180	0 MST1L
8.05E-133	0.607219267	0.64	0.448	2.58E-128	0 CLINT1
2.56E-242	0.603049307	0.372	0.123	8.23E-238	0 AC024022.1
3.83E-144	0.602844746	0.727	0.518	1.23E-139	0 GBE1
0	0.598768974	0.892	0.565	0	0 CA12
1.26E-182	0.598288408	0.806	0.627	4.05E-178	0 ATP9B
3.34E-136	0.597774676	0.547	0.333	1.07E-131	0 LUZP1
4.31E-299	0.593321521	0.972	0.804	1.38E-294	0 COBLL1
5.79E-196	0.593255479	0.527	0.253	1.86E-191	0 SCN3A
5.88E-81	0.592794883	0.482	0.311	1.89E-76	0 AL033504.1
3.00E-177	0.591282528	0.715	0.486	9.63E-173	0 OGT
2.36E-82	0.589977488	0.584	0.42	7.58E-78	0 RASSF8
2.19E-183	0.589744664	0.348	0.137	7.02E-179	0 TAF4B
2.16E-148	0.588422203	0.708	0.481	6.95E-144	0 TMEM161B-AS1
0	0.587445729	0.289	0.009	0	0 AL355612.1

4.47E-275	0.587194178	0.296	0.077	1.43E-270	0 MED12L
3.30E-139	0.585381422	0.362	0.165	1.06E-134	0 NEXMIF
2.08E-167	0.582915875	0.883	0.746	6.68E-163	0 CDK14
1.16E-105	0.577823939	0.316	0.151	3.74E-101	0 COL4A6
8.07E-233	0.577331685	0.347	0.118	2.59E-228	0 AL161725.1
4.29E-171	0.576514123	0.406	0.179	1.38E-166	0 AP000317.2
4.57E-204	0.574616812	0.73	0.422	1.47E-199	0 STK39
3.47E-182	0.574548668	0.611	0.337	1.11E-177	0 ARNT2
0	0.573948845	0.298	0.058	0	0 AC016526.1
3.75E-290	0.57326203	0.298	0.076	1.20E-285	0 CDCP1
3.01E-154	0.571001732	0.84	0.662	9.66E-150	0 ABLIM1
7.23E-96	0.56946248	0.596	0.413	2.32E-91	0 AL078459.1
0	0.569193744	0.26	0.034	0	0 PROX1
1.68E-165	0.567969256	0.665	0.391	5.39E-161	0 STK32B
1.66E-200	0.561577398	0.465	0.199	5.34E-196	0 SUSL4
5.75E-175	0.559757101	0.913	0.743	1.85E-170	0 PPP2R3A
2.03E-162	0.559527936	0.527	0.287	6.52E-158	0 ERMP1
0	0.5590332	0.301	0.064	0	0 NPY1R
3.87E-182	0.557599567	0.424	0.191	1.24E-177	0 UXS1
2.93E-139	0.555252243	0.303	0.126	9.41E-135	0 KCNH1
9.52E-184	0.554478368	0.862	0.635	3.06E-179	0 LIMCH1
2.70E-168	0.553668106	0.88	0.728	8.66E-164	0 ATXN1
1.06E-32	0.553531166	0.728	0.646	3.41E-28	0 SH3RF1
5.70E-137	0.552353582	0.722	0.514	1.83E-132	0 SVIL
2.52E-176	0.551847098	0.53	0.276	8.09E-172	0 AC008878.3
8.60E-112	0.547222006	0.648	0.455	2.76E-107	0 STX18
1.09E-205	0.546308569	0.987	0.862	3.50E-201	0 PKHD1
2.68E-214	0.54396459	0.448	0.177	8.62E-210	0 NRK
1.06E-110	0.543609564	0.407	0.216	3.39E-106	0 LINC01036
1.13E-176	0.541892909	0.507	0.243	3.62E-172	0 KSR2
0	0.541331768	0.288	0.064	0	0 MMP13
2.78E-108	0.537009545	0.362	0.184	8.94E-104	0 FSTL4
6.59E-150	0.536607746	0.723	0.473	2.12E-145	0 TRIM2
1.22E-175	0.532549281	0.877	0.631	3.91E-171	0 MAST4
1.68E-113	0.532198591	0.759	0.585	5.40E-109	0 TBL1X
1.98E-163	0.528430058	0.584	0.324	6.36E-159	0 RAP1GAP2
1.11E-137	0.526023146	0.733	0.506	3.56E-133	0 PLCXD2
1.39E-109	0.525139618	0.664	0.47	4.46E-105	0 FERMT2
0	0.524281192	0.297	0.067	0	0 HOXD8
9.13E-135	0.52231937	0.799	0.595	2.93E-130	0 ACACB
4.20E-127	0.52225599	0.801	0.675	1.35E-122	0 MEF2A
6.68E-147	0.522157253	0.527	0.297	2.15E-142	0 TSC1
8.32E-174	0.519983822	0.445	0.209	2.67E-169	0 IDH2
4.25E-146	0.518837607	0.513	0.278	1.37E-141	0 CYS1
9.37E-185	0.517783099	0.473	0.224	3.01E-180	0 MYO5C
1.31E-104	0.517619848	0.683	0.492	4.21E-100	0 MAN1A1
9.14E-88	0.515931468	0.486	0.308	2.93E-83	0 AC009690.2
5.02E-169	0.515865139	0.429	0.197	1.61E-164	0 TPD52L1
6.62E-180	0.515834827	0.414	0.183	2.13E-175	0 HPRT1
3.18E-101	0.513395789	0.552	0.373	1.02E-96	0 TPP2
2.17E-132	0.512428092	0.659	0.446	6.97E-128	0 VAPA

2.82E-142	0.510938721	0.837	0.656	9.06E-138	0 ARHGAP24
1.99E-158	0.510763894	0.324	0.129	6.40E-154	0 SCN7A
6.51E-110	0.509235082	0.654	0.476	2.09E-105	0 ETNK1
2.15E-199	0.508440051	0.548	0.263	6.89E-195	0 PLCB4
2.91E-47	0.505209347	0.59	0.473	9.34E-43	0 TACC2
9.47E-189	0.503238842	0.281	0.092	3.04E-184	0 NRG2
1.92E-159	0.502822413	0.398	0.175	6.17E-155	0 TMEM72
2.63E-173	0.50249407	0.72	0.427	8.46E-169	0 KLHL13
1.31E-133	0.496652643	0.67	0.454	4.22E-129	0 SLC25A12
1.98E-139	0.49571687	0.549	0.304	6.36E-135	0 CECR2
9.18E-91	0.492923898	0.554	0.356	2.95E-86	0 CDH16
2.21E-124	0.490333036	0.697	0.493	7.10E-120	0 UNC13B
3.59E-122	0.489822941	0.487	0.272	1.15E-117	0 OBSCN
1.47E-130	0.488220963	0.492	0.267	4.74E-126	0 SH3BP4
6.50E-146	0.487118296	0.804	0.575	2.09E-141	0 AC012409.2
2.18E-118	0.485321628	0.652	0.463	6.99E-114	0 MTX2
6.13E-94	0.483062693	0.729	0.509	1.97E-89	0 MYO10
5.80E-77	0.482784302	0.691	0.536	1.86E-72	0 AEBP2
2.00E-154	0.481741873	0.732	0.478	6.44E-150	0 ARHGEF3
1.95E-300	0.479138543	0.255	0.053	6.25E-296	0 LINC00645
5.91E-114	0.478806767	0.466	0.252	1.90E-109	0 KCTD8
2.14E-109	0.476500437	0.635	0.437	6.88E-105	0 ACTR3C
1.06E-91	0.47528776	0.693	0.51	3.39E-87	0 NR6A1
1.45E-116	0.475262213	0.406	0.213	4.65E-112	0 B3GLCT
8.60E-137	0.475105201	0.88	0.747	2.76E-132	0 KIAA1217
1.10E-130	0.474865503	0.493	0.267	3.54E-126	0 DEFB1
1.22E-153	0.473792175	0.655	0.381	3.91E-149	0 FAM171A1
5.87E-172	0.472987807	0.98	0.914	1.89E-167	0 FHIT
3.78E-161	0.471199556	0.933	0.825	1.21E-156	0 SNX29
9.06E-121	0.470427604	0.647	0.416	2.91E-116	0 MPC1
3.39E-112	0.470207694	0.616	0.409	1.09E-107	0 CMTM4
4.66E-121	0.46732993	0.659	0.453	1.50E-116	0 SNRK
7.87E-152	0.466807344	0.811	0.553	2.53E-147	0 TRABD2B
8.49E-78	0.466227913	0.61	0.425	2.73E-73	0 GPAT3
8.78E-140	0.465635522	0.388	0.182	2.82E-135	0 MST1P2
1.00E-200	0.465319388	0.281	0.088	3.22E-196	0 BAALC-AS1
2.08E-163	0.465316592	0.403	0.178	6.66E-159	0 ATP2B4
5.12E-102	0.464092397	0.666	0.453	1.64E-97	0 FAAH2
3.25E-125	0.462088874	0.549	0.335	1.04E-120	0 STAM2
2.36E-130	0.461039087	0.895	0.773	7.58E-126	0 AGAP1
4.76E-124	0.460499849	0.501	0.291	1.53E-119	0 DCUN1D1
1.76E-118	0.460494627	0.357	0.174	5.65E-114	0 CIT
9.82E-121	0.459126517	0.431	0.233	3.15E-116	0 AC140504.1
4.55E-101	0.458870542	0.358	0.187	1.46E-96	0 OPRM1
1.50E-149	0.457671747	0.93	0.772	4.81E-145	0 NR3C2
9.85E-96	0.455734943	0.747	0.574	3.16E-91	0 DAB1
1.78E-105	0.453513372	0.778	0.618	5.72E-101	0 USP25
1.92E-135	0.452652563	0.779	0.548	6.16E-131	0 CLCN5
2.82E-118	0.450148056	0.455	0.252	9.06E-114	0 MRPL1
1.54E-102	0.448407984	0.734	0.555	4.95E-98	0 ARHGAP5
1.68E-125	0.448391692	0.36	0.172	5.40E-121	0 IGSF3

8.82E-124	0.447877365	0.922	0.767	2.83E-119	0 NAALADL2
3.69E-92	0.446716195	0.527	0.345	1.18E-87	0 BCL2L14
0	0.446193679	0.258	0.052	0	0 POGLUT3
1.36E-110	0.445148648	0.506	0.302	4.36E-106	0 PITPNM2
6.77E-110	0.444860591	0.512	0.307	2.17E-105	0 RUSC2
3.00E-165	0.440391462	0.349	0.138	9.64E-161	0 TMTC1
2.42E-78	0.437465965	0.575	0.4	7.76E-74	0 TCAIM
7.43E-92	0.437333156	0.686	0.48	2.38E-87	0 DSCAML1
1.13E-210	0.436497444	0.325	0.109	3.62E-206	0 GSDME
6.64E-89	0.434896145	0.657	0.458	2.13E-84	0 GALNT18
2.55E-92	0.434340766	0.438	0.259	8.18E-88	0 AC009690.1
9.85E-96	0.431862155	0.501	0.299	3.16E-91	0 UPP2
1.02E-98	0.42822465	0.536	0.347	3.29E-94	0 CMC1
2.29E-145	0.427507375	0.384	0.173	7.36E-141	0 AC016705.2
6.53E-153	0.426840564	0.97	0.811	2.10E-148	0 BICC1
1.19E-90	0.426636497	0.63	0.454	3.81E-86	0 SLC35F5
1.03E-126	0.426597285	0.519	0.292	3.30E-122	0 DNASE1
6.93E-87	0.425677351	0.637	0.455	2.22E-82	0 CDK8
2.82E-142	0.425600678	0.307	0.127	9.07E-138	0 DNAJC25
1.26E-93	0.42557366	0.78	0.597	4.05E-89	0 DNAH14
1.25E-108	0.422167873	0.348	0.174	4.01E-104	0 FDX1
4.18E-84	0.421819625	0.287	0.147	1.34E-79	0 PRDM10
2.35E-99	0.419968137	0.495	0.305	7.54E-95	0 LRP6
1.04E-90	0.419597392	0.257	0.119	3.36E-86	0 SNAPC1
2.47E-200	0.418172603	0.65	0.317	7.94E-196	0 LINC01606
1.22E-69	0.417836193	0.532	0.357	3.93E-65	0 PLXNB1
6.30E-17	0.417791369	0.477	0.412	2.02E-12	0 LHFPL3
3.13E-98	0.417720775	0.516	0.326	1.00E-93	0 AHCYL1
5.59E-54	0.417391001	0.448	0.3	1.79E-49	0 GNGT1
1.73E-101	0.417251662	0.651	0.459	5.55E-97	0 OGDH
4.08E-84	0.416820386	0.705	0.523	1.31E-79	0 KIAA1958
6.38E-103	0.415941049	0.74	0.526	2.05E-98	0 CYFIP2
5.19E-72	0.41511213	0.534	0.379	1.67E-67	0 RNF10
3.07E-85	0.412565566	0.835	0.646	9.87E-81	0 PPARGC1A
7.21E-117	0.412505893	0.441	0.241	2.31E-112	0 SLC36A4
1.37E-97	0.41207473	0.636	0.431	4.39E-93	0 AC245297.3
2.86E-120	0.411900895	0.458	0.242	9.19E-116	0 PANTR1
1.39E-70	0.409391796	0.855	0.725	4.48E-66	0 OXR1
2.04E-103	0.408334543	0.535	0.333	6.57E-99	0 GABARAPL1
4.44E-134	0.408318556	0.333	0.145	1.43E-129	0 JAG1
5.91E-112	0.407769002	0.615	0.391	1.90E-107	0 BACH2
2.39E-162	0.405293701	0.311	0.118	7.66E-158	0 MFSD4A
5.25E-106	0.403675776	0.389	0.206	1.69E-101	0 HHAT
2.11E-97	0.400619753	0.46	0.278	6.78E-93	0 PLA2G12A
5.53E-87	0.399955081	0.605	0.424	1.77E-82	0 PREPL
0	0.39926044	1	1	0	0 MALAT1
1.22E-89	0.398892911	0.572	0.388	3.90E-85	0 PPM1B
2.87E-98	0.398596785	0.893	0.691	9.21E-94	0 ADAMTS9-AS2
7.60E-80	0.398473353	0.652	0.478	2.44E-75	0 CBR4
6.67E-86	0.397880385	0.706	0.559	2.14E-81	0 CLASP2
1.05E-48	0.397354714	0.391	0.263	3.37E-44	0 GPR39

4.82E-79	0.39685746	0.758	0.602	1.55E-74	0 AUH
1.47E-118	0.395303531	0.28	0.119	4.71E-114	0 ARSDP1
1.98E-99	0.39309566	0.318	0.157	6.37E-95	0 SLC25A30
9.52E-68	0.392528526	0.566	0.403	3.06E-63	0 STXBP4
2.45E-122	0.392317132	0.313	0.138	7.86E-118	0 CCDC148-AS1
5.56E-80	0.392157491	0.607	0.426	1.79E-75	0 LRRC37A4P
3.33E-68	0.391483988	0.569	0.415	1.07E-63	0 C1QTNF3-AMAC
3.01E-93	0.391407091	0.776	0.575	9.68E-89	0 ADAMTS9
4.99E-66	0.389421135	0.569	0.401	1.60E-61	0 ERICH1
1.56E-115	0.389076257	0.372	0.187	5.00E-111	0 AC036214.3
4.88E-75	0.38825126	0.648	0.477	1.57E-70	0 PAWR
3.30E-118	0.388082089	0.506	0.275	1.06E-113	0 VAX2
2.01E-71	0.387627978	0.74	0.57	6.46E-67	0 PDE7B
3.67E-79	0.387499193	0.786	0.613	1.18E-74	0 CLMN
1.27E-104	0.386870559	0.431	0.237	4.09E-100	0 MSH2
1.49E-83	0.385092109	0.853	0.735	4.80E-79	0 FBXL17
1.35E-129	0.382098875	0.295	0.123	4.33E-125	0 NEXN
1.45E-95	0.381848528	0.37	0.204	4.65E-91	0 CPNE3
8.89E-81	0.381689793	0.609	0.428	2.86E-76	0 NFYC
2.27E-98	0.381566489	0.687	0.465	7.30E-94	0 MFHAS1
1.31E-93	0.379663661	0.872	0.706	4.21E-89	0 DANT2
1.72E-88	0.37609058	0.562	0.376	5.52E-84	0 TP53BP1
2.42E-83	0.375588169	0.743	0.583	7.79E-79	0 ZNF518A
1.77E-76	0.375247505	0.492	0.322	5.69E-72	0 ACSL3
5.61E-92	0.373477839	0.269	0.126	1.80E-87	0 ANXA3
3.45E-76	0.372133273	0.537	0.364	1.11E-71	0 TTC7B
2.29E-79	0.371971043	0.59	0.419	7.35E-75	0 SECISBP2L
6.41E-63	0.371036267	0.542	0.386	2.06E-58	0 MAGED1
6.78E-106	0.370441333	0.416	0.229	2.18E-101	0 AC083843.2
5.08E-163	0.370381045	0.255	0.085	1.63E-158	0 PLAC4
3.02E-79	0.369177051	0.664	0.481	9.70E-75	0 PTPN3
8.60E-84	0.368636219	0.533	0.353	2.76E-79	0 OIP5-AS1
3.55E-78	0.368088146	0.676	0.502	1.14E-73	0 ATP6V1H
1.00E-68	0.36730119	0.688	0.526	3.22E-64	0 HIBADH
1.99E-102	0.367248322	0.798	0.591	6.38E-98	0 PRKD1
5.94E-115	0.367047418	0.72	0.47	1.91E-110	0 HIP1
1.16E-82	0.364739365	0.748	0.55	3.73E-78	0 FAM160A1
3.12E-129	0.363624743	0.292	0.121	1.00E-124	0 EPB41L4B
1.52E-93	0.363085008	0.452	0.264	4.87E-89	0 SGMS2
6.95E-67	0.361656824	0.312	0.174	2.23E-62	0 MBOAT1
2.38E-179	0.3608036	0.639	0.332	7.63E-175	0 MYO1B
1.49E-82	0.359362238	0.821	0.672	4.79E-78	0 MTR
2.65E-22	0.359027373	0.327	0.248	8.53E-18	0 SPON2
1.25E-75	0.358682574	0.466	0.302	4.01E-71	0 ABCB7
1.35E-81	0.3583287	0.884	0.792	4.33E-77	0 SNHG14
1.79E-94	0.358094504	0.341	0.176	5.75E-90	0 RAP2C
1.13E-83	0.357791137	0.437	0.257	3.62E-79	0 NUDT4
2.33E-74	0.357483302	0.493	0.329	7.49E-70	0 ATP5F1C
3.69E-87	0.35731288	0.542	0.364	1.19E-82	0 SLC25A27
7.99E-74	0.354318562	0.632	0.471	2.57E-69	0 SNX9
1.15E-118	0.35396439	0.923	0.817	3.68E-114	0 PTPRG

1.65E-108	0.35248208	0.868	0.645	5.29E-104	0 NHS
1.90E-79	0.351620291	0.447	0.277	6.11E-75	0 DNAJC11
1.30E-116	0.351054674	0.328	0.152	4.18E-112	0 FZD4
4.04E-94	0.349672255	0.456	0.263	1.30E-89	0 TRMT9B
9.21E-70	0.349293494	0.649	0.487	2.96E-65	0 ARFGEF2
3.84E-89	0.346525567	0.281	0.136	1.23E-84	0 GYG2P1
3.15E-69	0.3460752	0.671	0.514	1.01E-64	0 RIC1
9.83E-67	0.345529127	0.602	0.435	3.16E-62	0 ZNF586
2.76E-56	0.345164508	0.765	0.622	8.88E-52	0 CRADD
1.58E-66	0.344350196	0.538	0.378	5.08E-62	0 LNPEP
3.04E-82	0.343328167	0.479	0.296	9.76E-78	0 Z98752.3
9.70E-85	0.343025879	0.629	0.405	3.11E-80	0 CPM
7.51E-66	0.342720728	0.64	0.484	2.41E-61	0 NAP1L4
2.93E-92	0.340593742	0.448	0.257	9.41E-88	0 SORL1
4.88E-107	0.338628841	0.602	0.376	1.57E-102	0 MYO5A
3.25E-55	0.338114924	0.53	0.383	1.04E-50	0 LRRC28
7.25E-100	0.338063452	0.73	0.478	2.33E-95	0 SKAP1
2.15E-78	0.337664319	0.252	0.122	6.89E-74	0 KLRD1
1.84E-32	0.337522878	0.359	0.259	5.89E-28	0 AC092535.4
3.92E-136	0.337237465	0.252	0.092	1.26E-131	0 PLCD4
3.15E-56	0.336746855	0.579	0.422	1.01E-51	0 CCDC171
1.62E-63	0.336740861	0.599	0.437	5.21E-59	0 BMPR1A
3.44E-47	0.336684696	0.557	0.419	1.11E-42	0 SUCLG2-AS1
4.07E-52	0.336573777	0.702	0.563	1.31E-47	0 SUPT3H
1.21E-66	0.335987194	0.437	0.28	3.88E-62	0 RTN3
1.16E-86	0.335848919	0.366	0.2	3.72E-82	0 AL132780.1
1.50E-103	0.335400126	0.768	0.545	4.81E-99	0 DCDC2
1.89E-77	0.3353362	0.514	0.346	6.07E-73	0 UHRF2
2.46E-84	0.335087292	0.42	0.247	7.89E-80	0 BMERB1
8.27E-37	0.334791491	0.404	0.291	2.66E-32	0 LINC02694
1.23E-123	0.334377643	0.297	0.127	3.96E-119	0 HSBP1L1
1.25E-63	0.333976218	0.718	0.55	4.01E-59	0 ZNF704
9.55E-74	0.332684397	0.601	0.424	3.07E-69	0 SLC25A16
1.85E-61	0.332334998	0.508	0.356	5.93E-57	0 SMIM8
6.75E-77	0.330748965	0.643	0.444	2.17E-72	0 PRR5-ARHGAP8
2.79E-72	0.330325111	0.51	0.334	8.95E-68	0 SCML1
5.39E-81	0.330226003	0.42	0.25	1.73E-76	0 GSTO2
1.46E-73	0.330070789	0.79	0.659	4.67E-69	0 MAP4K3
1.45E-54	0.329791361	0.656	0.51	4.67E-50	0 MAP4K3-DT
2.27E-80	0.327670989	0.885	0.789	7.28E-76	0 SOX6
5.49E-113	0.327401382	0.353	0.166	1.76E-108	0 GAS6
2.14E-52	0.326892822	0.536	0.392	6.87E-48	0 MIPOL1
5.41E-83	0.326616017	0.351	0.19	1.74E-78	0 MAP3K15
2.74E-69	0.3265603	0.765	0.613	8.79E-65	0 AC027644.4
8.90E-72	0.326012785	0.605	0.442	2.86E-67	0 DHX15
8.95E-63	0.325408276	0.657	0.499	2.87E-58	0 AC068205.2
3.64E-10	0.325212764	0.263	0.21	1.17E-05	0 CALB1
3.13E-83	0.324858542	0.27	0.132	1.01E-78	0 ANO5
6.70E-41	0.324169659	0.635	0.512	2.15E-36	0 UBA6-AS1
1.26E-57	0.323030657	0.398	0.255	4.05E-53	0 EPM2A
1.03E-84	0.322470275	0.383	0.213	3.32E-80	0 OVOL2

1.59E-63	0.322036578	0.601	0.449	5.10E-59	0 PIAS2
1.54E-96	0.321128919	0.385	0.205	4.93E-92	0 ARRDC3
4.78E-70	0.321120652	0.298	0.161	1.53E-65	0 PRTG
1.60E-98	0.320928633	0.363	0.189	5.15E-94	0 BTBD3
1.27E-99	0.319806317	0.287	0.131	4.09E-95	0 RAB31
2.31E-60	0.319092054	0.586	0.43	7.43E-56	0 VPS50
4.85E-68	0.318590981	0.462	0.298	1.56E-63	0 RPS6KA6
3.90E-32	0.318296125	0.357	0.252	1.25E-27	0 LINC01266
9.64E-61	0.317861555	0.472	0.316	3.09E-56	0 SPRED1
2.91E-38	0.316438191	0.791	0.72	9.33E-34	0 GLS
4.42E-90	0.315640943	0.557	0.346	1.42E-85	0 TMEM72-AS1
1.90E-49	0.314489283	0.529	0.392	6.10E-45	0 CDC14B
2.45E-53	0.313017875	0.691	0.555	7.86E-49	0 TLK1
3.27E-63	0.312420096	0.583	0.425	1.05E-58	0 SLC25A36
1.02E-79	0.312379945	0.275	0.137	3.29E-75	0 CA2
2.81E-63	0.312055887	0.355	0.213	9.03E-59	0 OSBP2
7.45E-52	0.311151303	0.521	0.375	2.39E-47	0 OXNAD1
3.39E-56	0.310951838	0.554	0.393	1.09E-51	0 TPD52
1.88E-143	0.31056618	0.765	0.476	6.03E-139	0 NAV2
2.89E-61	0.31049507	0.42	0.272	9.28E-57	0 DSTN
1.89E-83	0.309802447	0.324	0.172	6.08E-79	0 CARNMT1
4.69E-53	0.309497346	0.622	0.47	1.51E-48	0 SLC44A3-AS1
7.35E-55	0.309357599	0.405	0.267	2.36E-50	0 SETDB2
3.41E-57	0.30918606	0.344	0.212	1.09E-52	0 REST
5.43E-98	0.308873155	0.35	0.178	1.74E-93	0 SEPTIN6
1.87E-119	0.308824224	0.32	0.138	6.02E-115	0 TFAP2B
7.79E-80	0.307548453	0.617	0.417	2.50E-75	0 RGL3
6.40E-57	0.307359077	0.416	0.27	2.06E-52	0 TMEM164
2.42E-60	0.306584668	0.573	0.413	7.78E-56	0 ATP2C1
3.81E-98	0.306169497	0.372	0.191	1.22E-93	0 RGS3
4.64E-61	0.303966239	0.566	0.407	1.49E-56	0 CDK12
2.23E-25	0.303865985	0.726	0.636	7.18E-21	0 SIK2
1.53E-73	0.303508316	0.434	0.268	4.91E-69	0 PWWP2A
5.90E-76	0.302980184	0.29	0.149	1.89E-71	0 STK32A
9.52E-88	0.302895535	0.453	0.261	3.06E-83	0 MTURN
2.80E-50	0.302549859	0.735	0.599	9.00E-46	0 CHCHD3
4.47E-46	0.302513767	0.705	0.585	1.44E-41	0 CTBP2
1.15E-56	0.302460653	0.446	0.298	3.68E-52	0 BCL9
1.25E-70	0.302339758	0.477	0.311	4.00E-66	0 MFF
1.84E-62	0.302091813	0.463	0.308	5.91E-58	0 IP6K1
8.28E-48	0.300207501	0.591	0.448	2.66E-43	0 RNF130
3.69E-41	0.299898138	0.41	0.293	1.18E-36	0 APLP2
1.22E-50	0.299806986	0.742	0.602	3.91E-46	0 AHI1
1.01E-47	0.298337302	0.776	0.659	3.23E-43	0 PDE8A
1.58E-55	0.298275213	0.468	0.316	5.08E-51	0 CKMT2-AS1
2.04E-68	0.298087132	0.891	0.813	6.54E-64	0 PCCA
8.31E-83	0.297945397	0.551	0.339	2.67E-78	0 GRHL2
1.21E-59	0.297580842	0.506	0.353	3.90E-55	0 ZC3H13
1.55E-50	0.297536262	0.636	0.496	4.99E-46	0 DENND1B
7.43E-68	0.296719547	0.649	0.46	2.39E-63	0 GNG12-AS1
5.76E-70	0.29615916	0.384	0.231	1.85E-65	0 TSG101

7.44E-62	0.295344876	0.414	0.266	2.39E-57	0 HOOK1
9.05E-55	0.293973853	0.717	0.584	2.91E-50	0 TUT4
1.22E-54	0.293763491	0.622	0.473	3.92E-50	0 SNRPN
1.36E-30	0.293672082	0.568	0.451	4.38E-26	0 ANKRD36B
9.46E-80	0.293352973	0.682	0.491	3.04E-75	0 TANC1
8.57E-39	0.293052485	0.413	0.287	2.75E-34	0 AC092683.1
5.34E-62	0.292891941	0.683	0.501	1.72E-57	0 DPY19L2
9.13E-78	0.292575538	0.686	0.492	2.93E-73	0 PDE4DIP
2.75E-66	0.292415068	0.375	0.227	8.83E-62	0 DDAH1
2.04E-55	0.29066475	0.66	0.514	6.56E-51	0 TRA2A
3.39E-61	0.290318291	0.531	0.37	1.09E-56	0 ZFYVE9
6.60E-61	0.289694815	0.437	0.286	2.12E-56	0 HSPA4L
1.23E-83	0.289592401	0.538	0.328	3.95E-79	0 CSGALNACT1
6.51E-50	0.289233353	0.865	0.789	2.09E-45	0 SIK3
1.29E-56	0.288241207	0.566	0.41	4.14E-52	0 SMURF2
1.60E-64	0.28802273	0.396	0.248	5.15E-60	0 MRPL19
7.17E-68	0.287841892	0.499	0.323	2.30E-63	0 TMMEM116
1.31E-44	0.287834788	0.635	0.501	4.20E-40	0 TAOK3
7.51E-62	0.287807115	0.43	0.277	2.41E-57	0 AGL
1.99E-49	0.287305359	0.549	0.411	6.39E-45	0 LMBRD1
3.87E-76	0.285720592	0.268	0.135	1.24E-71	0 TSPOAP1-AS1
4.67E-64	0.285646059	0.37	0.225	1.50E-59	0 UBA1
7.08E-50	0.285371813	0.629	0.488	2.27E-45	0 SLC30A9
6.15E-59	0.285220958	0.519	0.361	1.97E-54	0 UQCRC2
5.38E-39	0.285118377	0.443	0.318	1.73E-34	0 PLS3
3.86E-78	0.284949551	0.76	0.563	1.24E-73	0 CPEB3
8.25E-36	0.28404214	0.496	0.375	2.65E-31	0 AL589935.1
1.19E-58	0.283843318	0.464	0.309	3.82E-54	0 HECTD2
2.36E-66	0.283814459	0.348	0.201	7.59E-62	0 ZDHHC13
5.64E-46	0.28352776	0.508	0.371	1.81E-41	0 FSD1L
4.56E-54	0.283416136	0.501	0.352	1.47E-49	0 CCDC66
1.67E-46	0.282963649	0.331	0.21	5.37E-42	0 PRKAR1B
3.42E-28	0.282761702	0.417	0.324	1.10E-23	0 TTN-AS1
7.25E-60	0.282238298	0.672	0.494	2.33E-55	0 LLGL2
1.06E-67	0.281584694	0.781	0.613	3.41E-63	0 THRB
1.61E-54	0.280965269	0.442	0.292	5.16E-50	0 ASXL3
4.91E-50	0.280945297	0.518	0.372	1.58E-45	0 CPT1A
3.75E-71	0.279586905	0.399	0.234	1.20E-66	0 AC018730.1
8.10E-62	0.279132556	0.373	0.228	2.60E-57	0 ZDHHC3
3.62E-118	0.278800075	0.269	0.108	1.16E-113	0 GNB4
5.82E-45	0.278460752	0.612	0.47	1.87E-40	0 ZNF44
1.71E-80	0.277923617	0.338	0.181	5.48E-76	0 TBC1D24
1.81E-54	0.277423017	0.759	0.629	5.82E-50	0 PHLDB2
1.05E-65	0.276278089	0.328	0.186	3.36E-61	0 GOLM1
3.59E-41	0.27508348	0.737	0.617	1.15E-36	0 CAMKMT
3.40E-53	0.27439319	0.616	0.468	1.09E-48	0 FXR1
8.08E-53	0.27434751	0.723	0.544	2.60E-48	0 DST
8.16E-63	0.274198383	0.332	0.189	2.62E-58	0 PPFIA2
1.43E-80	0.273626106	0.646	0.413	4.60E-76	0 PRDM16
2.49E-75	0.27350485	0.307	0.162	7.98E-71	0 ESRP1
3.68E-75	0.273011747	0.335	0.186	1.18E-70	0 TRMT13

8.38E-52	0.272563701	0.597	0.452	2.69E-47	0 SF3B1
1.69E-62	0.272324963	0.339	0.199	5.42E-58	0 SMS
2.59E-119	0.271192841	0.613	0.364	8.33E-115	0 INPP4B
1.85E-66	0.270531812	0.322	0.184	5.94E-62	0 CISD1
3.11E-28	0.270053253	0.445	0.344	9.98E-24	0 ATP2A2
3.30E-66	0.269818619	0.389	0.235	1.06E-61	0 SIN3B
3.19E-45	0.269305441	0.53	0.391	1.02E-40	0 CDYL
4.10E-69	0.269206782	0.283	0.152	1.32E-64	0 PPP1R42
1.11E-20	0.269193605	0.625	0.532	3.57E-16	0 TULP4
1.72E-47	0.269144276	0.618	0.463	5.52E-43	0 STRBP
9.04E-57	0.26906257	0.437	0.289	2.90E-52	0 FEZ2
1.34E-57	0.268465108	0.355	0.213	4.30E-53	0 RNF24
4.92E-82	0.268318904	0.636	0.435	1.58E-77	0 TXNIP
9.34E-57	0.267896647	0.435	0.285	3.00E-52	0 ZNRF2P2
1.44E-60	0.267340905	0.776	0.596	4.61E-56	0 SULT1C2
1.67E-47	0.267065496	0.492	0.354	5.38E-43	0 KLHL24
8.23E-47	0.266689334	0.677	0.539	2.64E-42	0 AC138409.2
7.12E-58	0.266681347	0.399	0.249	2.29E-53	0 SGK2
6.62E-47	0.265969153	0.65	0.505	2.13E-42	0 AC124312.1
2.64E-45	0.265349998	0.414	0.281	8.49E-41	0 KIF9-AS1
5.05E-47	0.264934766	0.282	0.169	1.62E-42	0 HLF
7.54E-54	0.264755824	0.366	0.226	2.42E-49	0 COL6A1
7.45E-61	0.263820345	0.48	0.311	2.39E-56	0 CFAP221
2.47E-47	0.263463244	0.383	0.256	7.92E-43	0 PPTC7
6.52E-45	0.263306688	0.502	0.365	2.10E-40	0 KANSL3
1.12E-69	0.262875578	0.646	0.456	3.58E-65	0 AC241952.1
6.52E-64	0.262800584	0.298	0.165	2.10E-59	0 NFE2L3
1.88E-52	0.262651972	0.391	0.257	6.04E-48	0 FASTKD1
2.13E-44	0.262492547	0.499	0.366	6.83E-40	0 IMMP1L
1.26E-55	0.262468834	0.392	0.248	4.04E-51	0 SLC44A3
1.23E-72	0.262320906	0.263	0.131	3.96E-68	0 ADCY5
5.43E-53	0.262248097	0.252	0.141	1.74E-48	0 GPRC5D-AS1
1.32E-70	0.260524685	0.333	0.182	4.22E-66	0 FAM184A
1.83E-42	0.260255223	0.671	0.528	5.87E-38	0 CBFA2T2
2.21E-64	0.259570319	0.315	0.176	7.09E-60	0 NR2F1-AS1
4.70E-34	0.258860782	0.286	0.188	1.51E-29	0 CDC37L1
1.15E-61	0.258384624	0.31	0.176	3.70E-57	0 PALM
3.89E-52	0.258181424	0.328	0.201	1.25E-47	0 RNF213-AS1
2.50E-60	0.258174943	0.358	0.218	8.02E-56	0 GCFC2
1.90E-140	0.257553418	0.472	0.23	6.11E-136	0 GS1-24F4.2
2.72E-59	0.257532963	0.311	0.182	8.72E-55	0 ACP6
1.09E-63	0.256025199	0.744	0.556	3.49E-59	0 ASAP2
4.11E-48	0.254604838	0.44	0.304	1.32E-43	0 TMEM161B
1.01E-38	0.254580744	0.686	0.564	3.25E-34	0 SPIN1
6.26E-51	0.254529855	0.915	0.847	2.01E-46	0 RERE
3.95E-36	0.253878355	0.522	0.4	1.27E-31	0 WDR27
1.65E-33	0.253277127	0.467	0.35	5.31E-29	0 LINC01184
5.70E-54	0.252630185	0.449	0.302	1.83E-49	0 ACTR3B
7.33E-49	0.25183746	0.374	0.244	2.35E-44	0 TFB1M
2.94E-68	0.251519089	0.805	0.658	9.45E-64	0 SHROOM3
3.70E-36	0.2509947	0.698	0.587	1.19E-31	0 TENT2

6.37E-71	0.250529816	0.557	0.361	2.05E-66	0 EFHD1
1.53E-67	0.250206131	0.268	0.137	4.92E-63	0 PLCZ1
1.27E-64	0.250028003	0.327	0.187	4.09E-60	0 RAVER2
0	2.754431751	0.892	0.465	0	1 SLC8A1
0	2.653966278	0.804	0.197	0	1 LINC01098
0	2.592955242	0.765	0.283	0	1 SLC8A1-AS1
0	2.115043258	0.866	0.396	0	1 HSD11B2
5.86E-270	2.015852698	0.499	0.201	1.88E-265	1 SNTG1
0	2.014252091	0.575	0.098	0	1 SCNN1G
6.55E-302	1.864945297	0.814	0.67	2.10E-297	1 NFE2L2
0	1.849905351	0.686	0.149	0	1 PWRN1
0	1.799116877	0.923	0.672	0	1 CADPS2
0	1.784836466	0.661	0.161	0	1 APCDD1L-DT
0	1.759750586	0.988	0.743	0	1 AC019197.1
0	1.696126916	0.76	0.4	0	1 TMTC2
0	1.655903693	0.848	0.376	0	1 PIK3C2G
0	1.525199503	0.768	0.343	0	1 SOX5
4.81E-243	1.518596737	0.474	0.191	1.55E-238	1 CALB1
0	1.488886543	0.852	0.416	0	1 TEX41
0	1.468792887	0.433	0.077	0	1 SCNN1B
0	1.447109093	0.581	0.259	0	1 RALBP1
0	1.406323857	0.796	0.426	0	1 SCN2A
0	1.402687577	0.548	0.165	0	1 GATA3
0	1.399660184	0.752	0.31	0	1 BMPR1B
0	1.388237159	0.882	0.519	0	1 GRIP1
0	1.386207654	0.414	0.094	0	1 SLC9A4
1.31E-218	1.283092971	0.41	0.148	4.22E-214	1 KCNIP1
2.50E-296	1.261029756	0.722	0.421	8.04E-292	1 C11orf80
3.13E-222	1.259333436	0.404	0.149	1.01E-217	1 TMEM178A
5.90E-179	1.243912778	0.413	0.179	1.89E-174	1 ARG2
0	1.243388048	0.999	0.971	0	1 PDE4D
1.22E-267	1.218754468	0.653	0.353	3.92E-263	1 CRYBG1
7.67E-158	1.213175107	0.424	0.201	2.46E-153	1 B4GALNT3
2.32E-300	1.210045111	0.593	0.249	7.46E-296	1 NRCAM
0	1.20675411	0.881	0.586	0	1 TRPM3
5.04E-228	1.191510964	0.812	0.64	1.62E-223	1 RAD51B
0	1.18169174	0.758	0.378	0	1 MPPE2
3.07E-200	1.179504839	0.538	0.263	9.86E-196	1 MID1
0	1.175615561	0.896	0.691	0	1 FRAS1
3.52E-216	1.173376513	0.648	0.371	1.13E-211	1 ADAMTS16
1.87E-268	1.172075179	0.789	0.564	6.00E-264	1 LAMB1
4.74E-240	1.162801694	0.704	0.417	1.52E-235	1 PRDM16
0	1.1456685	0.352	0.086	0	1 HMGCS2
0	1.144757707	0.908	0.683	0	1 WSB1
9.51E-253	1.140757487	0.791	0.553	3.06E-248	1 DCDC2
3.29E-224	1.128816548	0.738	0.463	1.06E-219	1 TOX3
1.07E-172	1.123967812	0.405	0.168	3.42E-168	1 HSPA1B
9.52E-185	1.12260357	0.671	0.486	3.06E-180	1 EYA3
6.30E-163	1.118229683	0.563	0.328	2.02E-158	1 SLC38A1
0	1.116567484	0.953	0.813	0	1 COBL1
1.82E-146	1.105923575	0.479	0.247	5.84E-142	1 KITLG

1.78E-193	1.093519895	0.36	0.124	5.73E-189	1 PCDH7
0	1.080748163	0.899	0.599	0	1 PRKG1
3.42E-158	1.079245117	0.391	0.169	1.10E-153	1 HUNK
1.08E-293	1.078665671	0.922	0.663	3.45E-289	1 KAZN
1.95E-148	1.078098687	0.407	0.187	6.28E-144	1 FSTL4
1.07E-191	1.075112334	0.508	0.238	3.42E-187	1 MSR1
2.37E-88	1.073512384	0.461	0.296	7.61E-84	1 ATP1B3
4.68E-21	1.070389923	0.254	0.189	1.50E-16	1 ZNF331
3.29E-230	1.064309166	0.432	0.157	1.06E-225	1 AC011586.1
3.36E-168	1.057551062	0.628	0.401	1.08E-163	1 KCNQ1
1.45E-118	1.05546874	0.529	0.347	4.66E-114	1 STIM2
1.89E-221	1.042086419	0.813	0.651	6.06E-217	1 PTPN13
7.14E-205	1.038927583	0.531	0.264	2.29E-200	1 SCN3A
1.66E-97	1.031820282	0.326	0.154	5.32E-93	1 EYA4
1.40E-156	1.020297009	0.617	0.394	4.49E-152	1 CDK6
5.53E-60	1.016424698	0.434	0.309	1.78E-55	1 SLC45A4
4.40E-160	1.014051748	0.565	0.337	1.41E-155	1 SGPP1
2.68E-153	1.009683823	0.475	0.241	8.60E-149	1 PDE3B
1.75E-87	1.008965308	0.459	0.29	5.63E-83	1 LINC02694
6.22E-184	1.004773386	0.305	0.098	2.00E-179	1 KCNK13
5.08E-179	1.001976445	0.778	0.582	1.63E-174	1 PRKAG2
1.56E-153	0.989420556	0.537	0.3	5.00E-149	1 FAM110B
3.75E-272	0.984441355	0.92	0.773	1.20E-267	1 GLIS3
4.34E-97	0.982507296	0.495	0.334	1.39E-92	1 MAP3K21
1.00E-305	0.977663407	0.925	0.763	3.21E-301	1 ARL15
9.08E-155	0.971046012	0.498	0.271	2.91E-150	1 ADAM22
5.23E-191	0.970375486	0.539	0.253	1.68E-186	1 FYB2
2.12E-183	0.968608157	0.642	0.394	6.82E-179	1 FAM171A1
6.89E-114	0.9669628	0.421	0.228	2.21E-109	1 PIGQ
2.86E-150	0.966791809	0.722	0.525	9.20E-146	1 ABTB2
5.78E-99	0.955997348	0.713	0.563	1.86E-94	1 RALYL
3.89E-205	0.943507209	0.381	0.136	1.25E-200	1 TBX2
1.06E-83	0.943249545	0.268	0.126	3.39E-79	1 IL1RAPL1
3.67E-224	0.943082668	0.871	0.674	1.18E-219	1 AGLB4
3.11E-134	0.939134301	0.572	0.362	9.99E-130	1 CDH16
5.78E-138	0.927297889	0.37	0.161	1.86E-133	1 ANGPT1
1.63E-162	0.922987073	0.444	0.207	5.22E-158	1 PRDM16-DT
2.86E-114	0.912282454	0.596	0.402	9.18E-110	1 LHFPL3
3.58E-59	0.906323436	0.475	0.339	1.15E-54	1 ST6GAL1
3.17E-172	0.900745795	0.74	0.565	1.02E-167	1 ASAP2
1.98E-161	0.89780142	0.438	0.2	6.35E-157	1 RIMBP2
2.03E-182	0.897633454	0.747	0.501	6.50E-178	1 FREM1
9.90E-136	0.889950728	0.678	0.509	3.18E-131	1 DPY19L2
5.94E-196	0.882117962	0.825	0.649	1.91E-191	1 LIMCH1
3.59E-164	0.881786075	0.469	0.22	1.15E-159	1 EMX1
1.06E-206	0.881574407	0.339	0.109	3.40E-202	1 BARX2
5.75E-188	0.872705802	0.512	0.236	1.85E-183	1 RHBG
4.54E-104	0.864170137	0.45	0.259	1.46E-99	1 ZNF208
1.77E-84	0.861532632	0.387	0.225	5.68E-80	1 VEPH1
1.57E-79	0.859263089	0.452	0.295	5.05E-75	1 SUSD1
2.37E-173	0.858573958	0.884	0.786	7.60E-169	1 RBPMS

2.05E-109	0.858060312	0.528	0.347	6.59E-105	1 HIP1R
1.13E-115	0.852015149	0.52	0.306	3.62E-111	1 CCDC178
4.80E-40	0.847766246	0.266	0.161	1.54E-35	1 RGS6
2.98E-112	0.844400727	0.36	0.178	9.57E-108	1 IQUB
4.64E-131	0.844303937	0.652	0.459	1.49E-126	1 SPIRE1
2.48E-127	0.835933921	0.287	0.108	7.96E-123	1 AQP2
7.93E-198	0.83389003	0.299	0.089	2.55E-193	1 AL512662.1
4.45E-201	0.83250756	0.285	0.08	1.43E-196	1 FGD3
4.53E-128	0.830741614	0.458	0.244	1.46E-123	1 AC022414.1
1.31E-65	0.829609527	0.389	0.241	4.20E-61	1 KIF26B
4.69E-109	0.821759315	0.341	0.163	1.51E-104	1 INPP5J
2.92E-209	0.816507603	0.899	0.782	9.36E-205	1 NR3C2
1.17E-246	0.813465849	0.978	0.762	3.77E-242	1 MECOM
1.25E-96	0.813360385	0.36	0.185	4.01E-92	1 PFKFB3
1.05E-60	0.812215909	0.487	0.367	3.37E-56	1 VAV2
5.25E-114	0.808668027	0.382	0.188	1.69E-109	1 RERGL
4.78E-92	0.808020613	0.55	0.391	1.54E-87	1 MYO5A
5.42E-122	0.802806321	0.348	0.159	1.74E-117	1 PLPP4
1.14E-110	0.797911959	0.695	0.542	3.65E-106	1 STARD13
9.56E-99	0.792158658	0.59	0.397	3.07E-94	1 SCIN
9.37E-100	0.788987889	0.27	0.115	3.01E-95	1 HS6ST1
1.87E-88	0.782702597	0.58	0.436	5.99E-84	1 HDAC4
2.35E-68	0.782251562	0.629	0.516	7.56E-64	1 PAX8
1.59E-107	0.76687379	0.622	0.461	5.12E-103	1 HOXD3
1.77E-98	0.766469602	0.687	0.545	5.69E-94	1 STK33
2.68E-123	0.749821873	0.395	0.196	8.60E-119	1 SLC38A11
2.54E-101	0.749397261	0.44	0.244	8.17E-97	1 GS1-24F4.2
1.89E-159	0.745655284	0.62	0.347	6.07E-155	1 MYO1B
1.46E-103	0.741079303	0.266	0.109	4.70E-99	1 SLC9A2
6.40E-119	0.739243149	0.338	0.149	2.06E-114	1 AC011586.2
1.35E-86	0.734839404	0.374	0.206	4.32E-82	1 EML6
8.52E-77	0.734718438	0.564	0.425	2.74E-72	1 SRGAP3
6.94E-98	0.734621638	0.653	0.477	2.23E-93	1 HOXB3
1.20E-62	0.734043701	0.29	0.155	3.86E-58	1 LINC01482
4.80E-161	0.733701546	0.891	0.7	1.54E-156	1 ADAMTS9-AS2
1.23E-188	0.725507982	0.88	0.593	3.94E-184	1 KCNIP4
1.76E-140	0.724129038	0.817	0.671	5.64E-136	1 WNK1
1.22E-78	0.723069139	0.685	0.552	3.93E-74	1 MYO1E
1.13E-60	0.721878162	0.316	0.18	3.64E-56	1 BTG2
3.64E-80	0.721457589	0.271	0.124	1.17E-75	1 HSPA1A
1.79E-74	0.721272521	0.548	0.368	5.74E-70	1 PCDH9
3.58E-62	0.712111754	0.619	0.515	1.15E-57	1 PTBP3
3.00E-51	0.707789625	0.53	0.443	9.63E-47	1 MTMR10
6.58E-126	0.705597883	0.809	0.681	2.11E-121	1 FHOD3
1.08E-98	0.705390817	0.29	0.128	3.46E-94	1 RHCG
2.67E-74	0.703685823	0.358	0.205	8.57E-70	1 SYK
1.43E-60	0.697730355	0.679	0.643	4.59E-56	1 FRG1HP
3.01E-60	0.697649035	0.299	0.168	9.66E-56	1 SLC7A1
2.01E-138	0.695440683	0.294	0.109	6.44E-134	1 AFAP1L2
1.58E-146	0.693793809	0.279	0.097	5.08E-142	1 CWH43
1.42E-67	0.689605443	0.604	0.499	4.57E-63	1 MIR3936HG

5.65E-82	0.689274295	0.667	0.546	1.82E-77	1 TPST1
5.39E-45	0.687623833	0.274	0.158	1.73E-40	1 GDF15
8.24E-53	0.685796841	0.405	0.289	2.65E-48	1 SLC11A2
5.20E-60	0.684533128	0.46	0.333	1.67E-55	1 CASZ1
3.04E-84	0.683723708	0.592	0.443	9.78E-80	1 ARHGEF10L
6.00E-101	0.680839017	0.306	0.138	1.93E-96	1 PLCZ1
1.31E-56	0.677412712	0.526	0.408	4.22E-52	1 TMEM51
1.65E-65	0.677039719	0.489	0.354	5.29E-61	1 SPATS2
1.29E-68	0.677001255	0.27	0.135	4.13E-64	1 LHX1
3.24E-176	0.675024089	0.935	0.821	1.04E-171	1 BICC1
5.71E-93	0.670621675	0.806	0.768	1.83E-88	1 AFF1
5.40E-07	0.669429121	0.37	0.364	0.017355917	1 HSP90AA1
8.81E-77	0.66780989	0.442	0.264	2.83E-72	1 KCTD8
1.42E-94	0.665335802	0.252	0.105	4.56E-90	1 HOXD9
3.93E-56	0.662908582	0.554	0.428	1.26E-51	1 ALOX12P2
2.68E-65	0.661135593	0.581	0.463	8.60E-61	1 EPB41L1
4.78E-63	0.65791118	0.331	0.195	1.53E-58	1 SLC25A29
9.60E-38	0.657757955	0.313	0.217	3.08E-33	1 MAL2
1.86E-69	0.655652303	0.572	0.424	5.98E-65	1 KCNJ3
1.56E-52	0.643378304	0.361	0.239	5.01E-48	1 AIF1L
2.09E-88	0.64336485	0.647	0.474	6.73E-84	1 NDRG1
2.29E-89	0.640618073	0.281	0.128	7.37E-85	1 HMGA2
3.95E-64	0.639055144	0.633	0.502	1.27E-59	1 IVNS1ABP
4.21E-90	0.631307275	0.277	0.124	1.35E-85	1 PSMA1
8.00E-143	0.630117944	0.895	0.776	2.57E-138	1 NAALADL2
2.54E-67	0.625979095	0.394	0.241	8.14E-63	1 TRPV4
5.12E-94	0.624472802	0.546	0.336	1.64E-89	1 CSGALNACT1
4.76E-81	0.620700977	0.303	0.154	1.53E-76	1 RASGRP1
1.15E-41	0.620583626	0.428	0.311	3.69E-37	1 DUSP1
2.20E-32	0.620293349	0.344	0.254	7.07E-28	1 CHSY1
1.97E-43	0.620144793	0.51	0.398	6.34E-39	1 DPH6-DT
5.71E-74	0.612968804	0.779	0.738	1.83E-69	1 NFAT5
2.72E-57	0.612877409	0.599	0.501	8.75E-53	1 TANC2
1.46E-99	0.612179595	0.825	0.778	4.68E-95	1 SETBP1
4.06E-28	0.608592027	0.381	0.308	1.30E-23	1 KIZ
1.43E-62	0.60846981	0.312	0.175	4.58E-58	1 KCNS3
7.81E-34	0.607966163	0.393	0.3	2.51E-29	1 CYS1
2.48E-74	0.606727913	0.578	0.406	7.98E-70	1 COL4A5
4.36E-40	0.603340506	0.381	0.276	1.40E-35	1 PLEKHA2
3.18E-56	0.602692652	0.57	0.476	1.02E-51	1 ARHGEF35-AS1
7.55E-70	0.602369408	0.671	0.562	2.42E-65	1 ZNF704
1.39E-59	0.601914298	0.61	0.488	4.46E-55	1 MLLT3
2.86E-58	0.596130946	0.373	0.234	9.17E-54	1 NPAS2
3.97E-65	0.594843267	0.259	0.132	1.27E-60	1 SPTBN2
7.24E-30	0.594690484	0.356	0.264	2.32E-25	1 AC092535.4
3.88E-61	0.594263297	0.63	0.549	1.25E-56	1 TRAK1
6.84E-51	0.591647757	0.402	0.265	2.20E-46	1 KSR2
6.72E-25	0.58955026	0.982	0.987	2.16E-20	1 FP671120.4
5.42E-52	0.588367454	0.255	0.139	1.74E-47	1 FAM81A
9.89E-48	0.584843783	0.523	0.413	3.18E-43	1 GTF2IRD1
3.27E-44	0.584221003	0.457	0.336	1.05E-39	1 PAPP

6.38E-52	0.583024184	0.482	0.356	2.05E-47	1 GRHL2
1.26E-23	0.58181797	0.424	0.351	4.03E-19	1 RNLS
9.16E-79	0.581578836	0.573	0.411	2.94E-74	1 BICD1
1.74E-43	0.581246289	0.495	0.378	5.59E-39	1 SIM1
3.97E-53	0.57934648	0.683	0.622	1.27E-48	1 GAREM1
4.93E-73	0.578186977	0.746	0.617	1.58E-68	1 LINC02532
3.71E-67	0.577632122	0.63	0.515	1.19E-62	1 OPHN1
3.73E-56	0.572066922	0.472	0.331	1.20E-51	1 BLNK
7.27E-42	0.571567593	0.526	0.435	2.33E-37	1 RGL3
2.17E-45	0.56615688	0.507	0.384	6.96E-41	1 TOX
1.52E-36	0.56520765	0.398	0.294	4.89E-32	1 FOSL2
6.22E-55	0.558111944	0.735	0.709	2.00E-50	1 ERC1
1.25E-19	0.554232332	0.369	0.301	4.02E-15	1 ABCB1
3.29E-44	0.553761081	0.558	0.492	1.06E-39	1 DOCK7
1.19E-47	0.553558939	0.322	0.206	3.83E-43	1 HOXA3
1.19E-27	0.552602986	0.389	0.312	3.81E-23	1 DZIP3
1.45E-41	0.54606931	0.266	0.161	4.65E-37	1 NIPAL1
1.02E-10	0.543944034	0.428	0.407	3.27E-06	1 VPS37B
5.86E-62	0.541103672	0.292	0.157	1.88E-57	1 TPM4
1.15E-64	0.541003996	0.283	0.15	3.68E-60	1 TTC39C
3.33E-38	0.540858547	0.666	0.634	1.07E-33	1 AL138752.2
2.28E-40	0.537390841	0.396	0.284	7.33E-36	1 CDH1
5.01E-33	0.535798132	0.432	0.345	1.61E-28	1 AC092944.1
1.79E-87	0.531736135	0.867	0.81	5.73E-83	1 MAPK10
3.89E-52	0.530921875	0.633	0.535	1.25E-47	1 PAX2
3.54E-32	0.528257186	0.27	0.176	1.14E-27	1 AL365295.1
7.47E-19	0.527237547	0.359	0.292	2.40E-14	1 MAL
9.76E-25	0.527137395	0.405	0.33	3.13E-20	1 FLG-AS1
3.36E-18	0.526408394	0.32	0.252	1.08E-13	1 SPON2
5.02E-28	0.521602881	0.541	0.475	1.61E-23	1 FAAH2
1.15E-72	0.519788696	0.705	0.599	3.69E-68	1 CCDC198
1.78E-19	0.518601001	0.342	0.277	5.71E-15	1 PTGR1
2.37E-47	0.514559714	0.45	0.32	7.62E-43	1 ZNF98
3.56E-33	0.513585716	0.508	0.438	1.14E-28	1 MYH10
1.29E-61	0.512680187	0.818	0.783	4.14E-57	1 BCAS3
7.84E-63	0.512356917	0.261	0.135	2.52E-58	1 HOXD10
2.00E-41	0.509073702	0.776	0.711	6.43E-37	1 ATP1B1
3.87E-52	0.507036416	0.286	0.164	1.24E-47	1 ABO
1.88E-14	0.505968348	0.493	0.46	6.04E-10	1 FAM107B
1.11E-79	0.505319953	0.8	0.703	3.57E-75	1 PRKCA
3.19E-40	0.504796441	0.613	0.497	1.02E-35	1 LRP1B
1.69E-45	0.502409215	0.528	0.396	5.41E-41	1 CLCNKA
2.34E-24	0.501789309	0.388	0.311	7.52E-20	1 SH3BGRL
6.43E-50	0.500679204	0.288	0.168	2.07E-45	1 PRTG
1.55E-37	0.5006528	0.655	0.581	4.99E-33	1 WWC1
3.82E-32	0.500470438	0.998	0.998	1.23E-27	1 HFM1
9.82E-33	0.499031079	0.614	0.571	3.15E-28	1 SSH2
3.63E-18	0.494661517	0.405	0.355	1.17E-13	1 EMX2OS
9.62E-13	0.494156901	0.517	0.525	3.09E-08	1 RNF19A
9.24E-41	0.49387948	0.591	0.512	2.97E-36	1 C4orf19
1.51E-32	0.48928713	0.411	0.306	4.86E-28	1 GPRIN3

5.12E-36	0.488121375	0.522	0.425	1.64E-31	1 SCNN1A
5.07E-57	0.487336802	0.279	0.152	1.63E-52	1 TRERF1
3.99E-40	0.487078768	0.272	0.163	1.28E-35	1 COL4A6
5.13E-50	0.48560269	0.26	0.144	1.65E-45	1 LHX1-DT
2.80E-59	0.482127685	0.751	0.658	8.99E-55	1 PAX8-AS1
3.88E-21	0.480845802	0.494	0.44	1.25E-16	1 SEPTIN9
2.03E-30	0.480484331	0.574	0.524	6.51E-26	1 MAP4K3-DT
1.70E-37	0.477923366	0.612	0.527	5.46E-33	1 TLN2
6.36E-18	0.477509429	0.419	0.373	2.04E-13	1 BCAR3
1.37E-17	0.477465651	0.307	0.251	4.39E-13	1 PGM5
2.85E-44	0.476947316	0.275	0.164	9.14E-40	1 LHFPL3-AS2
5.53E-47	0.476812687	0.707	0.673	1.78E-42	1 MAP4K3
2.00E-29	0.471919073	0.447	0.358	6.41E-25	1 SYTL2
1.31E-55	0.471638137	0.55	0.373	4.21E-51	1 KCNJ15
7.62E-40	0.47076387	0.487	0.37	2.45E-35	1 GLDC
3.87E-31	0.470660629	0.466	0.389	1.24E-26	1 AC074386.1
7.15E-18	0.468837009	0.389	0.336	2.30E-13	1 CREM
2.68E-39	0.46849242	0.441	0.319	8.62E-35	1 Tmprss2
1.91E-25	0.468175772	0.48	0.397	6.12E-21	1 TBC1D9
3.74E-09	0.467758827	0.263	0.222	0.000120067	1 NFKBIZ
1.30E-23	0.465191806	0.464	0.399	4.19E-19	1 OGDHL
3.35E-39	0.463538509	0.512	0.406	1.08E-34	1 ITGA2
1.33E-136	0.461786133	0.974	0.775	4.26E-132	1 CCSER1
1.87E-23	0.461277331	0.524	0.48	6.00E-19	1 ZFYVE16
4.23E-24	0.453014736	0.583	0.541	1.36E-19	1 SPAG16
7.74E-51	0.452971447	0.765	0.675	2.49E-46	1 THSD7A
8.43E-46	0.451277697	0.56	0.425	2.71E-41	1 CLCNKB
1.98E-27	0.450401408	0.525	0.462	6.36E-23	1 SREBF2
5.07E-24	0.448349583	0.267	0.185	1.63E-19	1 MBOAT1
8.43E-40	0.445035766	0.675	0.611	2.71E-35	1 LRRFIP1
7.86E-30	0.443474891	0.59	0.536	2.52E-25	1 CYRIB
1.72E-23	0.435624074	0.357	0.284	5.53E-19	1 AC139769.1
4.22E-32	0.434270553	0.362	0.248	1.36E-27	1 XIST
1.38E-14	0.434247317	0.402	0.356	4.43E-10	1 TEX9
5.91E-20	0.431865509	0.441	0.385	1.90E-15	1 HNF1B
5.35E-21	0.43149116	0.559	0.536	1.72E-16	1 MRPL33
2.95E-19	0.429165968	0.376	0.316	9.48E-15	1 RAB11FIP2
8.31E-102	0.428072693	0.976	0.868	2.67E-97	1 PKHD1
9.87E-23	0.427756117	0.518	0.465	3.17E-18	1 PRR5-ARHGAP8
2.97E-19	0.424324802	0.299	0.225	9.54E-15	1 KCNJ1
5.84E-12	0.417634944	0.435	0.403	1.88E-07	1 PHACTR2
9.07E-11	0.417218197	0.462	0.417	2.91E-06	1 SLC16A7
2.51E-18	0.416934838	0.296	0.224	8.05E-14	1 TNFRSF19
6.83E-11	0.416931157	0.384	0.353	2.19E-06	1 PDE9A
4.13E-10	0.416497402	0.396	0.37	1.33E-05	1 MBP
1.61E-18	0.415612178	0.545	0.514	5.18E-14	1 LLGL2
2.70E-27	0.410832206	0.445	0.353	8.69E-23	1 SGPP2
2.04E-08	0.408902733	0.635	0.642	0.000655404	1 SLC05A1
1.51E-22	0.406985912	0.45	0.377	4.84E-18	1 IPCEF1
8.82E-22	0.404832225	0.351	0.275	2.83E-17	1 SORL1
7.62E-11	0.404110952	0.265	0.22	2.45E-06	1 SPAG17

1.20E-08	0.403916349	0.355	0.334	0.000385385	1 CKMT2-AS1
2.73E-57	0.401679838	0.649	0.507	8.78E-53	1 RHOBTB3
3.35E-18	0.400357496	0.36	0.299	1.08E-13	1 PHTF2
5.18E-31	0.400340694	0.646	0.605	1.66E-26	1 CD2AP
3.96E-32	0.397701785	0.708	0.658	1.27E-27	1 SAMD12
5.87E-17	0.397306632	0.36	0.296	1.88E-12	1 RAPGEF3
2.66E-25	0.396121065	0.663	0.622	8.56E-21	1 PPP1R9A
2.91E-10	0.396083121	0.49	0.487	9.34E-06	1 CYSTM1
4.19E-11	0.394673735	0.502	0.504	1.35E-06	1 NUP214
3.46E-11	0.393935077	0.334	0.295	1.11E-06	1 EIPR1
8.86E-42	0.393482309	0.66	0.526	2.85E-37	1 MYO10
8.31E-17	0.393440161	0.368	0.306	2.67E-12	1 MST1L
2.92E-14	0.393282881	0.296	0.236	9.39E-10	1 LINC01036
1.23E-20	0.39182634	0.38	0.313	3.95E-16	1 IQCK
2.21E-17	0.390660041	0.52	0.467	7.09E-13	1 LINC01725
4.83E-10	0.390402574	0.343	0.312	1.55E-05	1 RBM41
4.95E-12	0.389615353	0.313	0.267	1.59E-07	1 RPH3AL
1.43E-21	0.389561372	0.266	0.193	4.58E-17	1 ZNF43
3.71E-25	0.389312604	0.342	0.248	1.19E-20	1 AC068547.1
1.78E-32	0.388826889	0.473	0.369	5.72E-28	1 AC004593.2
1.52E-16	0.387293361	0.298	0.237	4.87E-12	1 SLC38A2
1.33E-37	0.383865885	0.436	0.312	4.29E-33	1 MACC1
3.65E-12	0.383518713	0.253	0.207	1.17E-07	1 GSTM4
2.08E-35	0.383034508	0.589	0.503	6.68E-31	1 ARHGEF3
4.79E-13	0.380062787	0.4	0.354	1.54E-08	1 RAP1GAP2
1.43E-14	0.379898071	0.257	0.199	4.59E-10	1 TMEM72
6.91E-35	0.379210943	0.62	0.557	2.22E-30	1 ADGRL2
1.71E-55	0.377256538	0.332	0.188	5.49E-51	1 ADGRF1
7.19E-13	0.376233379	0.502	0.492	2.31E-08	1 SNRPN
2.78E-47	0.375600795	0.527	0.382	8.91E-43	1 MYO3B
5.30E-59	0.375035329	0.534	0.367	1.70E-54	1 FRY
9.35E-14	0.370635599	0.305	0.254	3.00E-09	1 SLC35B4
1.20E-51	0.370568818	0.86	0.83	3.86E-47	1 DDX17
4.17E-32	0.370446491	0.763	0.757	1.34E-27	1 BABAM2
1.53E-27	0.369756796	0.705	0.696	4.92E-23	1 TRAPPC9
1.26E-16	0.368573898	0.269	0.206	4.04E-12	1 MAP3K15
1.16E-13	0.366902599	0.531	0.52	3.71E-09	1 ADAM10
2.68E-14	0.366640755	0.512	0.478	8.60E-10	1 COL18A1
8.02E-06	0.363224013	0.384	0.38	0.257530719	1 CLCN3
1.17E-14	0.361061331	0.36	0.306	3.75E-10	1 ASXL3
9.69E-55	0.358434684	0.456	0.28	3.11E-50	1 TMEM52B
5.60E-19	0.356955953	0.623	0.586	1.80E-14	1 TRHDE
6.04E-06	0.356655252	0.459	0.472	0.194027814	1 GALNT11
1.91E-14	0.356646479	0.254	0.195	6.14E-10	1 GPR160
0.00620766	0.356292763	0.434	0.532	1	1 RANBP2
4.75E-16	0.355176567	0.573	0.573	1.53E-11	1 TLK1
1.92E-13	0.353229349	0.277	0.224	6.16E-09	1 CAP2
1.28E-24	0.351365984	0.373	0.273	4.10E-20	1 CACNB4
1.93E-06	0.350763012	0.286	0.265	0.062077138	1 COG7
2.76E-13	0.35065257	0.475	0.44	8.87E-09	1 CCDC171
1.90E-08	0.349923944	0.322	0.294	0.000609239	1 WDR91

2.14E-06	0.34770302	0.316	0.291	0.068668252	1	AL050309.1
1.31E-07	0.346564565	0.319	0.288	0.004193667	1	SEMA6A
3.25E-09	0.34568587	0.266	0.227	0.000104324	1	SLC23A2
4.68E-05	0.344900892	0.383	0.379	1	1	CDKL1
8.24E-26	0.344065723	0.751	0.726	2.65E-21	1	DANT2
1.89E-20	0.342974112	0.673	0.658	6.06E-16	1	MAP4
8.23E-10	0.338163268	0.485	0.467	2.64E-05	1	RBBP8
6.48E-10	0.337704229	0.297	0.255	2.08E-05	1	ADGRG1
0.00071465	0.337086901	0.291	0.279	1	1	CD24
9.12E-07	0.337062074	0.345	0.328	0.029290825	1	SNX2
0.00017426	0.33558639	0.347	0.349	1	1	ACVR1B
2.79E-11	0.334825734	0.473	0.455	8.96E-07	1	ZNF618
1.23E-15	0.334777195	0.671	0.675	3.95E-11	1	AAK1
1.91E-08	0.333654329	0.782	0.824	0.000614459	1	FP236383.3
8.25E-06	0.333605329	0.296	0.278	0.265111981	1	ZNF483
4.62E-13	0.332933475	0.582	0.572	1.49E-08	1	WWTR1
2.75E-17	0.332166854	0.542	0.478	8.84E-13	1	GALNT18
3.57E-11	0.330573886	0.325	0.275	1.15E-06	1	GPR39
3.03E-33	0.328102517	0.79	0.703	9.73E-29	1	DLG2
1.44E-08	0.32734031	0.383	0.347	0.00046137	1	SLC16A10
3.15E-15	0.326684519	0.533	0.502	1.01E-10	1	PTPN3
2.06E-06	0.326252945	0.256	0.225	0.066096696	1	ZC4H2
1.56E-10	0.324917721	0.356	0.312	5.00E-06	1	SLC22A15
2.02E-10	0.322532712	0.344	0.304	6.49E-06	1	CHPT1
5.51E-08	0.320842775	0.307	0.28	0.001770187	1	SMAD1
8.96E-22	0.319549526	0.531	0.474	2.88E-17	1	MOB1B
8.44E-05	0.318962186	0.366	0.36	1	1	ZNF10
2.74E-18	0.31870451	0.313	0.241	8.79E-14	1	CPVL
8.04E-08	0.317170892	0.326	0.297	0.002582813	1	DPY19L2P2
9.40E-22	0.313942327	0.706	0.69	3.02E-17	1	MTR
1.95E-05	0.312706125	0.255	0.233	0.625219473	1	RAB17
1.77E-30	0.309434116	1	0.999	5.67E-26	1	FP671120.7
1.72E-08	0.308680323	0.276	0.24	0.00055394	1	NRSN2-AS1
3.98E-11	0.307239585	0.353	0.3	1.28E-06	1	VAX2
9.81E-05	0.306701938	0.48	0.496	1	1	SMARCA2
8.78E-05	0.303759335	0.313	0.295	1	1	DEFB1
1.25E-25	0.303225655	0.8	0.762	4.03E-21	1	PPP2R3A
2.94E-15	0.303184142	0.568	0.539	9.45E-11	1	PPFIBP1
1.44E-38	0.30292182	0.823	0.802	4.64E-34	1	MED13L
2.87E-06	0.302127139	0.261	0.234	0.0920526	1	DCUN1D5
0.00481566	0.302077555	0.366	0.374	1	1	TBC1D32
2.09E-45	0.301159198	0.921	0.882	6.72E-41	1	IMMP2L
0.00056001	0.301129374	0.324	0.318	1	1	ERBB2
1.88E-05	0.301094958	0.438	0.44	0.604960504	1	ZNF827
4.16E-11	0.300782694	0.612	0.595	1.34E-06	1	DAB1
2.53E-08	0.30046485	0.263	0.226	0.000813108	1	CBR3-AS1
2.74E-07	0.299656204	0.342	0.316	0.008807298	1	ERMP1
7.18E-06	0.299181952	0.606	0.605	0.230455356	1	IGFBP7
2.41E-06	0.29853504	0.33	0.295	0.077262833	1	SLC9C1
2.42E-05	0.29594348	0.528	0.561	0.777368117	1	SRSF5
1.43E-06	0.292641562	0.429	0.415	0.045826242	1	NEK11

0.00065759	0.292470879	0.271	0.256	1	1 YWHAEP7
3.02E-06	0.291748674	0.295	0.27	0.097038122	1 ARMCX5-GPRA
4.61E-16	0.290889501	0.336	0.27	1.48E-11	1 NHSL1
5.17E-07	0.289719279	0.324	0.297	0.016590626	1 OBSCN
4.95E-66	0.288283794	0.714	0.56	1.59E-61	1 NEBL
1.76E-09	0.287542297	0.913	0.937	5.66E-05	1 MT-RNR1
2.60E-05	0.286963842	0.277	0.256	0.836431477	1 METTL9
1.79E-06	0.284375177	0.257	0.225	0.057393206	1 TPD52L1
4.89E-06	0.282467831	0.314	0.29	0.156949502	1 FAM117B
7.44E-30	0.281945883	0.411	0.297	2.39E-25	1 KLHL3
0.00272502	0.280615339	0.412	0.416	1	1 ZNF124
0.00136876	0.280018711	0.312	0.302	1	1 5-8S-rRNA
0.00291035	0.277976556	0.383	0.392	1	1 EFCAB2
2.50E-07	0.277229627	0.445	0.43	0.008013401	1 DTNB
1.99E-30	0.274600438	0.853	0.838	6.40E-26	1 SNX29
0.0016796	0.274416289	0.43	0.449	1	1 LCORL
0.00017587	0.273594307	0.288	0.271	1	1 RAPH1
1.65E-08	0.272318298	0.374	0.332	0.000528891	1 AC040174.1
5.35E-07	0.271816283	0.463	0.463	0.017172263	1 ACTR3C
2.04E-25	0.271017911	0.824	0.822	6.55E-21	1 ARID1B
0.00594214	0.2705313	0.285	0.284	1	1 ANKRD13A
3.98E-11	0.270328047	0.637	0.635	1.28E-06	1 SCMHI
0.00092876	0.269538248	0.372	0.365	1	1 LMCD1-AS1
7.18E-06	0.268125478	0.423	0.407	0.230564882	1 UBL3
0.0018664	0.267050311	0.267	0.256	1	1 B4GALT1
5.36E-08	0.265299132	0.516	0.492	0.00172161	1 MFHAS1
5.73E-05	0.264841418	0.348	0.332	1	1 CFAP221
0.00016345	0.264778784	0.3	0.282	1	1 CSRNP3
3.20E-11	0.263391884	0.584	0.575	1.03E-06	1 NLK
0.00078422	0.263178026	0.386	0.39	1	1 MINDY2
9.74E-07	0.262167273	0.544	0.555	0.031266948	1 RAB3IP
5.02E-06	0.2607591	0.409	0.398	0.161375475	1 HSPA12A
2.84E-12	0.260731407	0.616	0.595	9.11E-08	1 DYNC2H1
4.59E-05	0.258852831	0.275	0.245	1	1 BHLHE40
0.00010992	0.257833254	0.631	0.664	1	1 HCG17
0.00010257	0.256166853	0.431	0.436	1	1 SPATA6
1.37E-06	0.255299895	0.639	0.658	0.043970257	1 SH3RF1
3.07E-16	0.2520172	0.72	0.717	9.86E-12	1 ADK
0.00736189	0.251873059	0.448	0.473	1	1 CDC42BPB
0.00413428	0.251835615	0.288	0.282	1	1 KSR1
5.70E-16	0.251293115	0.571	0.533	1.83E-11	1 PLCXD2
0	2.807302184	0.942	0.2	0	2 SLC12A1
0	2.563615929	0.745	0.196	0	2 ENOX1
0	2.299412619	0.693	0.172	0	2 UMOD
0	2.208661386	0.922	0.313	0	2 PLCB1
0	2.175102759	0.861	0.248	0	2 CASR
3.09E-190	2.167234096	0.338	0.111	9.93E-186	2 PAPP2
5.89E-156	1.99222032	0.532	0.295	1.89E-151	2 COPG2
0	1.83800502	0.625	0.204	0	2 NPSR1-AS1
0	1.783659922	0.538	0.108	0	2 ACP3
0	1.758489833	0.775	0.324	0	2 LINC01606

0	1.71910057	0.537	0.102	0	2 GP2
8.23E-262	1.662996349	0.751	0.442	2.64E-257	2 GPC5
0	1.640414228	0.609	0.231	0	2 RANBP3L
0	1.633182383	0.99	0.748	0	2 ERBB4
1.05E-211	1.608268534	0.565	0.277	3.37E-207	2 PHACTR1
2.42E-168	1.60559798	0.393	0.152	7.77E-164	2 AC092078.2
0	1.589262288	0.858	0.596	0	2 PRKD1
1.77E-52	1.568023327	0.419	0.279	5.68E-48	2 BBOX1
0	1.558734249	0.821	0.474	0	2 HIP1
0	1.545241793	0.873	0.347	0	2 CACNA2D3
5.21E-251	1.508027111	0.707	0.419	1.67E-246	2 DEPTOR
0	1.481470694	0.801	0.435	0	2 KLHL13
0	1.471711942	0.448	0.11	0	2 SCHLAP1
0	1.461117761	0.512	0.094	0	2 SIM2
1.05E-300	1.389447312	0.82	0.557	3.39E-296	2 CLCN5
1.49E-264	1.385993655	0.892	0.595	4.78E-260	2 KCNIP4
0	1.372620433	0.681	0.287	0	2 RBFOX1
0	1.353419499	0.589	0.186	0	2 RP1
4.01E-184	1.348918816	0.629	0.363	1.29E-179	2 CLDN10
7.10E-113	1.347592047	0.452	0.247	2.28E-108	2 ITGB6
0	1.34699039	0.99	0.775	0	2 CCSER1
5.19E-258	1.302942889	0.418	0.133	1.67E-253	2 AC024022.1
9.52E-237	1.264646389	0.515	0.209	3.06E-232	2 SUSD4
2.46E-251	1.260050841	0.713	0.355	7.90E-247	2 PCDH9
5.08E-203	1.237493451	0.658	0.373	1.63E-198	2 INPP4B
0	1.214920563	0.382	0.077	0	2 CLDN16
7.89E-191	1.214489653	0.451	0.186	2.53E-186	2 PPFIA2
1.91E-177	1.198412574	0.506	0.234	6.13E-173	2 LINC01182
8.25E-272	1.180965223	0.438	0.138	2.65E-267	2 TFAP2B
7.24E-223	1.178037696	0.592	0.286	2.33E-218	2 UGT8
1.26E-250	1.166376694	0.693	0.313	4.05E-246	2 LINC01762
3.47E-185	1.160553987	0.582	0.303	1.11E-180	2 UPP2
7.47E-218	1.144336138	0.585	0.257	2.40E-213	2 CA10
1.52E-210	1.121924974	0.734	0.471	4.87E-206	2 CCDC148
1.06E-207	1.104793501	0.528	0.235	3.39E-203	2 MGLL
1.26E-179	1.097587464	0.821	0.615	4.05E-175	2 ATP1A1
2.42E-237	1.082753127	0.808	0.46	7.78E-233	2 PDE1A
5.68E-203	1.069884403	0.701	0.402	1.82E-198	2 STK32B
2.67E-173	1.055550741	0.615	0.366	8.58E-169	2 EFHD1
1.92E-209	1.046679742	0.57	0.249	6.17E-205	2 ESRRB
3.53E-173	1.040196304	0.38	0.132	1.13E-168	2 CALCR
7.35E-123	1.025856818	0.643	0.424	2.36E-118	2 THSD4
3.43E-182	1.025805283	0.572	0.267	1.10E-177	2 SGIP1
6.00E-147	1.014535705	0.663	0.444	1.93E-142	2 KCTD1
4.08E-167	1.011070135	0.502	0.22	1.31E-162	2 HS6ST2
1.58E-177	0.993928498	0.869	0.709	5.07E-173	2 CGNL1
3.13E-159	0.993074943	0.437	0.194	1.01E-154	2 AL713999.2
3.59E-119	0.993014563	0.334	0.141	1.15E-114	2 NOS1
2.81E-213	0.990184348	0.393	0.13	9.03E-209	2 FXYD6-FXYD2
3.85E-192	0.987708367	0.258	0.066	1.23E-187	2 IFITM10
1.30E-136	0.965686328	0.698	0.495	4.18E-132	2 FXYD2

2.86E-115	0.957703145	0.532	0.307	9.18E-111	2 CCDC178
4.05E-227	0.953265282	0.917	0.774	1.30E-222	2 PKP4
3.58E-88	0.949244513	0.418	0.247	1.15E-83	2 ITPRID2
2.68E-118	0.929889419	0.647	0.419	8.59E-114	2 CLCNKB
7.03E-111	0.922833616	0.558	0.357	2.26E-106	2 TMEM72-AS1
2.51E-154	0.918055525	0.382	0.15	8.05E-150	2 DENND2A
7.57E-114	0.915729957	0.392	0.187	2.43E-109	2 AQP4-AS1
1.01E-156	0.907150246	0.283	0.088	3.24E-152	2 PPM1E
4.06E-136	0.893871244	0.427	0.197	1.30E-131	2 WNK4
1.20E-17	0.891918523	0.313	0.235	3.85E-13	2 KCNMB2
3.41E-133	0.874311647	0.425	0.194	1.10E-128	2 NRK
3.14E-121	0.861515648	0.421	0.211	1.01E-116	2 TPTEP1
3.37E-57	0.859011585	0.33	0.197	1.08E-52	2 CKB
1.58E-125	0.858583717	0.269	0.093	5.07E-121	2 CNTN1
7.19E-54	0.841200491	0.546	0.407	2.31E-49	2 ACSL4
9.77E-89	0.840074882	0.435	0.252	3.14E-84	2 SCD5
7.08E-82	0.820018166	0.489	0.32	2.27E-77	2 CREB3L2
9.44E-154	0.819212272	0.782	0.504	3.03E-149	2 PTH1R
1.70E-59	0.816199691	0.508	0.37	5.46E-55	2 LRRK2
2.59E-112	0.815971936	0.46	0.239	8.31E-108	2 CHL1
5.30E-97	0.810120136	0.323	0.145	1.70E-92	2 HDAC9
1.36E-113	0.80998347	0.47	0.238	4.36E-109	2 AC068631.1
4.18E-133	0.806105611	0.778	0.589	1.34E-128	2 AC012409.2
2.80E-98	0.782677144	0.479	0.28	9.01E-94	2 CCND3
1.50E-47	0.779813559	0.277	0.156	4.81E-43	2 LINC01091
1.33E-31	0.778305593	0.282	0.182	4.26E-27	2 HMCN1
8.59E-128	0.767510066	0.432	0.204	2.76E-123	2 RIMBP2
3.23E-76	0.755158269	0.253	0.112	1.04E-71	2 SLC22A3
3.51E-64	0.752765051	0.266	0.131	1.13E-59	2 TCIM
6.61E-102	0.748979149	0.602	0.377	2.12E-97	2 MYO3B
6.53E-75	0.745612418	0.349	0.191	2.10E-70	2 TMEM72
3.74E-100	0.745142658	0.66	0.479	1.20E-95	2 HOXB3
6.80E-85	0.745062083	0.405	0.228	2.18E-80	2 DZIP1
7.35E-87	0.744858308	0.409	0.228	2.36E-82	2 ADGRV1
4.48E-89	0.741713657	0.721	0.577	1.44E-84	2 CPEB3
6.52E-103	0.741230748	0.478	0.261	2.09E-98	2 SEMA6D
1.03E-52	0.738703635	0.497	0.349	3.32E-48	2 LINC00970
2.33E-75	0.738582912	0.356	0.191	7.50E-71	2 KNG1
1.70E-69	0.737204458	0.557	0.403	5.45E-65	2 ARHGEF38
4.48E-24	0.734931786	0.266	0.18	1.44E-19	2 ROBO2
5.42E-75	0.727240943	0.484	0.32	1.74E-70	2 CFAP221
6.82E-59	0.724799996	0.407	0.25	2.19E-54	2 MSR1
2.10E-80	0.723947987	0.679	0.5	6.73E-76	2 NAV2
6.65E-90	0.721901922	0.658	0.469	2.14E-85	2 GALNT18
2.98E-73	0.717231842	0.377	0.208	9.57E-69	2 SLCO3A1
2.16E-68	0.71629887	0.653	0.541	6.94E-64	2 DAPK1
1.41E-137	0.714604513	0.903	0.734	4.53E-133	2 ARHGAP6
2.16E-50	0.714194424	0.536	0.397	6.95E-46	2 CLCNKA
1.01E-07	0.705818574	0.277	0.239	0.003253302	2 LINGO2
1.07E-138	0.703702978	0.338	0.123	3.43E-134	2 NTRK2
7.60E-129	0.700017087	0.869	0.703	2.44E-124	2 ATP1B1

9.69E-109	0.699555425	0.744	0.558	3.11E-104	2 TBC1D4
1.06E-86	0.696429482	0.266	0.111	3.40E-82	2 SFRP1
3.34E-118	0.694328177	0.789	0.536	1.07E-113	2 EFNA5
1.17E-103	0.685934603	0.627	0.375	3.76E-99	2 FGF13
5.99E-100	0.684117953	0.785	0.67	1.92E-95	2 ARHGAP24
7.38E-46	0.680131147	0.283	0.164	2.37E-41	2 SHISA9
8.85E-77	0.67994777	0.286	0.133	2.84E-72	2 BRINP3
8.06E-81	0.678551749	0.354	0.188	2.59E-76	2 FAM184A
7.25E-36	0.672511878	0.509	0.412	2.33E-31	2 LHFPL3
2.04E-62	0.671828897	0.365	0.21	6.54E-58	2 GNAI1
6.85E-85	0.669903331	0.287	0.129	2.20E-80	2 GPR132
8.39E-49	0.669863598	0.496	0.368	2.69E-44	2 MAMDC2
2.32E-105	0.66803832	0.801	0.675	7.46E-101	2 ABLIM1
1.20E-69	0.667960496	0.624	0.483	3.86E-65	2 MFHAS1
1.09E-76	0.66528157	0.643	0.493	3.49E-72	2 TRIM2
4.76E-86	0.66522652	0.258	0.109	1.53E-81	2 ADAP1
9.18E-60	0.664933645	0.363	0.216	2.95E-55	2 AL139383.1
2.31E-129	0.660742025	0.66	0.385	7.41E-125	2 EGF
2.35E-111	0.655845058	0.31	0.125	7.56E-107	2 GUCY1A1
4.90E-55	0.650772041	0.538	0.404	1.57E-50	2 MIR4435-2HG
2.65E-101	0.649119099	0.696	0.495	8.50E-97	2 SKAP1
3.77E-77	0.648171903	0.709	0.549	1.21E-72	2 COL4A3
1.84E-35	0.648011525	0.414	0.313	5.91E-31	2 DNASE1
2.62E-49	0.646175022	0.625	0.534	8.42E-45	2 SVIL
8.79E-42	0.643116851	0.353	0.235	2.82E-37	2 COL6A1
1.75E-35	0.639565891	0.384	0.282	5.63E-31	2 SLC25A33
6.80E-65	0.635472283	0.32	0.172	2.19E-60	2 AGPAT4
1.93E-42	0.628123411	0.553	0.467	6.19E-38	2 EPB41L1
2.93E-33	0.626728602	0.384	0.291	9.42E-29	2 ATP6V0E1
4.46E-60	0.62648407	0.264	0.133	1.43E-55	2 SLC16A5
3.15E-54	0.621630428	0.385	0.244	1.01E-49	2 AC018730.1
1.24E-38	0.620021381	0.398	0.268	3.99E-34	2 LINC02343
2.74E-84	0.620015049	0.75	0.625	8.81E-80	2 CLMN
2.39E-40	0.614186885	0.397	0.279	7.69E-36	2 LMF1
1.16E-63	0.611190985	0.677	0.54	3.72E-59	2 PRICKLE2
1.53E-41	0.611017204	0.531	0.443	4.92E-37	2 LRRC37A4P
1.12E-66	0.609967279	0.653	0.509	3.61E-62	2 AL137782.1
5.16E-51	0.609913208	0.304	0.171	1.66E-46	2 AC011586.1
4.07E-41	0.608956726	0.681	0.62	1.31E-36	2 AC058822.1
3.47E-13	0.603049701	0.271	0.217	1.11E-08	2 NLGN4Y
1.90E-46	0.595347405	0.402	0.266	6.12E-42	2 SCTR
1.27E-57	0.59268177	0.567	0.422	4.07E-53	2 SCNN1A
1.48E-54	0.590753287	0.641	0.514	4.75E-50	2 HNF1A-AS1
1.30E-64	0.589809616	0.612	0.449	4.18E-60	2 STK39
2.25E-55	0.585406263	0.648	0.53	7.22E-51	2 AK3
5.91E-53	0.583672445	0.281	0.153	1.90E-48	2 PAPSS2
7.70E-45	0.583545659	0.349	0.222	2.47E-40	2 KCNJ1
5.02E-65	0.57975404	0.729	0.612	1.61E-60	2 DNAH14
1.01E-50	0.578814567	0.41	0.275	3.24E-46	2 MTURN
3.24E-130	0.571312624	0.978	0.874	1.04E-125	2 ESRRG
7.68E-68	0.571168871	0.667	0.494	2.47E-63	2 LRP1B

1.87E-35	0.570861731	0.578	0.494	6.01E-31	2 ZMAT1
2.69E-63	0.564225557	0.648	0.502	8.65E-59	2 IVNS1ABP
2.94E-50	0.563853912	0.314	0.182	9.45E-46	2 PRKX
3.00E-43	0.560343933	0.419	0.291	9.65E-39	2 PLEKHH2
5.70E-38	0.559039552	0.407	0.294	1.83E-33	2 MAILR
3.87E-37	0.558240992	0.405	0.288	1.24E-32	2 MAL
3.40E-26	0.555552966	0.41	0.33	1.09E-21	2 NMD3
1.02E-40	0.553903843	0.573	0.463	3.29E-36	2 LINC01725
4.68E-43	0.549960236	0.6	0.51	1.50E-38	2 LLGL2
1.18E-48	0.545943561	0.656	0.593	3.78E-44	2 WWC2
1.79E-41	0.544576514	0.271	0.158	5.76E-37	2 STK32A
2.50E-42	0.543872288	0.336	0.214	8.04E-38	2 SPAG17
3.23E-91	0.543480948	0.885	0.778	1.04E-86	2 NAALADL2
2.39E-41	0.542525939	0.591	0.512	7.67E-37	2 TAOK3
1.01E-67	0.541859972	0.697	0.563	3.23E-63	2 USP53
5.60E-75	0.539762086	0.262	0.118	1.80E-70	2 USP13
7.05E-24	0.538624231	0.25	0.168	2.26E-19	2 AP1S3
4.85E-29	0.538181285	0.334	0.241	1.56E-24	2 MERTK
3.33E-28	0.537999807	0.379	0.285	1.07E-23	2 LINC00476
9.64E-37	0.53799421	0.434	0.316	3.09E-32	2 ATP11A
5.12E-11	0.536285458	0.304	0.247	1.65E-06	2 AC012593.1
6.63E-41	0.534720875	0.491	0.372	2.13E-36	2 CDH16
1.83E-26	0.531765127	0.413	0.316	5.88E-22	2 AC104123.1
6.48E-30	0.52791063	0.367	0.268	2.08E-25	2 MALRD1
2.46E-73	0.527520744	0.834	0.779	7.90E-69	2 MYO9A
1.86E-21	0.526647981	0.401	0.312	5.97E-17	2 GNGT1
7.70E-38	0.52587582	0.3	0.189	2.47E-33	2 CIT
7.56E-40	0.523853861	0.464	0.348	2.43E-35	2 RAP1GAP2
9.87E-67	0.522951707	0.558	0.383	3.17E-62	2 DNM3
3.67E-28	0.52266988	0.433	0.342	1.18E-23	2 GPI
8.36E-31	0.518769975	0.258	0.161	2.68E-26	2 U91319.1
1.50E-22	0.515684413	0.418	0.345	4.82E-18	2 IL3RA
1.95E-64	0.514392876	0.739	0.606	6.25E-60	2 MRPS6
8.91E-36	0.513137027	0.512	0.41	2.86E-31	2 DNAH7
4.34E-41	0.512803311	0.282	0.169	1.40E-36	2 RASSF7
9.17E-30	0.50855315	0.321	0.223	2.95E-25	2 RNF24
1.23E-34	0.505867738	0.262	0.157	3.96E-30	2 BDKRB2
1.19E-21	0.502306779	0.27	0.192	3.82E-17	2 PRANCR
5.64E-83	0.502112936	0.845	0.659	1.81E-78	2 NHS
4.58E-97	0.498865224	0.895	0.702	1.47E-92	2 ADAMTS9-AS2
1.32E-113	0.497480016	0.703	0.406	4.25E-109	2 SLC16A12
3.65E-45	0.494729818	0.267	0.152	1.17E-40	2 CCDC148-AS1
6.07E-30	0.493851591	0.397	0.298	1.95E-25	2 SLC39A10
7.70E-26	0.493370889	0.458	0.362	2.47E-21	2 DGKH
3.39E-22	0.4918175	0.516	0.46	1.09E-17	2 ZFAND5
9.84E-31	0.489302107	0.405	0.296	3.16E-26	2 VAX2
4.57E-32	0.48774653	0.659	0.601	1.47E-27	2 CIRBP
0.0002922	0.486278375	0.434	0.425	1	2 PDK4
1.18E-29	0.485149026	0.408	0.309	3.79E-25	2 MYOF
5.32E-20	0.483236108	0.418	0.339	1.71E-15	2 GLCC1
1.52E-24	0.480805834	0.29	0.202	4.87E-20	2 AP000317.2

2.67E-21	0.479863419	0.293	0.215	8.58E-17	2 BCL7C
9.12E-23	0.479747277	0.296	0.215	2.93E-18	2 AL132780.1
7.51E-29	0.478780553	0.413	0.315	2.41E-24	2 AMMECR1
2.05E-38	0.476918188	0.382	0.261	6.57E-34	2 PANTR1
4.07E-41	0.47528335	0.575	0.44	1.31E-36	2 RNF150
2.14E-24	0.474338075	0.393	0.304	6.89E-20	2 MST1L
5.94E-31	0.474048188	0.59	0.525	1.91E-26	2 PTPN14
1.58E-14	0.473466867	0.5	0.45	5.08E-10	2 PPM1L
2.47E-29	0.472695564	0.332	0.231	7.94E-25	2 COL28A1
1.62E-35	0.466500366	0.314	0.201	5.20E-31	2 PRKCQ
3.57E-22	0.465823679	0.483	0.418	1.15E-17	2 TCAIM
8.51E-22	0.461479181	0.484	0.425	2.73E-17	2 FBXL4
2.87E-25	0.459806778	0.401	0.309	9.21E-21	2 SLC22A15
2.48E-20	0.458023196	0.434	0.366	7.95E-16	2 CFAP70
8.17E-26	0.45798065	0.338	0.245	2.62E-21	2 MYLK
6.34E-16	0.457474135	0.265	0.201	2.04E-11	2 USP2
2.92E-23	0.454689761	0.262	0.183	9.38E-19	2 F11
1.97E-27	0.454179246	0.398	0.301	6.33E-23	2 CYS1
4.22E-34	0.454073129	0.282	0.178	1.35E-29	2 AC011447.3
8.09E-32	0.451362572	0.293	0.191	2.60E-27	2 SLC15A2
1.04E-18	0.451314286	0.483	0.418	3.34E-14	2 TMEM232
8.55E-40	0.448770172	0.581	0.463	2.75E-35	2 SSBP2
4.68E-18	0.447839075	0.278	0.205	1.50E-13	2 AC104596.1
2.07E-21	0.44670713	0.447	0.374	6.63E-17	2 PLXNB1
1.07E-28	0.445971066	0.579	0.489	3.43E-24	2 COL4A4
2.84E-28	0.444369597	0.623	0.551	9.12E-24	2 TPST1
3.51E-31	0.443611393	0.545	0.435	1.13E-26	2 PRDM16
9.31E-19	0.443103246	0.489	0.436	2.99E-14	2 GOLGA8A
2.51E-19	0.441357861	0.532	0.496	8.07E-15	2 ETNK1
3.44E-30	0.439203855	0.64	0.546	1.10E-25	2 CYFIP2
1.16E-17	0.436825949	0.346	0.281	3.72E-13	2 AC133644.2
4.85E-14	0.436576929	0.32	0.259	1.56E-09	2 DOCK3
5.17E-26	0.43602419	0.664	0.614	1.66E-21	2 DPH6
2.84E-13	0.43524751	0.359	0.297	9.13E-09	2 RAPGEF3
2.07E-56	0.434950428	0.783	0.675	6.64E-52	2 TFCP2L1
1.12E-13	0.434427686	0.467	0.443	3.59E-09	2 MYH10
4.86E-22	0.432785232	0.511	0.438	1.56E-17	2 RGL3
2.43E-32	0.431364576	0.723	0.659	7.80E-28	2 LGR4
8.59E-22	0.431208043	0.439	0.362	2.76E-17	2 CAPN2
2.68E-15	0.430871477	0.314	0.252	8.61E-11	2 YWHAEP7
1.25E-24	0.430782204	0.324	0.23	4.01E-20	2 SLC2A13
1.48E-15	0.430329411	0.344	0.282	4.75E-11	2 FAM227B
4.70E-12	0.42795487	0.273	0.218	1.51E-07	2 SLC22A2
4.76E-23	0.422526651	0.826	0.82	1.53E-18	2 FP236383.3
7.90E-19	0.422298997	0.439	0.356	2.54E-14	2 NELL1
4.70E-87	0.421819272	0.777	0.593	1.51E-82	2 CA12
1.86E-29	0.419615008	0.393	0.289	5.97E-25	2 GALNT10
1.27E-28	0.419481249	0.585	0.504	4.08E-24	2 RALGPS1
3.96E-31	0.419455777	0.777	0.731	1.27E-26	2 LINGO1
2.46E-17	0.417964235	0.398	0.331	7.89E-13	2 CECR2
7.18E-51	0.416305302	0.836	0.673	2.31E-46	2 KAZN

2.36E-17	0.41621461	0.46	0.403	7.58E-13	2 LINC00271
1.97E-09	0.414999831	0.37	0.333	6.33E-05	2 RPS6KA2
3.10E-22	0.411500897	0.509	0.437	9.95E-18	2 CCDC171
5.20E-16	0.411215116	0.381	0.316	1.67E-11	2 MBOAT2
5.39E-22	0.41045228	0.271	0.186	1.73E-17	2 PHF21B
8.30E-23	0.410168653	0.519	0.43	2.66E-18	2 BICDL1
1.85E-24	0.408322066	0.512	0.413	5.94E-20	2 SLC16A7
3.48E-25	0.407819613	0.54	0.464	1.12E-20	2 PRR5-ARHGAP8
3.79E-22	0.406847305	0.267	0.185	1.22E-17	2 ABHD17C
1.58E-19	0.404651014	0.359	0.282	5.07E-15	2 TRMT9B
2.66E-17	0.403591581	0.558	0.527	8.56E-13	2 GOLGA8B
1.23E-11	0.402660166	0.339	0.291	3.94E-07	2 PFKL
1.05E-17	0.402129747	0.298	0.23	3.38E-13	2 OVOL2
6.86E-13	0.402091941	0.263	0.207	2.20E-08	2 LIX1-AS1
4.65E-11	0.400767022	0.377	0.328	1.49E-06	2 ZNF98
1.63E-28	0.398624193	0.329	0.23	5.24E-24	2 AL137009.1
6.48E-15	0.398035666	0.465	0.42	2.08E-10	2 ERICH1
7.36E-21	0.395510045	0.548	0.48	2.36E-16	2 GNG12-AS1
2.20E-14	0.393624703	0.421	0.368	7.07E-10	2 TBC1D32
2.81E-09	0.392928734	0.468	0.444	9.01E-05	2 MPC1
2.38E-13	0.392925467	0.553	0.532	7.66E-09	2 KIF16B
1.23E-13	0.39254711	0.447	0.411	3.95E-09	2 LINC01138
1.02E-05	0.391205074	0.314	0.292	0.328593449	2 LDHB
1.53E-13	0.389936455	0.537	0.506	4.92E-09	2 MIR3936HG
2.09E-09	0.389618441	0.394	0.357	6.70E-05	2 SPTLC3
1.01E-20	0.38831674	0.439	0.357	3.25E-16	2 MOB3B
4.22E-11	0.388259117	0.324	0.277	1.36E-06	2 CRTCI
3.57E-31	0.386573976	0.547	0.41	1.15E-26	2 LINC01320
1.26E-38	0.386024958	0.488	0.361	4.05E-34	2 MGAT5
1.03E-14	0.385191989	0.306	0.243	3.31E-10	2 AC012531.3
4.97E-25	0.384205554	0.277	0.187	1.60E-20	2 NR2F1-AS1
8.27E-17	0.383495118	0.352	0.285	2.65E-12	2 GSAP
9.81E-18	0.382746436	0.557	0.518	3.15E-13	2 DNM2
1.43E-25	0.380320705	0.254	0.16	4.60E-21	2 AL136234.1
5.72E-26	0.377302075	0.299	0.201	1.84E-21	2 MAPK4
2.29E-22	0.375727709	0.684	0.659	7.34E-18	2 HCG17
3.69E-15	0.373453354	0.289	0.226	1.19E-10	2 MAMDC2-AS1
8.79E-31	0.372512506	0.468	0.373	2.82E-26	2 SEC14L1
2.28E-29	0.372462279	0.711	0.658	7.33E-25	2 SAMD12
1.65E-06	0.372406168	0.253	0.22	0.052995457	2 PPM1K
7.08E-18	0.371890531	0.395	0.325	2.27E-13	2 NR2F2-AS1
5.38E-28	0.370179116	0.772	0.724	1.73E-23	2 DANT2
2.04E-12	0.368710246	0.392	0.331	6.54E-08	2 AC040174.1
1.07E-10	0.367448528	0.386	0.336	3.44E-06	2 ZRANB2-AS2
4.66E-12	0.36626122	0.316	0.265	1.50E-07	2 MAP3K3
8.67E-13	0.364709148	0.462	0.421	2.78E-08	2 STXBP4
8.01E-11	0.364417392	0.471	0.437	2.57E-06	2 ALOX12P2
1.69E-10	0.364388151	0.274	0.225	5.42E-06	2 PRDM16-DT
2.04E-08	0.363517567	0.286	0.247	0.000653662	2 Z93930.2
0.00137292	0.361985219	0.286	0.276	1	2 FBXW8
1.60E-08	0.360932126	0.274	0.235	0.000513652	2 ACSS1

1.23E-08	0.36013577	0.323	0.277	0.000393714	2	NUDT4
4.53E-18	0.358712309	0.499	0.438	1.46E-13	2	TSGA10
4.61E-11	0.358206657	0.383	0.339	1.48E-06	2	TMEM260
1.85E-23	0.357446467	0.989	0.986	5.94E-19	2	FP671120.4
1.09E-27	0.355979424	0.295	0.195	3.50E-23	2	MAP2K6
7.27E-07	0.355440577	0.349	0.324	0.023339099	2	RRBP1
1.26E-16	0.35333885	0.29	0.212	4.04E-12	2	TENM4
2.19E-11	0.352153763	0.544	0.52	7.04E-07	2	TAPT1-AS1
3.21E-13	0.350663715	0.381	0.324	1.03E-08	2	PITPNM2
1.51E-10	0.349947991	0.287	0.238	4.85E-06	2	TSC2
0.00799615	0.349943777	0.258	0.251	1	2	CHP1
3.66E-11	0.349867893	0.28	0.227	1.18E-06	2	FGF9
2.90E-10	0.349848198	0.438	0.403	9.31E-06	2	OGDHL
1.41E-27	0.348676463	0.327	0.22	4.54E-23	2	SLC4A7
5.25E-14	0.348273515	0.478	0.431	1.69E-09	2	ATP2C1
3.94E-21	0.342275439	0.677	0.615	1.26E-16	2	SULT1C2
1.88E-15	0.341929211	0.49	0.433	6.05E-11	2	SRGAP3
3.60E-22	0.341383573	0.308	0.217	1.16E-17	2	FGF14
1.67E-06	0.338559515	0.259	0.227	0.053540727	2	RAP1GAP
1.54E-07	0.337712128	0.404	0.383	0.004960834	2	SESTD1
3.20E-10	0.337607768	0.472	0.458	1.03E-05	2	C2CD5
9.23E-06	0.334620652	0.396	0.381	0.296371179	2	KATNAL2
2.06E-25	0.33356116	0.582	0.504	6.61E-21	2	TANC2
2.71E-05	0.332890527	0.34	0.323	0.870188945	2	CTIF
5.37E-16	0.332463544	0.516	0.462	1.73E-11	2	KIF12
7.53E-32	0.332377553	0.259	0.154	2.42E-27	2	KIRREL1
6.39E-15	0.331024867	0.648	0.632	2.05E-10	2	TTC3
2.79E-14	0.328382319	0.548	0.523	8.96E-10	2	ZNF83
1.69E-08	0.328320126	0.255	0.213	0.000544123	2	HOXA3
5.53E-07	0.327065126	0.412	0.384	0.017765409	2	RAP2C-AS1
5.86E-17	0.325753971	0.573	0.505	1.88E-12	2	WDFY2
5.23E-14	0.3257316	0.274	0.211	1.68E-09	2	C12orf40
1.63E-14	0.32474545	0.719	0.734	5.22E-10	2	AKAP9
1.27E-12	0.324431332	0.502	0.468	4.07E-08	2	CASK
5.97E-07	0.323723631	0.471	0.456	0.019174844	2	LMO7
0.00828477	0.322355224	0.339	0.334	1	2	RIMKLB
9.91E-20	0.321513496	0.339	0.255	3.18E-15	2	BTBD11
1.21E-10	0.321166952	0.255	0.204	3.89E-06	2	ARPC4-TTLL3
1.28E-07	0.319341934	0.363	0.331	0.004108434	2	SMARCA4
9.08E-44	0.31876191	0.928	0.882	2.92E-39	2	IMMP2L
2.57E-12	0.318064315	0.562	0.557	8.27E-08	2	AC138409.2
1.43E-06	0.316918604	0.431	0.417	0.046038675	2	LINC01362
4.85E-09	0.315409686	0.279	0.233	0.000155643	2	STK17A
2.57E-11	0.314476037	0.489	0.454	8.26E-07	2	ZNF618
1.61E-27	0.314279858	0.615	0.497	5.17E-23	2	DSCAML1
4.37E-05	0.31313647	0.326	0.307	1	2	COQ4
6.93E-09	0.312470887	0.389	0.359	0.000222656	2	NAIP
1.26E-19	0.312434156	0.36	0.271	4.03E-15	2	PFKP
2.08E-08	0.311519087	0.331	0.294	0.000668579	2	GABPB2
3.88E-06	0.311300574	0.397	0.385	0.124625431	2	AC073107.1
2.14E-07	0.311235129	0.327	0.298	0.006874772	2	CREBRF

4.78E-16	0.310118658	0.505	0.431	1.54E-11	2 GCNT2
1.67E-07	0.310018965	0.422	0.397	0.0053662	2 RNF10
4.26E-08	0.309262285	0.454	0.43	0.001369767	2 CPEB2
1.64E-08	0.309076354	0.463	0.441	0.00052513	2 UBE2E3
1.63E-10	0.309017733	0.287	0.238	5.22E-06	2 OCLN
6.60E-10	0.307765959	0.359	0.301	2.12E-05	2 ALCAM
7.37E-31	0.30639142	0.815	0.77	2.37E-26	2 FARP1
4.70E-05	0.306204125	0.348	0.33	1	2 METTL25
1.89E-29	0.305964647	0.998	0.998	6.06E-25	2 HFM1
1.31E-06	0.305483131	0.482	0.475	0.041958755	2 WWP2
3.57E-05	0.305239886	0.34	0.318	1	2 RPS6KA6
5.87E-05	0.305110958	0.408	0.398	1	2 BOD1L1
6.61E-10	0.304830426	0.491	0.461	2.12E-05	2 ZMIZ1
0.00095984	0.303988539	0.275	0.257	1	2 SPON2
2.42E-12	0.303409563	0.391	0.335	7.77E-08	2 ZNF532
1.18E-10	0.302857076	0.62	0.599	3.80E-06	2 PTPN4
8.52E-05	0.301685096	0.331	0.308	1	2 ATF7IP2
8.10E-25	0.301381802	0.356	0.257	2.60E-20	2 PLEKHG1
1.11E-07	0.299438995	0.311	0.272	0.003574899	2 VOPP1
2.79E-11	0.299236378	0.289	0.234	8.97E-07	2 DNAI4
6.95E-08	0.29845163	0.471	0.456	0.002232759	2 ZNF586
1.85E-05	0.297541576	0.288	0.261	0.594865384	2 MSH2
1.63E-32	0.29742578	0.917	0.824	5.24E-28	2 BICC1
6.93E-08	0.296589676	0.388	0.361	0.002224174	2 GUSBP17
7.38E-06	0.295810934	0.354	0.335	0.237173128	2 ASB3
5.77E-07	0.294385036	0.495	0.497	0.01852686	2 SIL1
2.46E-43	0.293718459	0.707	0.52	7.90E-39	2 OSBPL3
2.73E-13	0.2935926	0.615	0.573	8.78E-09	2 FAM160A1
3.54E-08	0.292580627	0.326	0.286	0.001137373	2 TMEM164
1.11E-05	0.292521837	0.297	0.268	0.35747451	2 JUP
3.13E-06	0.291708063	0.413	0.398	0.100469375	2 PCNX2
0.00096638	0.291672511	0.25	0.231	1	2 LNC-LBCS
1.61E-10	0.29153318	0.523	0.487	5.18E-06	2 CCDC30
4.54E-08	0.291272319	0.389	0.355	0.001457263	2 ITGB5
9.11E-18	0.291111704	0.744	0.713	2.92E-13	2 MACROD2
6.17E-09	0.290735704	0.46	0.438	0.000198113	2 DPY19L1P1
3.06E-31	0.290620537	0.793	0.67	9.84E-27	2 AC005208.1
1.36E-07	0.290596992	0.374	0.343	0.004382379	2 CCDC57
8.56E-13	0.290334198	0.424	0.362	2.75E-08	2 GRHL2
0.00014493	0.290293549	0.297	0.277	1	2 GUSBP3
1.09E-25	0.289828516	0.829	0.781	3.51E-21	2 FGD4
0.00072091	0.289766467	0.252	0.234	1	2 SCGB2B2
3.40E-06	0.289127091	0.413	0.395	0.109233552	2 GRAMD1C
5.75E-23	0.289082314	0.375	0.281	1.85E-18	2 PIP5K1B
6.17E-06	0.288888478	0.455	0.45	0.198305354	2 TFCEP2
2.07E-40	0.28886929	0.415	0.274	6.66E-36	2 ADAMTS17
1.90E-09	0.287286635	0.25	0.201	6.10E-05	2 GOLM1
1.35E-07	0.286890939	0.415	0.389	0.004323033	2 AL589935.1
1.33E-05	0.284531083	0.463	0.456	0.426398349	2 SRSF10
5.50E-08	0.283964875	0.283	0.24	0.001765098	2 PANK1
1.19E-05	0.283900284	0.384	0.368	0.382808293	2 BCL2L14

7.08E-06	0.283325323	0.441	0.439	0.227516054	2 GUSBP16
1.81E-06	0.282797867	0.538	0.528	0.058258869	2 UBA6-AS1
4.21E-06	0.28265199	0.374	0.351	0.135288578	2 GABPB1-AS1
1.13E-06	0.281822155	0.343	0.314	0.036283809	2 MOK
3.27E-12	0.281185901	0.275	0.214	1.05E-07	2 TPST2
3.01E-05	0.280668047	0.371	0.347	0.965193542	2 DSE
1.02E-23	0.279031853	0.999	0.999	3.28E-19	2 FP671120.7
1.70E-05	0.278668373	0.468	0.465	0.546638371	2 GPATCH2L
3.58E-08	0.278091994	0.602	0.604	0.00115036	2 ZNF518A
0.00041006	0.277740656	0.29	0.271	1	2 GSTO2
0.00017218	0.277389928	0.258	0.236	1	2 PXN
2.64E-06	0.277267463	0.268	0.234	0.084690577	2 TYK2
6.45E-07	0.27655486	0.344	0.308	0.020712374	2 ASXL3
3.54E-08	0.276537651	0.319	0.277	0.001137393	2 ANKRD6
2.49E-08	0.275382647	0.336	0.293	0.000799008	2 WDR91
0.00121333	0.275064118	0.28	0.265	1	2 SLC44A3
0.00154518	0.274189943	0.35	0.333	1	2 MET
2.95E-23	0.273800084	0.805	0.762	9.47E-19	2 PPP2R3A
4.62E-05	0.272772692	0.307	0.282	1	2 MLLT6
8.76E-09	0.272620472	0.513	0.478	0.000281277	2 FAAH2
0.00026059	0.270739313	0.364	0.353	1	2 PDXK
7.45E-05	0.270121511	0.489	0.485	1	2 USP45
7.77E-06	0.268726724	0.457	0.449	0.249611089	2 TTC14
6.61E-08	0.268461798	0.291	0.252	0.002124214	2 SGCE
0.0033861	0.26750173	0.275	0.263	1	2 SH2B1
6.73E-06	0.267402074	0.286	0.254	0.216260587	2 LINC00886
0.00019883	0.267287772	0.303	0.288	1	2 MSANTD2
0.00607549	0.266876715	0.367	0.366	1	2 SYTL2
8.00E-05	0.266776438	0.279	0.255	1	2 MYO5C
8.27E-06	0.265519558	0.533	0.516	0.265585244	2 MAN1A1
0.00017127	0.265227248	0.313	0.289	1	2 DSTN
3.21E-14	0.265022248	0.431	0.361	1.03E-09	2 NTN4
7.39E-07	0.264787467	0.382	0.357	0.023721419	2 BCR
2.35E-08	0.263334277	0.451	0.431	0.000755362	2 CDH12
0.00045817	0.262997392	0.437	0.434	1	2 MPHOSPH8
0.00091451	0.262354696	0.361	0.354	1	2 STAG3L5P-PVR1
0.00024754	0.261952851	0.286	0.266	1	2 SLC36A4
0.00296229	0.260667282	0.355	0.351	1	2 AHCYL1
2.06E-06	0.260557626	0.261	0.228	0.066121639	2 RNF145
6.61E-09	0.260543569	0.298	0.248	0.000212373	2 KHDRBS3
0.00013168	0.259949201	0.371	0.36	1	2 TEX9
0.00014717	0.259778762	0.281	0.259	1	2 PRRG1
0.00021755	0.259679622	0.319	0.298	1	2 OBSCN
0.00165622	0.25927982	0.334	0.327	1	2 DDX24
0.00081553	0.258046883	0.371	0.365	1	2 LINC01184
0.00319151	0.256922889	0.294	0.281	1	2 NISCH
3.75E-06	0.256430672	0.482	0.471	0.120441292	2 ZMYND8
3.49E-07	0.255850264	0.523	0.498	0.011200791	2 XKR6
2.38E-08	0.255068916	0.651	0.654	0.000764888	2 AP3B1
8.20E-06	0.254999193	0.335	0.3	0.263399153	2 AC092683.1
4.38E-11	0.254951574	0.578	0.542	1.41E-06	2 SPAG16

6.48E-05	0.254817125	0.254	0.227		1	2 TFEB
4.78E-07	0.254509092	0.295	0.256	0.015359244		2 LPIN1
0.00011845	0.25444144	0.538	0.556		1	2 LINC01278
0.00070594	0.253776402	0.314	0.299		1	2 AC138207.8
5.19E-05	0.253421033	0.359	0.34		1	2 ASPH
0.00011264	0.253335129	0.252	0.227		1	2 ARRDC3
0.00020899	0.25315275	0.336	0.317		1	2 MAPK8IP3
0.00214065	0.253076237	0.382	0.375		1	2 MTERF1
1.33E-05	0.251573881	0.315	0.282	0.425922609		2 ANKDD1A
0.00050646	0.251019966	0.312	0.296		1	2 NAA16
0	2.88528243	0.882	0.149		0	3 AFM
0	2.862770242	0.869	0.197		0	3 MIOX
0	2.760070986	0.936	0.196		0	3 PRODH2
0	2.637439196	0.992	0.416		0	3 CUBN
0	2.592403138	0.996	0.314		0	3 ACSM2B
0	2.556457653	0.764	0.204		0	3 RNF212B
0	2.542850053	0.998	0.347		0	3 ACSM2A
0	2.458492235	0.847	0.216		0	3 TINAG
0	2.389891492	0.904	0.259		0	3 SLC16A9
0	2.383697415	0.949	0.25		0	3 FTCD
0	2.345318878	0.946	0.388		0	3 SLC4A4
0	2.317753081	0.968	0.331		0	3 LRP2
0	2.301788388	0.873	0.226		0	3 SLC6A13
0	2.282459837	0.858	0.207		0	3 PAH
0	2.268535424	0.836	0.182		0	3 SLC22A6
0	2.26559011	0.89	0.252		0	3 SLC5A12
0	2.239179083	0.79	0.263		0	3 PCDH15
0	2.219960412	0.895	0.25		0	3 SLC17A1
0	2.217745075	0.805	0.245		0	3 LINC00871
0	2.209578971	0.904	0.228		0	3 SLC13A3
0	2.159866183	0.716	0.153		0	3 SLC36A2
0	2.143359027	0.717	0.14		0	3 PLG
0	2.104580804	0.802	0.181		0	3 AGXT2
0	2.09547333	0.813	0.209		0	3 GLYAT
0	2.08250149	0.873	0.304		0	3 UGT1A8
0	2.017779583	0.85	0.328		0	3 NOX4
0	2.01030622	0.854	0.277		0	3 MME
0	1.990611524	0.955	0.491		0	3 PTH1R
0	1.986228583	0.754	0.171		0	3 ALDOB
0	1.971150941	0.631	0.133		0	3 SLC34A1
0	1.950709259	0.729	0.185		0	3 SLC13A1
0	1.939018631	0.684	0.156		0	3 DPYS
0	1.913988248	0.705	0.288		0	3 CYP3A5
0	1.905936685	0.956	0.578		0	3 RAB11FIP3
0	1.895340486	0.846	0.247		0	3 GPX3
0	1.894381649	0.823	0.352		0	3 KCNJ15
0	1.873429359	0.595	0.099		0	3 AC010451.1
0	1.857741204	0.717	0.227		0	3 AC027288.3
0	1.843081024	0.858	0.512		0	3 GUSBP11
0	1.836454749	0.71	0.228		0	3 Z93403.1
0	1.813275025	0.658	0.182		0	3 XYLB

0	1.809470055	0.544	0.164	0	3 ZNF804B
0	1.803076479	0.702	0.177	0	3 AL589669.1
0	1.799530653	0.698	0.201	0	3 AL391117.1
0	1.791116407	0.783	0.304	0	3 CCDC200
0	1.783051608	0.695	0.237	0	3 ENPP7P8
0	1.770609041	0.636	0.241	0	3 SLC7A8
6.14E-307	1.757238639	0.701	0.359	1.97E-302	3 PLPPR1
0	1.749788809	0.645	0.219	0	3 FAM20C
0	1.739854526	0.784	0.244	0	3 ACSF2
0	1.734166509	0.598	0.14	0	3 SLC27A2
0	1.728565872	0.587	0.106	0	3 SLC22A8
0	1.723274607	0.701	0.221	0	3 LINC00671
0	1.720483153	0.633	0.241	0	3 AC008554.1
0	1.717674078	0.693	0.211	0	3 LINC01060
0	1.715283244	0.726	0.213	0	3 AC096577.1
0	1.714111172	0.61	0.183	0	3 RMST
0	1.713674306	0.528	0.105	0	3 ADGRG5
0	1.696953434	0.663	0.317	0	3 PDPR
0	1.693449901	0.66	0.161	0	3 SLC28A1
0	1.686658913	0.713	0.234	0	3 SLC47A1
7.53E-262	1.664278908	0.776	0.597	2.42E-257	3 ULK4
0	1.658266258	0.902	0.422	0	3 PDZD2
0	1.655757998	0.668	0.164	0	3 HNF4A
0	1.648920954	0.599	0.141	0	3 CLEC18A
0	1.63016919	0.687	0.195	0	3 ASS1
3.29E-299	1.623986099	0.561	0.22	1.06E-294	3 ARSB
0	1.617518956	0.758	0.327	0	3 CNTNAP3B
0	1.616835998	0.735	0.394	0	3 ANK2
0	1.598451567	0.526	0.124	0	3 SLC7A7
0	1.593273276	0.584	0.14	0	3 SLC17A3
0	1.588125841	0.865	0.566	0	3 FGGY
0	1.582969261	0.68	0.235	0	3 EBNA1BP2
0	1.576078034	0.743	0.263	0	3 ENPEP
0	1.570970468	0.524	0.102	0	3 SLC17A4
0	1.562373112	0.679	0.261	0	3 CNTNAP3P2
0	1.54953184	0.599	0.183	0	3 AK4
7.57E-226	1.533431363	0.343	0.096	2.43E-221	3 CACNA1E
0	1.532349748	0.778	0.417	0	3 SUGCT
0	1.526724503	0.646	0.241	0	3 RASSF4
0	1.525498532	0.89	0.596	0	3 L3MBTL4
0	1.50807923	0.555	0.143	0	3 HECW1
0	1.494056094	0.517	0.142	0	3 FIGNL1
0	1.484199583	0.751	0.428	0	3 TPCN1
3.08E-169	1.464703197	0.583	0.366	9.88E-165	3 MFSD14B
0	1.461082681	0.512	0.114	0	3 AC087762.1
0	1.458661833	0.916	0.719	0	3 LINGO1
0	1.45243578	0.495	0.153	0	3 AF228730.5
0	1.448516307	0.504	0.13	0	3 NPL
0	1.446969256	0.523	0.168	0	3 AL110292.1
0	1.446158576	0.754	0.353	0	3 BNC2
1.50E-290	1.443098967	0.723	0.421	4.82E-286	3 MSRA

0	1.437603467	0.432	0.071	0	3 LINC02499
2.55E-273	1.430184552	0.577	0.254	8.19E-269	3 NQO2
0	1.429129098	0.614	0.239	0	3 EHHADH
0	1.428427609	0.522	0.134	0	3 ABCC2
0	1.417395086	0.501	0.12	0	3 MAF
3.71E-306	1.416160591	0.658	0.302	1.19E-301	3 SLC12A6
2.23E-303	1.415551559	0.533	0.187	7.16E-299	3 MLXIPL
5.85E-274	1.413997181	0.827	0.609	1.88E-269	3 KCNQ1OT1
4.28E-300	1.411278419	0.756	0.486	1.37E-295	3 MIA2
0	1.388323154	0.541	0.154	0	3 SLC47A2
0	1.386624686	0.844	0.507	0	3 NCKAP5
3.72E-210	1.377158706	0.367	0.118	1.20E-205	3 AC011287.1
0	1.374087928	0.467	0.104	0	3 AMN
3.78E-275	1.373634057	0.813	0.6	1.21E-270	3 SRRM2
0	1.373439167	0.533	0.144	0	3 GDA
0	1.372118764	0.511	0.133	0	3 MAPT
0	1.365310815	0.517	0.115	0	3 UPB1
0	1.358091503	0.497	0.13	0	3 AC087482.1
0	1.353517332	0.542	0.175	0	3 SMIM2-AS1
7.34E-295	1.351575367	0.797	0.567	2.36E-290	3 TNS1
0	1.350085124	0.546	0.145	0	3 DPEP1
0	1.345064142	0.353	0.057	0	3 AP003400.1
7.22E-275	1.343522768	0.592	0.254	2.32E-270	3 TENM1
1.62E-291	1.343365964	0.686	0.3	5.20E-287	3 GRAMD1B
0	1.332757023	0.486	0.11	0	3 FUT6
0	1.332410919	0.364	0.066	0	3 LINC01349
0	1.330989481	0.481	0.122	0	3 PDZK1IP1
0	1.326074222	0.934	0.792	0	3 PLEKHA5
8.81E-292	1.318358333	0.819	0.572	2.83E-287	3 AC068587.4
1.19E-242	1.315302465	0.622	0.32	3.81E-238	3 C9
7.97E-270	1.308250005	0.512	0.187	2.56E-265	3 LINC01239
0	1.304779745	0.423	0.086	0	3 SLC6A19
0	1.303140224	0.46	0.107	0	3 SLC22A11
0	1.302879922	0.377	0.07	0	3 AC006305.1
5.70E-286	1.288815376	0.449	0.13	1.83E-281	3 CDH9
0	1.278928642	0.534	0.149	0	3 ANPEP
9.13E-257	1.276278887	0.463	0.159	2.93E-252	3 IGSF11
1.87E-233	1.276046163	0.548	0.244	6.02E-229	3 LSP1P4
7.62E-254	1.273646884	0.581	0.256	2.45E-249	3 PDZK1
5.37E-304	1.265769595	0.61	0.226	1.72E-299	3 RHOBTB1
7.56E-161	1.263661606	0.572	0.346	2.43E-156	3 RTTN
0	1.257235536	0.996	0.819	0	3 PTH2R
0	1.254439068	0.457	0.121	0	3 CLEC18B
4.38E-264	1.253790072	0.618	0.269	1.41E-259	3 MIR100HG
0	1.252929389	0.519	0.149	0	3 GLIS1
0	1.244055672	0.646	0.26	0	3 BBOX1
2.23E-283	1.243596455	0.449	0.135	7.16E-279	3 ABHD14A-ACY
0	1.241529352	0.378	0.076	0	3 SLC2A2
9.17E-222	1.230948014	0.721	0.497	2.94E-217	3 PPARA
9.36E-295	1.229073372	0.742	0.385	3.01E-290	3 ERFFI1
5.07E-196	1.226862136	0.693	0.492	1.63E-191	3 DMGDH

8.31E-282	1.2254131	0.636	0.267	2.67E-277	3 UGT2B7
0	1.220759031	0.401	0.091	0	3 LINC00390
9.86E-186	1.218237389	0.547	0.272	3.17E-181	3 LINC01515
1.17E-266	1.217725834	0.828	0.646	3.77E-262	3 INSR
0	1.216368387	0.302	0.044	0	3 LINC02128
4.88E-268	1.21503072	0.473	0.162	1.57E-263	3 ABCC6
1.34E-252	1.214779122	0.577	0.248	4.29E-248	3 CCNT2-AS1
3.79E-177	1.21340725	0.545	0.309	1.22E-172	3 MTARC2
8.19E-188	1.212649177	0.601	0.335	2.63E-183	3 SLC1A1
0	1.212484155	0.39	0.074	0	3 TMEM246-AS1
3.15E-177	1.21157094	0.504	0.256	1.01E-172	3 FN3K
0	1.210595062	0.398	0.093	0	3 ACSM5
0	1.209683718	0.353	0.067	0	3 KHK
1.95E-270	1.205499733	0.505	0.165	6.28E-266	3 AC004053.1
3.13E-258	1.202279513	0.422	0.131	1.01E-253	3 AP000346.1
2.44E-214	1.201648266	0.545	0.255	7.83E-210	3 BHMT2
2.36E-213	1.197347364	0.417	0.147	7.58E-209	3 RASA4B
0	1.189275914	0.372	0.084	0	3 TRPC7
3.83E-299	1.187726305	0.358	0.079	1.23E-294	3 G6PC
3.02E-147	1.187563956	0.576	0.361	9.69E-143	3 CCDC146
5.71E-244	1.186063141	0.395	0.122	1.83E-239	3 CMBL
5.70E-142	1.185690598	0.569	0.357	1.83E-137	3 SLC43A2
2.06E-239	1.181876399	0.46	0.161	6.62E-235	3 TNFRSF14
1.62E-146	1.174068123	0.471	0.242	5.21E-142	3 HNMT
1.11E-262	1.169371529	0.404	0.116	3.56E-258	3 DRAIC
4.09E-174	1.164945321	0.66	0.455	1.31E-169	3 FBXO21
1.06E-266	1.164384997	0.413	0.122	3.41E-262	3 P4HA2
0	1.163248371	0.922	0.694	0	3 DLG2
1.58E-189	1.159849673	0.479	0.211	5.07E-185	3 ALDH3A2
2.13E-149	1.153584562	0.599	0.396	6.85E-145	3 DMXL2
2.44E-220	1.153046009	0.389	0.122	7.85E-216	3 GGT1
9.14E-270	1.151633971	0.381	0.104	2.94E-265	3 AC009060.1
1.16E-186	1.149608854	0.516	0.246	3.72E-182	3 LSP1P5
1.84E-203	1.147409313	0.366	0.118	5.92E-199	3 GGT3P
2.93E-208	1.141368069	0.427	0.152	9.41E-204	3 SLC25A48
2.28E-243	1.141245759	0.425	0.133	7.31E-239	3 ATP8B4
3.67E-271	1.140915573	0.725	0.351	1.18E-266	3 PTPRD
1.68E-217	1.13887558	0.408	0.136	5.39E-213	3 SYNDIG1
0	1.131433898	0.302	0.047	0	3 AC004870.3
6.77E-149	1.131048833	0.509	0.284	2.18E-144	3 TM7SF3
7.76E-186	1.129286662	0.41	0.148	2.49E-181	3 CXXC4-AS1
1.71E-257	1.128993839	0.321	0.076	5.49E-253	3 LINC01277
0	1.127786489	0.519	0.14	0	3 CYP4A11
1.99E-206	1.125827658	0.461	0.181	6.39E-202	3 GIPC2
1.08E-244	1.125291027	0.465	0.159	3.46E-240	3 DOK6
3.75E-166	1.124761943	0.635	0.396	1.20E-161	3 MCF2L
0	1.123436106	0.423	0.099	0	3 CYP4F3
1.36E-223	1.117564165	0.82	0.556	4.37E-219	3 RALYL
6.45E-179	1.108672562	0.414	0.163	2.07E-174	3 FAAH
8.24E-210	1.10794048	0.507	0.217	2.65E-205	3 CNTNAP3
2.23E-130	1.104743277	0.726	0.6	7.18E-126	3 GOLGB1

1.44E-234	1.102277718	0.417	0.136	4.61E-230	3 ABHD6
8.67E-144	1.097426496	0.504	0.271	2.78E-139	3 D2HGDH
1.52E-256	1.096588814	0.817	0.583	4.89E-252	3 ADAMTS9
0	1.091339221	0.333	0.053	0	3 LINC01020
3.78E-253	1.089189276	0.314	0.073	1.21E-248	3 ARHGAP29-AS1
0	1.078375241	0.336	0.068	0	3 PGAP4
2.19E-142	1.075215347	0.581	0.365	7.04E-138	3 LIN52
3.90E-131	1.074194652	0.463	0.246	1.25E-126	3 AC005726.1
2.26E-252	1.071819651	0.617	0.256	7.26E-248	3 SORCS1
8.30E-258	1.070777833	0.375	0.102	2.66E-253	3 KYNU
3.95E-276	1.06811187	0.7	0.304	1.27E-271	3 SLC2A9
5.41E-239	1.066796854	0.34	0.089	1.74E-234	3 CDHR5
2.79E-263	1.064823129	0.88	0.755	8.95E-259	3 CDK14
2.16E-211	1.064256796	0.572	0.261	6.93E-207	3 PCSK5
1.04E-135	1.058048907	0.454	0.227	3.33E-131	3 DIRC3
1.34E-201	1.056578563	0.47	0.189	4.30E-197	3 SHMT1
1.81E-123	1.05651618	0.627	0.453	5.82E-119	3 KIF12
3.73E-229	1.055347789	0.36	0.104	1.20E-224	3 HSD17B14
5.49E-159	1.05407148	0.63	0.411	1.76E-154	3 HPN
1.27E-280	1.050647745	0.881	0.591	4.07E-276	3 TRPM3
1.94E-125	1.046886675	0.412	0.191	6.25E-121	3 AC004870.4
3.79E-97	1.043913676	0.546	0.38	1.22E-92	3 SHROOM4
8.68E-36	1.043237895	0.57	0.569	2.79E-31	3 RDX
9.76E-212	1.036540104	0.388	0.121	3.13E-207	3 CYP4Z1
6.80E-170	1.036315374	0.45	0.193	2.18E-165	3 IL6R
5.68E-248	1.035531336	0.316	0.076	1.82E-243	3 COTL1
8.11E-195	1.031283092	0.372	0.127	2.61E-190	3 AKR1A1
1.27E-232	1.028544222	0.411	0.125	4.08E-228	3 KCNK5
5.82E-233	1.023208673	0.375	0.109	1.87E-228	3 GLYATL1
3.53E-270	1.022804657	0.342	0.081	1.13E-265	3 SLC39A5
2.40E-190	1.022657437	0.359	0.118	7.72E-186	3 PRSS51
4.31E-122	1.022510782	0.576	0.393	1.39E-117	3 SH3YL1
1.15E-103	1.02127897	0.404	0.221	3.70E-99	3 GK
5.16E-167	1.020297281	0.433	0.184	1.66E-162	3 TTC38
1.18E-126	1.018226606	0.378	0.168	3.78E-122	3 PARP10
6.97E-223	1.017966312	0.331	0.091	2.24E-218	3 BHMT
1.24E-103	1.016803037	0.477	0.28	4.00E-99	3 AC113414.1
1.21E-70	1.013513789	0.534	0.395	3.90E-66	3 CMYA5
5.81E-262	1.011162074	0.33	0.079	1.87E-257	3 SLC7A9
9.03E-241	1.010433973	0.361	0.097	2.90E-236	3 AC004485.1
2.34E-174	1.010178883	0.369	0.133	7.53E-170	3 ASPA
6.52E-145	1.009832236	0.681	0.498	2.09E-140	3 DENND5B
3.11E-133	1.009349638	0.452	0.232	9.99E-129	3 ADAMTS9-AS1
2.55E-214	1.007855948	0.573	0.245	8.18E-210	3 PRUNE2
1.43E-238	1.007050487	0.437	0.137	4.61E-234	3 CYP4A22-AS1
0	1.006827524	0.32	0.062	0	3 AL121999.1
4.09E-186	1.006199088	0.413	0.158	1.31E-181	3 GALM
2.87E-174	1.004092566	0.69	0.432	9.21E-170	3 GALNT14
2.24E-212	1.002309559	0.855	0.767	7.19E-208	3 GOLGA4
2.09E-297	1.002300279	0.302	0.058	6.72E-293	3 XPNPEP2
3.75E-150	0.999196672	0.522	0.275	1.20E-145	3 KIAA1549

2.11E-300	0.998163965	0.322	0.066	6.78E-296	3 FMO1
1.21E-123	0.997545229	0.396	0.187	3.88E-119	3 CALM1
6.68E-74	0.995503773	0.45	0.301	2.14E-69	3 ZNF69
8.15E-222	0.99466073	0.345	0.092	2.62E-217	3 ST18
4.13E-207	0.989401851	0.355	0.104	1.33E-202	3 AC018467.1
1.15E-218	0.987847648	0.373	0.112	3.69E-214	3 LINC02027
8.20E-125	0.987124678	0.46	0.236	2.64E-120	3 COL27A1
2.25E-149	0.985879649	0.339	0.125	7.23E-145	3 RSAD1
1.95E-161	0.985399704	0.381	0.151	6.25E-157	3 SFXN2
4.28E-279	0.981044904	0.26	0.045	1.37E-274	3 SLC22A12
2.57E-129	0.978651056	0.49	0.267	8.25E-125	3 AFMID
4.26E-151	0.977036188	0.507	0.253	1.37E-146	3 CDHR3
9.83E-190	0.975761396	0.363	0.12	3.16E-185	3 LINC02275
0	0.974949687	0.929	0.861	0	3 PATJ
8.17E-131	0.974889016	0.567	0.352	2.62E-126	3 ALDH1L1
9.62E-237	0.974541799	0.328	0.084	3.09E-232	3 OR2T11
1.50E-212	0.974398814	0.332	0.094	4.82E-208	3 AL358232.1
2.20E-164	0.971729673	0.348	0.122	7.08E-160	3 DLGAP2
6.14E-131	0.969469158	0.42	0.203	1.97E-126	3 TRPV1
3.89E-156	0.96920216	0.343	0.124	1.25E-151	3 PRR5
1.59E-97	0.968771451	0.464	0.282	5.10E-93	3 ZFAT
7.07E-138	0.967431734	0.65	0.469	2.27E-133	3 CRYL1
1.48E-215	0.962542339	0.944	0.876	4.76E-211	3 SYNE2
1.74E-100	0.96035099	0.305	0.13	5.58E-96	3 AL031599.1
8.55E-221	0.958761225	0.325	0.087	2.75E-216	3 CLEC18C
6.16E-118	0.956507355	0.352	0.157	1.98E-113	3 KLKB1
1.44E-169	0.954020309	0.33	0.109	4.64E-165	3 SLC6A12
3.35E-189	0.952096258	0.711	0.41	1.08E-184	3 NLGN1
3.00E-96	0.951577635	0.449	0.266	9.65E-92	3 GANC
1.41E-149	0.950353833	0.7	0.495	4.53E-145	3 EPB41L3
3.23E-189	0.950130591	0.273	0.07	1.04E-184	3 SLC5A10
1.68E-105	0.947911197	0.357	0.169	5.40E-101	3 IQCA1
1.76E-142	0.94283054	0.56	0.314	5.67E-138	3 PRLR
9.97E-189	0.94134148	0.264	0.065	3.20E-184	3 GGTL2
2.01E-156	0.940960196	0.472	0.218	6.47E-152	3 RGL1
5.38E-134	0.937538333	0.416	0.192	1.73E-129	3 PEPD
2.10E-104	0.937191254	0.293	0.119	6.75E-100	3 GADD45A
1.32E-198	0.937133008	0.437	0.156	4.24E-194	3 CDH2
3.18E-101	0.935518386	0.627	0.504	1.02E-96	3 MAP3K13
1.19E-126	0.934823127	0.678	0.511	3.82E-122	3 HNF1A-AS1
2.14E-132	0.933898485	0.708	0.587	6.87E-128	3 VPS13A
7.67E-174	0.933393554	0.364	0.126	2.46E-169	3 FBP1
1.02E-78	0.932847489	0.465	0.313	3.27E-74	3 KLHL20
2.03E-157	0.932224709	0.402	0.163	6.53E-153	3 SLC25A42
2.53E-196	0.931745362	0.329	0.096	8.14E-192	3 MYO7B
1.26E-128	0.927285657	0.479	0.242	4.04E-124	3 SYT1
4.66E-255	0.926938067	0.337	0.081	1.50E-250	3 HAO2
1.61E-210	0.925808473	0.32	0.086	5.16E-206	3 AL033381.1
1.79E-149	0.925700217	0.32	0.111	5.74E-145	3 KHDRBS2
1.04E-79	0.92396497	0.428	0.257	3.33E-75	3 EDA
2.06E-90	0.922157099	0.451	0.276	6.63E-86	3 ACSS2

6.70E-112	0.920533541	0.459	0.247	2.15E-107	3 DDX58
4.67E-209	0.920257372	0.295	0.075	1.50E-204	3 KMO
1.21E-221	0.918162893	0.261	0.056	3.87E-217	3 GSTA2
2.77E-131	0.917625942	0.346	0.14	8.91E-127	3 LYPLAL1-AS1
7.25E-120	0.915348928	0.39	0.186	2.33E-115	3 AC012651.1
2.24E-71	0.911654878	0.511	0.391	7.18E-67	3 SUCLG1
2.47E-93	0.911326004	0.452	0.272	7.93E-89	3 SNX30
1.82E-165	0.91066799	0.307	0.096	5.84E-161	3 HPD
4.84E-88	0.905620343	0.601	0.489	1.56E-83	3 TBC1D19
2.00E-137	0.903271986	0.337	0.129	6.41E-133	3 NSMF
5.12E-86	0.901498388	0.472	0.318	1.64E-81	3 GPR89B
2.54E-48	0.901290891	0.371	0.251	8.15E-44	3 CCDC144B
9.76E-160	0.900133728	0.367	0.139	3.13E-155	3 EAF2
9.76E-137	0.892069215	0.339	0.13	3.14E-132	3 PC
1.74E-87	0.890648921	0.603	0.437	5.60E-83	3 GPAT3
3.03E-134	0.889942501	0.358	0.148	9.72E-130	3 AC116562.3
7.19E-154	0.88845049	0.327	0.116	2.31E-149	3 AC009053.3
1.06E-157	0.885200626	0.299	0.097	3.41E-153	3 LINC01322
4.26E-88	0.883393464	0.406	0.229	1.37E-83	3 DHTKD1
9.98E-130	0.882023633	0.274	0.095	3.20E-125	3 MTARC1
2.07E-94	0.880738324	0.383	0.199	6.63E-90	3 ZNF826P
1.45E-89	0.879992939	0.627	0.501	4.66E-85	3 KIFC3
5.82E-71	0.875409478	0.427	0.279	1.87E-66	3 CELSR1
1.44E-168	0.8753182	0.296	0.089	4.62E-164	3 PNPLA3
6.63E-253	0.872335673	0.252	0.046	2.13E-248	3 GDNF-AS1
3.33E-104	0.870728588	0.387	0.192	1.07E-99	3 ESR1
5.57E-139	0.870225846	0.281	0.093	1.79E-134	3 SLC26A6
6.52E-129	0.868227635	0.37	0.16	2.09E-124	3 SPATA22
2.59E-140	0.861988045	0.383	0.153	8.32E-136	3 AGMO
4.30E-92	0.861251712	0.4	0.218	1.38E-87	3 SAT2
1.92E-108	0.860170979	0.567	0.366	6.16E-104	3 FRMD4B
2.86E-104	0.857619211	0.302	0.125	9.18E-100	3 BBOX1-AS1
1.94E-181	0.856320183	0.298	0.086	6.25E-177	3 ABCC6P1
8.83E-262	0.855546295	0.251	0.044	2.84E-257	3 CTD-3080P12.3
8.15E-93	0.854796499	0.687	0.623	2.62E-88	3 DMXL1
2.58E-83	0.852259006	0.468	0.296	8.30E-79	3 LINC02334
1.12E-120	0.850777703	0.337	0.132	3.60E-116	3 LINC02147
1.11E-61	0.85074079	0.53	0.432	3.55E-57	3 AGPAT3
6.52E-76	0.850681396	0.434	0.287	2.09E-71	3 STX3
7.25E-80	0.850457787	0.399	0.233	2.33E-75	3 NPR3
5.78E-78	0.849921685	0.326	0.167	1.86E-73	3 SIGIRR
4.32E-78	0.847557243	0.434	0.264	1.39E-73	3 SCTR
2.36E-115	0.843811605	0.33	0.14	7.59E-111	3 BCAT2
1.12E-150	0.842139497	0.272	0.083	3.60E-146	3 LINC01847
2.27E-89	0.841046977	0.325	0.157	7.30E-85	3 RTKN
2.09E-74	0.840059608	0.591	0.514	6.70E-70	3 MICU1
4.10E-67	0.839800936	0.539	0.415	1.32E-62	3 EPS8L2
4.44E-156	0.839434717	0.823	0.65	1.43E-151	3 MAST4
4.60E-100	0.838814294	0.666	0.507	1.48E-95	3 PCLO
1.94E-106	0.837126469	0.443	0.24	6.23E-102	3 HGD
2.98E-115	0.835714923	0.323	0.132	9.59E-111	3 FGFR3

3.83E-107	0.834942821	0.786	0.778	1.23E-102	3 TNRC6A
1.55E-59	0.832687503	0.374	0.237	4.99E-55	3 AC127526.3
1.28E-169	0.830560855	0.286	0.083	4.10E-165	3 ENPP6
8.08E-102	0.830342557	0.66	0.525	2.60E-97	3 TLN2
1.06E-73	0.829026244	0.403	0.248	3.42E-69	3 C11orf54
4.95E-82	0.828648319	0.642	0.535	1.59E-77	3 NPIPB12
2.57E-113	0.828250122	0.301	0.119	8.26E-109	3 CHDH
2.30E-55	0.828242783	0.401	0.268	7.38E-51	3 LINC01572
8.90E-147	0.828171658	0.73	0.5	2.86E-142	3 RNF152
3.46E-110	0.827456326	0.287	0.109	1.11E-105	3 COL6A2
5.34E-72	0.827348268	0.34	0.185	1.71E-67	3 HDAC6
3.08E-134	0.823898866	0.625	0.365	9.88E-130	3 CLDN10
1.76E-79	0.821113329	0.41	0.244	5.65E-75	3 SLC22A5
1.04E-70	0.81692089	0.475	0.329	3.33E-66	3 OSBPL1A
3.36E-92	0.813370185	0.343	0.166	1.08E-87	3 SLC12A7
7.05E-97	0.812882206	0.431	0.234	2.27E-92	3 CTSH
1.47E-114	0.811401994	0.358	0.161	4.72E-110	3 RIPOR3
6.02E-188	0.806475663	0.745	0.404	1.93E-183	3 SLC16A12
1.70E-76	0.803597372	0.639	0.536	5.44E-72	3 PAX2
9.10E-87	0.801190024	0.297	0.133	2.92E-82	3 DNMI
5.39E-64	0.800021725	0.328	0.182	1.73E-59	3 PNPLA7
2.78E-69	0.798656154	0.328	0.18	8.92E-65	3 CEP135
4.93E-47	0.798098415	0.403	0.29	1.58E-42	3 TUBGCP2
1.27E-178	0.798063874	0.273	0.074	4.09E-174	3 TMEM106A
6.26E-47	0.796520594	0.532	0.46	2.01E-42	3 GON4L
5.49E-99	0.794902214	0.37	0.174	1.76E-94	3 MMADHC-DT
8.60E-129	0.79418476	0.369	0.151	2.76E-124	3 AL136234.1
6.40E-53	0.792516392	0.62	0.585	2.06E-48	3 PARGP1
5.76E-61	0.786382914	0.424	0.294	1.85E-56	3 FMO4
1.71E-158	0.785596102	0.361	0.128	5.48E-154	3 GBA3
2.84E-167	0.784153835	0.284	0.083	9.14E-163	3 IYD
5.27E-187	0.78292667	0.251	0.059	1.69E-182	3 SLC22A7
2.56E-72	0.780335947	0.559	0.437	8.23E-68	3 AC105233.4
3.37E-134	0.78022222	0.269	0.087	1.08E-129	3 FRMD1
3.57E-124	0.778542053	0.262	0.089	1.15E-119	3 GATM
4.31E-71	0.777284041	0.53	0.386	1.39E-66	3 PDGFC
2.13E-68	0.776565921	0.519	0.37	6.84E-64	3 GLDC
7.51E-80	0.77551081	0.313	0.156	2.41E-75	3 PGPEP1
1.06E-53	0.76988299	0.378	0.255	3.40E-49	3 CYP4V2
1.55E-72	0.769575874	0.456	0.289	4.99E-68	3 BNIP3L
9.05E-107	0.768199637	0.271	0.101	2.91E-102	3 ESPN
3.62E-68	0.765375153	0.399	0.255	1.16E-63	3 PBLD
4.27E-203	0.765314265	0.965	0.911	1.37E-198	3 GPHN
2.38E-56	0.76469198	0.572	0.483	7.66E-52	3 CCDC30
3.17E-44	0.761182988	0.448	0.356	1.02E-39	3 TTC21B
2.81E-56	0.760628525	0.459	0.336	9.04E-52	3 EPHX2
4.27E-118	0.760119557	0.266	0.093	1.37E-113	3 SORD
1.50E-52	0.758208865	0.53	0.447	4.80E-48	3 PUM3
1.14E-127	0.75697381	0.307	0.113	3.66E-123	3 USH1C
2.94E-161	0.756748908	0.251	0.069	9.44E-157	3 ALAD
1.77E-56	0.752940028	0.256	0.131	5.68E-52	3 CFAP299

7.48E-52	0.752606982	0.406	0.292	2.40E-47	3 GPR89A
6.19E-60	0.752176689	0.515	0.402	1.99E-55	3 MTRF1
4.73E-77	0.750086667	0.264	0.116	1.52E-72	3 NAV3
1.39E-76	0.74993328	0.351	0.188	4.47E-72	3 LRIG3
9.89E-58	0.74981109	0.528	0.422	3.18E-53	3 AC093423.3
2.63E-124	0.74691173	0.489	0.245	8.44E-120	3 ARHGAP10
3.31E-149	0.741137961	0.289	0.092	1.06E-144	3 TFEC
1.61E-65	0.740905374	0.396	0.244	5.18E-61	3 TRPV4
7.53E-73	0.738680067	0.289	0.142	2.42E-68	3 ENPP7P7
2.28E-142	0.735310046	0.674	0.409	7.32E-138	3 GPC6
5.79E-130	0.734306819	0.808	0.786	1.86E-125	3 NPIPB3
1.02E-51	0.733787112	0.498	0.407	3.27E-47	3 PPP1R21
3.02E-64	0.730697715	0.376	0.226	9.69E-60	3 NR1H4
8.22E-45	0.729695141	0.637	0.615	2.64E-40	3 PARG
6.12E-106	0.726548068	0.377	0.174	1.96E-101	3 ABI3BP
2.60E-46	0.726073232	0.388	0.266	8.35E-42	3 CDK10
5.70E-74	0.721756818	0.405	0.228	1.83E-69	3 KCNMB2
1.22E-109	0.721586396	0.261	0.095	3.91E-105	3 SCN8A
9.86E-81	0.718958962	0.709	0.647	3.17E-76	3 EHP1
7.96E-139	0.717531536	0.266	0.083	2.56E-134	3 ADORA2A-AS1
5.63E-74	0.717277466	0.337	0.177	1.81E-69	3 ABAT
4.54E-74	0.716428475	0.355	0.188	1.46E-69	3 LINC01788
5.17E-112	0.715226278	0.267	0.095	1.66E-107	3 ZYG11A
1.26E-44	0.713949124	0.486	0.393	4.06E-40	3 ACAD11
8.51E-49	0.711114578	0.331	0.209	2.73E-44	3 ENTPD5
2.82E-54	0.711097247	0.322	0.191	9.04E-50	3 BBOF1
2.67E-33	0.70830406	0.322	0.227	8.56E-29	3 MST1
1.01E-50	0.704940869	0.301	0.178	3.24E-46	3 POLD3
5.44E-36	0.704442031	0.457	0.372	1.75E-31	3 WASH7P
1.44E-38	0.701397767	0.583	0.557	4.64E-34	3 ZNF91
3.67E-108	0.699440499	0.62	0.379	1.18E-103	3 CNTN4
3.31E-103	0.697881724	0.766	0.678	1.06E-98	3 PLXDC2
1.05E-63	0.695590981	0.287	0.149	3.37E-59	3 GPR135
2.83E-73	0.693959722	0.304	0.153	9.09E-69	3 PDZK1P1
1.10E-56	0.693953216	0.623	0.588	3.52E-52	3 HIBCH
5.49E-54	0.693056711	0.376	0.241	1.76E-49	3 CERS4
1.92E-42	0.691567795	0.304	0.193	6.16E-38	3 NIT2
2.43E-38	0.691433481	0.374	0.271	7.82E-34	3 RFFL
2.10E-72	0.691411207	0.357	0.195	6.75E-68	3 PXYLP1
1.95E-65	0.690736868	0.321	0.176	6.25E-61	3 ERBB3
4.83E-25	0.688413039	0.349	0.276	1.55E-20	3 CLUH
1.07E-44	0.686817535	0.32	0.2	3.45E-40	3 MEI4
5.11E-42	0.685012499	0.271	0.162	1.64E-37	3 ASPSCR1
1.33E-139	0.679588596	0.838	0.738	4.29E-135	3 WDR72
1.75E-107	0.678465664	0.781	0.77	5.61E-103	3 NPIPB4
1.22E-76	0.677815566	0.264	0.115	3.93E-72	3 C4B
1.44E-37	0.675526373	0.569	0.529	4.62E-33	3 DHRSX
6.75E-49	0.673554579	0.252	0.135	2.17E-44	3 OCIAD2
1.81E-122	0.672862015	0.262	0.089	5.82E-118	3 CNTNAP3C
5.72E-34	0.672834102	0.377	0.281	1.84E-29	3 DIXDC1
3.70E-74	0.672785045	0.395	0.225	1.19E-69	3 PAPLN

1.99E-46	0.672412362	0.53	0.424	6.39E-42	3 AL390334.1
2.30E-45	0.672202524	0.584	0.528	7.39E-41	3 SNRNP70
1.81E-46	0.670450046	0.596	0.57	5.81E-42	3 TAF1D
5.98E-44	0.669813168	0.584	0.562	1.92E-39	3 ECHDC2
1.58E-28	0.669772166	0.399	0.322	5.08E-24	3 GAK
8.14E-50	0.666075195	0.382	0.251	2.62E-45	3 CNTN3
2.31E-84	0.665219161	0.288	0.126	7.43E-80	3 GRIA3
7.69E-122	0.664647378	0.255	0.083	2.47E-117	3 UGT2A3
8.94E-34	0.664594873	0.307	0.209	2.87E-29	3 LINC00571
7.04E-39	0.663422628	0.566	0.53	2.26E-34	3 LARP4
2.45E-62	0.663069963	0.32	0.174	7.87E-58	3 MAOB
8.63E-53	0.662650242	0.287	0.16	2.77E-48	3 SRP54-AS1
4.76E-27	0.661909057	0.375	0.298	1.53E-22	3 WASHC1
2.84E-42	0.659300269	0.416	0.302	9.13E-38	3 AC126283.2
9.87E-71	0.656484144	0.262	0.123	3.17E-66	3 IDH1
2.24E-81	0.65629399	0.311	0.144	7.18E-77	3 PHYHIPL
7.61E-22	0.656237502	0.383	0.323	2.44E-17	3 SPEF2
2.40E-24	0.654875184	0.251	0.165	7.70E-20	3 CDH20
1.95E-35	0.654769562	0.448	0.357	6.27E-31	3 PLCG1
6.47E-43	0.653473435	0.433	0.328	2.08E-38	3 CYB5A
4.04E-128	0.652125375	0.28	0.095	1.30E-123	3 ENPP2
5.61E-51	0.649600678	0.263	0.141	1.80E-46	3 AC127526.2
7.41E-105	0.649496054	0.354	0.15	2.38E-100	3 PPP1R16B
1.45E-72	0.649260585	0.274	0.129	4.65E-68	3 DPF3
5.16E-61	0.647660242	0.699	0.699	1.66E-56	3 REV3L
1.69E-42	0.646808445	0.611	0.594	5.42E-38	3 LYPLAL1
8.94E-83	0.645140673	0.299	0.135	2.87E-78	3 SH3BP2
2.08E-54	0.644812588	0.486	0.357	6.68E-50	3 PLEKHA6
2.96E-45	0.643634648	0.27	0.156	9.50E-41	3 GOLGA2P5
1.99E-97	0.643286128	0.293	0.121	6.39E-93	3 BX005040.4
4.87E-33	0.642394687	0.304	0.206	1.57E-28	3 SNTB2
1.05E-36	0.641779789	0.337	0.231	3.38E-32	3 MACROD1
4.25E-53	0.641256883	0.322	0.191	1.37E-48	3 HOGA1
2.21E-56	0.639977588	0.34	0.197	7.09E-52	3 TNFRSF21
1.25E-24	0.635772657	0.367	0.298	4.02E-20	3 ZNF75D
1.38E-91	0.633701232	0.292	0.123	4.44E-87	3 HNF4G
5.86E-60	0.632048532	0.672	0.633	1.88E-55	3 SORBS2
3.34E-58	0.630497813	0.384	0.234	1.07E-53	3 ACO1
2.58E-34	0.630188235	0.366	0.26	8.28E-30	3 CRYZL2P-SEC10
2.88E-37	0.629690621	0.578	0.527	9.25E-33	3 ANKRD26
7.69E-47	0.629259288	0.314	0.191	2.47E-42	3 LRP5
1.31E-49	0.629206532	0.71	0.706	4.20E-45	3 SON
2.59E-42	0.628847631	0.595	0.554	8.32E-38	3 AIG1
1.30E-22	0.626028377	0.313	0.237	4.17E-18	3 AGBL3
3.62E-73	0.624536501	0.252	0.111	1.16E-68	3 TTYH3
2.72E-33	0.621814404	0.426	0.332	8.74E-29	3 KIF21A
2.45E-39	0.621072578	0.301	0.19	7.86E-35	3 SLC15A2
1.62E-22	0.616554397	0.428	0.383	5.19E-18	3 PDZD8
5.15E-30	0.614632785	0.496	0.455	1.65E-25	3 MSH3
3.34E-40	0.611905546	0.26	0.153	1.07E-35	3 DDX56
1.16E-100	0.610932869	0.569	0.359	3.74E-96	3 CHRM3

1.08E-35	0.608906418	0.611	0.597	3.48E-31	3 ENOSF1
4.27E-38	0.608855333	0.417	0.309	1.37E-33	3 ADCY9
2.04E-59	0.607707509	0.268	0.137	6.56E-55	3 HDHD3
1.26E-21	0.607195901	0.407	0.354	4.04E-17	3 ATP6V0A1
2.58E-83	0.6071931	0.755	0.773	8.28E-79	3 NPIP5
1.87E-74	0.605518166	0.724	0.639	6.01E-70	3 TTC28
6.67E-26	0.60485558	0.495	0.456	2.14E-21	3 AC009120.2
2.59E-17	0.603275622	0.504	0.498	8.32E-13	3 DYNC2I1
2.06E-24	0.599980016	0.346	0.27	6.62E-20	3 UTP4
1.13E-82	0.599630813	0.792	0.703	3.64E-78	3 UBE2E2
8.97E-23	0.597945013	0.348	0.277	2.88E-18	3 SELENOO
2.70E-48	0.595878928	0.661	0.638	8.66E-44	3 TNS3
6.01E-17	0.594029256	0.43	0.41	1.93E-12	3 HERC2P3
4.99E-107	0.59291956	0.252	0.085	1.60E-102	3 AL162725.2
1.49E-49	0.5911596	0.265	0.144	4.77E-45	3 NABP1
6.32E-70	0.591094896	0.26	0.118	2.03E-65	3 GPT2
9.36E-30	0.587598873	0.295	0.201	3.01E-25	3 SEMA3B
4.62E-60	0.58628743	0.48	0.316	1.48E-55	3 LDLRAD4
2.10E-27	0.58579609	0.358	0.273	6.75E-23	3 EVC
2.18E-36	0.585056152	0.496	0.411	6.99E-32	3 SPATS2L
2.06E-68	0.584798272	0.497	0.309	6.62E-64	3 NRP1
5.34E-37	0.583437683	0.358	0.25	1.72E-32	3 EVA1A
1.34E-23	0.582408887	0.471	0.435	4.31E-19	3 LARP1
2.03E-38	0.577081324	0.437	0.333	6.52E-34	3 FREM2
1.45E-21	0.576743202	0.336	0.264	4.67E-17	3 MYO15B
4.20E-77	0.576443174	0.36	0.178	1.35E-72	3 FOXP2
1.10E-56	0.575591579	0.708	0.615	3.54E-52	3 STPG2
2.72E-41	0.574803886	0.271	0.162	8.74E-37	3 MFSD4B
2.38E-30	0.573312735	0.426	0.343	7.66E-26	3 PDE7A
2.05E-22	0.571447878	0.561	0.565	6.57E-18	3 PHF3
2.54E-24	0.569335992	0.517	0.478	8.17E-20	3 COL18A1
3.70E-16	0.568747832	0.508	0.536	1.19E-11	3 MFSD14C
1.44E-21	0.566948317	0.302	0.228	4.61E-17	3 SNHG25
1.37E-38	0.566796386	0.276	0.17	4.41E-34	3 HADH
1.42E-20	0.56369975	0.31	0.24	4.57E-16	3 SLC38A10
1.71E-27	0.563202972	0.581	0.574	5.49E-23	3 AC008695.1
3.17E-31	0.562639118	0.255	0.16	1.02E-26	3 PPP1R16A
2.72E-27	0.562294345	0.422	0.346	8.72E-23	3 ABHD15-AS1
6.55E-33	0.562239658	0.298	0.2	2.11E-28	3 CAMK2G
3.61E-49	0.559898771	0.444	0.294	1.16E-44	3 ALCAM
5.49E-21	0.559000558	0.533	0.549	1.76E-16	3 SMARCC1
1.22E-70	0.556978746	0.748	0.745	3.92E-66	3 WDFY3
4.41E-21	0.555722296	0.331	0.259	1.42E-16	3 MAST2
5.84E-30	0.555202431	0.378	0.287	1.88E-25	3 MALT1
1.74E-29	0.554489395	0.329	0.24	5.58E-25	3 MTHFS
3.96E-16	0.552689763	0.41	0.381	1.27E-11	3 NPLOC4
2.52E-45	0.55263459	0.652	0.633	8.10E-41	3 ARHGEF28
1.18E-81	0.552435971	0.305	0.137	3.80E-77	3 EPHA7
6.29E-33	0.55080192	0.492	0.406	2.02E-28	3 ASTN2
3.51E-29	0.546109529	0.463	0.39	1.13E-24	3 SLC3A1
4.85E-68	0.544402567	0.769	0.778	1.56E-63	3 CUX1

8.21E-39	0.544231527	0.317	0.202	2.64E-34	3 BAIAP2
9.08E-08	0.543344496	0.276	0.254	0.002917722	3 BIRC2
1.18E-32	0.541445967	0.507	0.415	3.78E-28	3 GHR
1.72E-36	0.540963728	0.26	0.157	5.52E-32	3 RGN
3.12E-21	0.538809007	0.489	0.477	1.00E-16	3 ADD1
2.68E-22	0.538584379	0.413	0.336	8.62E-18	3 AC034195.1
5.75E-05	0.53662183	0.346	0.351	1	3 IL3RA
6.34E-29	0.535257477	0.279	0.184	2.04E-24	3 MPP6
1.65E-28	0.532608871	0.335	0.232	5.29E-24	3 C1QTNF7-AS1
2.08E-19	0.532017572	0.308	0.239	6.67E-15	3 AC092902.4
3.26E-18	0.531985807	0.378	0.327	1.05E-13	3 NFATC3
1.18E-19	0.53160633	0.483	0.431	3.79E-15	3 KIAA0825
1.03E-59	0.528800022	0.348	0.192	3.31E-55	3 FIGN
3.69E-10	0.527369529	0.263	0.224	1.19E-05	3 BIVM-ERCC5
1.96E-29	0.526938695	0.416	0.316	6.30E-25	3 AC104123.1
1.90E-35	0.526097443	0.41	0.303	6.09E-31	3 PALM2AKAP2
2.63E-18	0.52156725	0.522	0.53	8.46E-14	3 IFT88
5.54E-14	0.520150863	0.256	0.203	1.78E-09	3 SUPT5H
3.88E-22	0.519983515	0.536	0.528	1.25E-17	3 FANCC
1.07E-56	0.519014314	0.637	0.51	3.44E-52	3 NFIA
1.74E-20	0.518359714	0.278	0.206	5.58E-16	3 ALDH7A1
3.77E-15	0.517977785	0.49	0.489	1.21E-10	3 SHLD2
7.63E-17	0.51660354	0.466	0.441	2.45E-12	3 AF127577.4
3.87E-17	0.514395893	0.299	0.241	1.24E-12	3 DNAJC16
1.29E-19	0.514225662	0.509	0.496	4.15E-15	3 ATXN7L1
3.46E-14	0.513838703	0.36	0.326	1.11E-09	3 SFXN1
1.96E-06	0.510618471	0.295	0.275	0.062852775	3 ZNF737
3.09E-27	0.510027343	0.357	0.264	9.94E-23	3 SH3GL2
1.37E-11	0.509994778	0.339	0.309	4.39E-07	3 ACADM
3.32E-21	0.508692779	0.413	0.345	1.07E-16	3 SLC16A10
6.97E-24	0.508331865	0.283	0.2	2.24E-19	3 HAGH
2.47E-10	0.507849484	0.37	0.351	7.93E-06	3 PCBP1-AS1
3.56E-07	0.507077152	0.475	0.503	0.01144871	3 ZMAT1
8.21E-20	0.506359334	0.61	0.651	2.64E-15	3 AC007000.3
2.05E-09	0.506263343	0.47	0.488	6.58E-05	3 AP2A2
2.57E-19	0.50508896	0.272	0.201	8.25E-15	3 USP2
3.50E-31	0.504771361	0.25	0.153	1.12E-26	3 MGST1
1.79E-11	0.504750244	0.527	0.548	5.74E-07	3 CPLANE1
1.05E-21	0.502554931	0.542	0.534	3.38E-17	3 NINL
5.26E-22	0.502113424	0.254	0.178	1.69E-17	3 AC141586.1
4.95E-19	0.499474786	0.254	0.186	1.59E-14	3 SLC2A11
3.82E-17	0.498024936	0.405	0.347	1.23E-12	3 CRPPA
1.72E-07	0.497628701	0.42	0.429	0.005525659	3 ACADVL
8.88E-05	0.496949658	0.413	0.444	1	3 TRIP11
1.48E-50	0.492760846	0.29	0.156	4.74E-46	3 B3GAT1-DT
3.84E-40	0.492399047	0.545	0.429	1.23E-35	3 KCNJ3
3.67E-23	0.491207253	0.6	0.631	1.18E-18	3 GLG1
2.73E-68	0.490867572	0.33	0.162	8.77E-64	3 PCK1
6.06E-11	0.486900699	0.348	0.321	1.95E-06	3 ATG4B
4.75E-29	0.484681526	0.598	0.539	1.53E-24	3 PCAT1
3.55E-15	0.483085883	0.478	0.455	1.14E-10	3 ARHGEF10L

1.70E-51	0.481873341	0.537	0.401	5.47E-47	3 GRB10
4.25E-06	0.476938812	0.401	0.422	0.136505874	3 NPIPB11
5.26E-101	0.475187066	0.973	0.918	1.69E-96	3 FHIT
8.38E-19	0.473153607	0.297	0.229	2.69E-14	3 RASSF8-AS1
6.30E-11	0.472575718	0.343	0.314	2.02E-06	3 PDPK1
1.53E-17	0.471391573	0.478	0.449	4.92E-13	3 SLC39A11
1.16E-88	0.471380979	0.778	0.726	3.74E-84	3 DIP2C
3.45E-23	0.471147583	0.663	0.693	1.11E-18	3 JPX
1.22E-55	0.470860285	0.391	0.231	3.91E-51	3 ARHGAP42
2.26E-13	0.470534196	0.274	0.223	7.27E-09	3 CNDP2
2.26E-17	0.469576653	0.55	0.556	7.26E-13	3 ADD3
4.65E-14	0.469110999	0.331	0.283	1.49E-09	3 GLCE
1.23E-08	0.467842712	0.447	0.459	0.000395434	3 AC079781.5
2.10E-21	0.467385721	0.646	0.686	6.76E-17	3 ANKHD1
1.40E-09	0.464222135	0.36	0.343	4.51E-05	3 ERI3
2.29E-24	0.461455904	0.41	0.325	7.36E-20	3 SLC22A23
1.10E-49	0.46046532	0.815	0.831	3.54E-45	3 CHD9
4.22E-26	0.459484831	0.446	0.367	1.36E-21	3 DLEU2
8.96E-23	0.457330351	0.346	0.256	2.88E-18	3 PDE3B
9.60E-12	0.457295705	0.274	0.229	3.08E-07	3 PFKFB2
9.29E-58	0.456517742	0.404	0.245	2.98E-53	3 TGFBR3
4.95E-07	0.454455277	0.324	0.307	0.015891812	3 WASH9P
3.33E-47	0.451224359	0.368	0.224	1.07E-42	3 CLIC4
3.84E-09	0.450716565	0.447	0.447	0.000123435	3 RFX7
1.23E-17	0.449991826	0.436	0.377	3.94E-13	3 LRRK2
2.99E-15	0.447688208	0.373	0.32	9.60E-11	3 RASGRF2
2.89E-19	0.447279098	0.58	0.585	9.28E-15	3 TFDP2
0.00072989	0.447100071	0.38	0.408	1	3 WASH3P
2.28E-13	0.446244714	0.502	0.505	7.32E-09	3 OSBPL8
1.98E-17	0.443761332	0.545	0.547	6.37E-13	3 CMIP
1.36E-07	0.441599053	0.365	0.355	0.004365374	3 SCP2
3.53E-09	0.439099268	0.316	0.288	0.000113407	3 L2HGDH
6.03E-05	0.439049933	0.304	0.294	1	3 PFKL
5.30E-15	0.438949231	0.583	0.627	1.70E-10	3 TSPAN9
8.45E-09	0.438121955	0.466	0.49	0.000271472	3 SGK3
1.85E-57	0.437584293	0.414	0.249	5.94E-53	3 TNIK
3.67E-09	0.435664946	0.392	0.386	0.00011794	3 ACVR1
0.0045023	0.434989016	0.372	0.401	1	3 BOD1L1
4.69E-12	0.43471919	0.345	0.307	1.51E-07	3 C1GALT1
2.98E-25	0.433150004	0.281	0.191	9.58E-21	3 GPR155
6.31E-34	0.432927185	0.352	0.233	2.03E-29	3 LINGO2
3.32E-13	0.431271637	0.292	0.239	1.06E-08	3 PANK1
7.31E-05	0.43033367	0.403	0.429	1	3 DDX46
2.65E-16	0.429850704	0.286	0.217	8.52E-12	3 ST3GAL1
0.00011744	0.429680581	0.327	0.323	1	3 RSU1
1.88E-06	0.429458098	0.306	0.283	0.060418549	3 ANKDD1A
5.28E-08	0.42887781	0.311	0.284	0.001696366	3 TRMT11
4.16E-10	0.428224129	0.27	0.223	1.34E-05	3 MAN1C1
8.04E-08	0.426727861	0.358	0.348	0.002581027	3 ZKSCAN1
0.00011353	0.42658331	0.351	0.356	1	3 KANTR
2.05E-74	0.426014661	0.455	0.267	6.57E-70	3 CALD1

4.00E-05	0.423484906	0.523	0.585	1	3 ZC3H11A
3.74E-23	0.417428342	0.508	0.444	1.20E-18	3 FAT1
3.57E-05	0.417303909	0.402	0.424	1	3 WDR59
3.07E-10	0.416941141	0.431	0.423	9.86E-06	3 GSE1
1.36E-08	0.415191312	0.27	0.232	0.000436849	3 MREG
1.07E-40	0.414805139	0.67	0.559	3.45E-36	3 DST
3.02E-11	0.414218738	0.434	0.413	9.71E-07	3 TPD52
7.38E-09	0.413234212	0.42	0.408	0.000236958	3 LINC01376
1.28E-32	0.413118858	0.53	0.436	4.10E-28	3 NCOA7
9.56E-12	0.412882788	0.394	0.359	3.07E-07	3 TTC39B
4.24E-06	0.408594997	0.286	0.266	0.13605528	3 ZNF251
6.21E-11	0.408568608	0.253	0.206	2.00E-06	3 PECR
2.40E-20	0.407570663	0.335	0.251	7.71E-16	3 EYA2
7.77E-22	0.405978893	0.292	0.211	2.50E-17	3 GPR137B
1.83E-11	0.405512598	0.669	0.744	5.87E-07	3 LUC7L3
9.89E-10	0.40502436	0.49	0.487	3.18E-05	3 RAI14
2.48E-08	0.4034154	0.414	0.401	0.000796538	3 ACSS3
3.72E-18	0.403364555	0.301	0.227	1.19E-13	3 AC010894.2
8.40E-09	0.403101436	0.628	0.7	0.000269782	3 BPTF
7.46E-15	0.402924356	0.336	0.279	2.40E-10	3 PTGR1
2.22E-14	0.400183819	0.583	0.599	7.12E-10	3 NBEA
5.52E-07	0.400148733	0.272	0.246	0.017718475	3 TRIP4
2.72E-11	0.39755797	0.545	0.547	8.73E-07	3 PELI2
1.01E-05	0.397290726	0.316	0.305	0.324643823	3 ZER1
2.26E-28	0.396864686	0.523	0.43	7.27E-24	3 BICDL1
7.96E-14	0.3951932	0.554	0.567	2.56E-09	3 FNIP2
1.37E-07	0.394455757	0.283	0.242	0.004385483	3 PPP2R2B
4.14E-08	0.392379718	0.557	0.614	0.001329848	3 WDPCP
6.39E-05	0.392284104	0.511	0.569	1	3 KIAA2026
0.00016425	0.391796687	0.478	0.544	1	3 LRRC37A3
2.10E-06	0.391278165	0.402	0.406	0.067294682	3 OGDHL
5.68E-16	0.390870207	0.367	0.303	1.82E-11	3 NR3C1
7.57E-10	0.390498443	0.401	0.378	2.43E-05	3 CDKL1
0.00250959	0.3900582	0.33	0.342	1	3 ARID4A
1.38E-11	0.389972039	0.524	0.53	4.44E-07	3 ARHGAP32
1.59E-05	0.389390092	0.252	0.23	0.51149516	3 PRKCZ
2.95E-11	0.388752221	0.35	0.303	9.48E-07	3 ZNF462
6.05E-11	0.386035694	0.526	0.549	1.94E-06	3 KIAA1958
0.00014883	0.384204812	0.393	0.405	1	3 LARP1B
2.99E-47	0.383366102	0.827	0.843	9.61E-43	3 RABGAP1L
4.01E-09	0.381302522	0.385	0.366	0.000128824	3 ENPP7P6
6.93E-08	0.380802589	0.519	0.543	0.002225702	3 INVS
1.22E-23	0.380072222	0.58	0.502	3.92E-19	3 LRP1B
0.00298073	0.379251849	0.411	0.438	1	3 CWF19L2
2.62E-22	0.378923374	0.672	0.678	8.42E-18	3 PLEKHA7
2.83E-06	0.378364926	0.511	0.558	0.09074634	3 ANKIB1
0.00531929	0.377056699	0.366	0.392	1	3 SMG1P4
5.89E-05	0.375439833	0.412	0.441	1	3 SETD3
1.11E-06	0.373996703	0.399	0.405	0.035712935	3 STX7
4.26E-07	0.373608234	0.29	0.26	0.013674966	3 NCEH1
4.33E-10	0.371456639	0.637	0.702	1.39E-05	3 SETD2

2.03E-21	0.371155889	0.707	0.773	6.52E-17	3 ASH1L
0.00025602	0.369459812	0.312	0.308	1	3 CFAP69
0.00197936	0.368540362	0.256	0.251	1	3 AP3D1
2.00E-11	0.368142297	0.292	0.239	6.41E-07	3 DZIP1
3.13E-08	0.367823556	0.287	0.251	0.001005947	3 AC006994.1
2.97E-28	0.366769708	0.77	0.73	9.55E-24	3 AC008014.1
0.00629282	0.366142772	0.254	0.251	1	3 PARP6
2.32E-07	0.365972183	0.522	0.56	0.007460702	3 AEBP2
1.79E-16	0.364567423	0.674	0.73	5.74E-12	3 KANSL1L
3.07E-06	0.363927366	0.367	0.357	0.098679665	3 STON2
4.10E-42	0.361701144	0.823	0.84	1.32E-37	3 SNX29
0.00711044	0.359538146	0.441	0.485	1	3 GOLM2
1.92E-06	0.358840975	0.292	0.266	0.061661456	3 CCDC18
1.57E-12	0.356556444	0.276	0.216	5.03E-08	3 ANKRD33B
0.00243607	0.356328933	0.266	0.263	1	3 HSP90B1
1.39E-10	0.355634154	0.331	0.288	4.45E-06	3 DHRS3
0.0068419	0.355267146	0.328	0.34	1	3 MLH3
2.40E-06	0.353961906	0.468	0.475	0.077040475	3 COBL
0.00124104	0.353721225	0.421	0.451	1	3 CDR2
1.23E-07	0.353603139	0.415	0.414	0.00395943	3 NEO1
0.00409451	0.352486329	0.446	0.501	1	3 SMG1P3
7.80E-56	0.352443126	0.942	0.843	2.51E-51	3 LRMDA
2.02E-70	0.352154741	0.977	0.87	6.49E-66	3 PKHD1
0.00024225	0.350292774	0.353	0.355	1	3 STAG3L5P-PVR1
0.00434233	0.348349717	0.566	0.653	1	3 PRRC2C
2.23E-26	0.346063176	0.82	0.852	7.17E-22	3 N4BP2L2
0.00065723	0.345605607	0.377	0.382	1	3 AC107223.1
1.34E-12	0.345211724	0.411	0.368	4.31E-08	3 MYRIP
0.00045308	0.343422875	0.564	0.656	1	3 SMG1
0.00270217	0.341433456	0.458	0.513	1	3 TPT1-AS1
1.24E-15	0.338669085	0.291	0.217	4.00E-11	3 SLC22A2
5.21E-11	0.336981014	0.607	0.673	1.67E-06	3 DENND1A
7.42E-13	0.328614197	0.564	0.597	2.38E-08	3 MAPKAP1
0.00018472	0.327781927	0.356	0.354	1	3 ACSL1
6.26E-13	0.327383753	0.449	0.388	2.01E-08	3 SGO1-AS1
1.84E-05	0.325824482	0.439	0.454	0.592216288	3 LCLAT1
0.00128709	0.32573965	0.542	0.611	1	3 CIRBP
1.02E-06	0.31540195	0.267	0.233	0.032695243	3 SLC66A2
3.84E-07	0.31517694	0.51	0.548	0.012347967	3 XPR1
9.10E-13	0.314754775	0.698	0.748	2.92E-08	3 GMDS-DT
0.00017578	0.312922823	0.261	0.236	1	3 SLC2A13
0.00019304	0.311894282	0.278	0.26	1	3 ITPRID2
7.78E-09	0.311712214	0.298	0.262	0.000250021	3 ENPP3
2.77E-24	0.311155479	0.369	0.249	8.91E-20	3 XIST
4.28E-11	0.310313689	0.354	0.304	1.38E-06	3 ABCB1
3.85E-12	0.309963315	0.316	0.253	1.24E-07	3 CHL1
2.42E-06	0.308649643	0.464	0.485	0.077795576	3 RORA-AS1
4.54E-23	0.308359074	0.737	0.775	1.46E-18	3 IGF1R
0.00441083	0.306230673	0.328	0.332	1	3 AC009690.2
2.89E-08	0.304929474	0.251	0.207	0.000927299	3 MAOA
0.00056892	0.298467444	0.602	0.682	1	3 AP005263.1

1.99E-24	0.295071702	0.561	0.449	6.40E-20	3 SAMD5
0.00020515	0.294447786	0.577	0.621	1	3 DPH6
1.31E-06	0.292938929	0.414	0.394	0.042130004	3 DIAPH2
0.00020065	0.292206447	0.531	0.575	1	3 CFLAR
0.00183087	0.292173	0.29	0.379	1	3 TPR
1.49E-07	0.291168821	0.324	0.284	0.004772056	3 AL359232.1
0.00421912	0.287500105	0.422	0.453	1	3 RIN2
1.35E-42	0.285247909	0.683	0.631	4.35E-38	3 PBX1
2.78E-05	0.281810105	0.514	0.561	0.892911121	3 RUFY3
0.0026619	0.277844962	0.325	0.322	1	3 HPCAL1
1.31E-05	0.274505756	0.496	0.51	0.42072565	3 ZHX3
5.38E-09	0.271817742	0.627	0.696	0.000172904	3 NUMB
6.04E-11	0.270890529	0.592	0.589	1.94E-06	3 TRHDE
0.00019484	0.270801069	0.602	0.663	1	3 COMMD10
5.66E-20	0.266459147	0.833	0.814	1.82E-15	3 MAPK10
0.0083233	0.265667245	0.199	0.253	1	3 CANX
6.20E-07	0.264716057	0.254	0.218	0.019898765	3 PLD1
8.39E-19	0.261143984	0.669	0.651	2.70E-14	3 NFIB
0.00119417	0.260586274	0.336	0.436	1	3 CDK12
1.84E-16	0.25685795	0.322	0.242	5.91E-12	3 KL
0	4.958778313	0.987	0.199	0	4 SLC26A7
0	4.225491222	0.987	0.12	0	4 CLNK
0	4.219849982	0.965	0.129	0	4 ADGRF5
0	3.486710593	0.86	0.078	0	4 AC013271.1
0	3.405530282	0.962	0.055	0	4 AC015910.1
0	3.292055028	0.949	0.145	0	4 GALNT17
0	3.224237222	0.95	0.453	0	4 SLIT2
0	3.184460588	0.791	0.071	0	4 HS6ST3
0	3.178729143	0.975	0.405	0	4 PACRG
0	3.045063012	0.797	0.03	0	4 NXPH2
0	3.027600403	0.963	0.224	0	4 PDE1C
0	2.99600678	0.943	0.192	0	4 ATP6V0D2
0	2.988998705	0.903	0.155	0	4 TMEM101
0	2.97708755	0.926	0.271	0	4 ABCC4
0	2.881534822	0.757	0.08	0	4 CA8
0	2.870241234	0.961	0.396	0	4 ITGA6
0	2.85906666	0.824	0.064	0	4 AC112229.4
0	2.839308779	0.917	0.048	0	4 LINC01187
0	2.775366133	0.945	0.226	0	4 RCAN2
0	2.670613035	0.898	0.331	0	4 CACNB2
0	2.665968037	0.621	0.083	0	4 CNTNAP5
0	2.662312467	0.937	0.223	0	4 SNTB1
0	2.645457035	0.887	0.055	0	4 ATP6V1C2
0	2.634371253	0.708	0.134	0	4 UAP1
0	2.624399826	0.758	0.065	0	4 LY86-AS1
0	2.541811147	0.828	0.026	0	4 KIT
0	2.529865843	0.84	0.177	0	4 ADAMTSL1
0	2.515315334	0.858	0.329	0	4 SHOC1
0	2.491966655	0.714	0.037	0	4 AC092422.1
0	2.476797792	0.952	0.434	0	4 ARHGAP18
0	2.474057584	0.725	0.025	0	4 LEF1

0	2.405068523	0.899	0.397	0	4 NRXN3
0	2.383972794	0.773	0.043	0	4 AC112229.3
0	2.345769214	0.804	0.105	0	4 DOCK10
0	2.327760704	0.799	0.011	0	4 DMRT2
0	2.304787059	0.997	0.876	0	4 MAGI1
0	2.293142773	0.805	0.152	0	4 SEMA3C
0	2.286896405	0.923	0.401	0	4 EPS8
0	2.26105605	0.756	0.056	0	4 LIMS3
0	2.254521478	0.698	0.043	0	4 THRB-AS1
0	2.216989454	0.805	0.154	0	4 ADGRF1
0	2.207959961	0.88	0.213	0	4 PSD3
0	2.134641734	0.934	0.372	0	4 MPPE2
0	2.095683397	0.962	0.567	0	4 TMEM117
0	2.076572562	0.621	0.017	0	4 STAP1
0	2.053041208	0.716	0.195	0	4 UST
0	2.04225621	0.693	0.01	0	4 AQP6
0	2.034376268	0.874	0.416	0	4 GPAT3
0	2.03170806	0.976	0.649	0	4 PTGER3
0	1.964219461	0.883	0.447	0	4 MOB1B
0	1.935982089	0.687	0.041	0	4 AC140479.3
0	1.921006096	0.75	0.229	0	4 LAMA2
0	1.911310775	0.903	0.389	0	4 TBC1D14
0	1.881046936	0.86	0.234	0	4 FYB2
0	1.86061507	0.944	0.454	0	4 GRB14
0	1.858782218	0.847	0.216	0	4 RHBG
0	1.849631347	0.919	0.509	0	4 LIMS1
0	1.815155892	0.909	0.38	0	4 PLCG2
0	1.815107996	0.929	0.568	0	4 MAPKAP1
0	1.812019823	0.978	0.806	0	4 NEDD4L
0	1.763938205	0.643	0.05	0	4 MTLN
0	1.73930722	0.687	0.057	0	4 VWASB1
0	1.711321468	0.836	0.501	0	4 CAB39
0	1.711050049	0.793	0.215	0	4 DOCK8
0	1.691979537	0.624	0.043	0	4 FAM13C
0	1.687591761	0.65	0.009	0	4 AC026333.3
0	1.656455448	0.762	0.272	0	4 PXK
0	1.649299349	0.783	0.116	0	4 CELF2
0	1.641014756	0.904	0.573	0	4 AHCYL2
0	1.626775709	0.625	0.028	0	4 SMIM34A
0	1.614623004	0.962	0.768	0	4 FOXP1
0	1.604092777	0.919	0.659	0	4 SHROOM3
0	1.58301292	0.786	0.39	0	4 GNG12
0	1.571621158	0.674	0.17	0	4 LRRC9
0	1.566618627	0.792	0.296	0	4 PRLR
0	1.555476019	0.805	0.243	0	4 INPP4A
0	1.553226089	0.601	0.089	0	4 NTN1
1.11E-170	1.539598285	0.896	0.717	3.58E-166	4 DIP2C
0	1.524681719	0.929	0.51	0	4 ABCA5
0	1.520552526	0.713	0.163	0	4 C12orf75
0	1.508211557	0.743	0.121	0	4 B3GAT1-DT
0	1.507707594	0.876	0.446	0	4 PCNX4

0	1.475874526	0.736	0.22	0	4 CHL1
0	1.472966848	0.663	0.059	0	4 IL18
0	1.467074548	0.618	0.2	0	4 TSPAN5
0	1.443708479	0.965	0.752	0	4 ITPR2
0	1.434291863	0.889	0.385	0	4 ATP6V0A4
0	1.430498325	0.719	0.22	0	4 LITAF
0	1.425102716	0.584	0.132	0	4 IRS1
0	1.421328881	0.8	0.31	0	4 GLCCI1
0	1.420089241	0.805	0.078	0	4 SLC4A9
0	1.417152592	0.938	0.453	0	4 PDE1A
0	1.408976248	0.593	0.067	0	4 KBTBD12
0	1.404008959	0.905	0.581	0	4 FOXO1
0	1.403979384	0.746	0.127	0	4 AC008438.1
0	1.38970942	0.512	0.03	0	4 AL031123.1
0	1.380268412	0.597	0.065	0	4 SYT17
9.67E-263	1.377116811	0.901	0.585	3.10E-258	4 CA12
0	1.376289369	0.687	0.187	0	4 EXOSC7
6.78E-260	1.358020071	0.776	0.435	2.18E-255	4 AC145212.1
0	1.350758152	0.55	0.043	0	4 AL691403.1
0	1.347029944	0.593	0.107	0	4 RHCG
0	1.344938089	0.823	0.423	0	4 SMURF1
2.67E-283	1.341755398	0.847	0.48	8.57E-279	4 DSCAML1
0	1.341071131	0.801	0.293	0	4 TMPRSS2
0	1.332533676	0.723	0.191	0	4 AP002884.2
0	1.32661111	0.795	0.396	0	4 ATP6V1A
0	1.325650301	0.602	0.131	0	4 LINC01091
0	1.324725457	0.443	0.026	0	4 ST8SIA6
0	1.322814933	0.607	0.112	0	4 GMPR
0	1.322272855	0.554	0.107	0	4 AP000282.1
0	1.315464256	0.908	0.566	0	4 PTPRJ
0	1.31306136	0.742	0.309	0	4 MPP7
0	1.307333818	0.594	0.035	0	4 ATP6V1G3
0	1.290176927	0.778	0.297	0	4 SLC22A23
0	1.286248024	0.691	0.232	0	4 RARB
0	1.285777263	0.977	0.774	0	4 PLCL1
0	1.282941283	0.935	0.645	0	4 MAGI3
0	1.276080923	0.737	0.328	0	4 ELOVL7
0	1.268055037	0.525	0.148	0	4 THSD7B
1.08E-234	1.262529174	0.787	0.481	3.47E-230	4 FBXO34
0	1.26224838	0.799	0.284	0	4 TMEM213
6.30E-295	1.260268065	0.868	0.49	2.02E-290	4 RNF152
0	1.258910369	0.473	0.027	0	4 SLC4A1
5.78E-289	1.256751445	0.87	0.643	1.86E-284	4 UBR3
0	1.246254121	0.629	0.133	0	4 DSG2
0	1.245571008	0.896	0.548	0	4 TBC1D4
1.14E-238	1.2276151	0.621	0.27	3.67E-234	4 LINC01090
0	1.217307728	0.942	0.681	0	4 ZSWIM6
0	1.215606725	0.484	0.013	0	4 AC013268.5
0	1.2132523	0.915	0.612	0	4 TBC1D1
0	1.204527956	0.625	0.167	0	4 CDYL2
0	1.188948131	0.32	0.046	0	4 CFTR

0	1.174902521	0.464	0.034	0	4 ITPRID1
8.38E-240	1.169276186	0.734	0.38	2.69E-235	4 GULP1
1.56E-293	1.157812535	0.757	0.387	5.02E-289	4 PPP2R5A
7.13E-278	1.147346211	0.801	0.415	2.29E-273	4 NCOA7
0	1.125643972	0.434	0.003	0	4 LINC01230
4.09E-247	1.111965548	0.831	0.495	1.31E-242	4 KIAA1328
0	1.099659994	0.837	0.382	0	4 SCIN
3.10E-271	1.093980483	0.906	0.662	9.96E-267	4 FNDC3A
0	1.092588754	0.483	0.093	0	4 AL356124.1
0	1.089837435	0.536	0.075	0	4 ITIH5
0	1.084654349	0.297	0.012	0	4 ADTRP
0	1.084443728	0.753	0.27	0	4 VAX2
1.68E-272	1.084353822	0.888	0.66	5.40E-268	4 MAP4K3
4.01E-183	1.082368153	0.657	0.338	1.29E-178	4 SGPP2
0	1.079869007	0.37	0.035	0	4 PYY
0	1.076291971	0.347	0.017	0	4 FOXI1
0	1.070564849	0.595	0.124	0	4 SIPA1L2
6.02E-230	1.068144805	0.718	0.355	1.93E-225	4 AC107223.1
0	1.067441402	0.476	0.014	0	4 AC084048.1
2.04E-273	1.067296352	0.693	0.319	6.54E-269	4 TMEM116
2.89E-149	1.0507394	0.723	0.46	9.28E-145	4 ITGAV
3.50E-185	1.047785098	0.357	0.108	1.13E-180	4 UNC5D
0	1.046215115	0.986	0.835	0	4 MUC20-OT1
0	1.042240775	0.427	0.011	0	4 GPAA1P2
0	1.037444555	0.437	0.04	0	4 SYT10
0	1.035756615	0.696	0.178	0	4 CD200
2.50E-266	1.025891268	0.827	0.513	8.03E-262	4 PPP1R12B
0	1.020356222	0.699	0.246	0	4 STIM1
6.55E-283	1.017320073	0.937	0.726	2.10E-278	4 OXR1
4.83E-260	1.011769147	0.655	0.249	1.55E-255	4 LINC02343
0	1.011076128	0.443	0.072	0	4 AC013472.1
0	1.000636518	0.479	0.073	0	4 CCBE1
1.62E-210	0.98705377	0.88	0.643	5.22E-206	4 HIPK2
2.99E-182	0.986933742	0.681	0.361	9.59E-178	4 IPCEF1
0	0.981019206	0.37	0.003	0	4 HCAR2
0	0.967566635	0.448	0.098	0	4 IGFBP5
0	0.963997085	0.666	0.207	0	4 AC068234.1
1.29E-235	0.962562129	0.764	0.43	4.13E-231	4 NRDC
5.63E-234	0.955878975	0.739	0.383	1.81E-229	4 UBL3
9.22E-304	0.955829968	0.529	0.171	2.96E-299	4 UHMK1
9.91E-220	0.955672441	0.883	0.615	3.18E-215	4 THRB
2.24E-152	0.950409541	0.769	0.467	7.20E-148	4 AC138305.1
6.97E-215	0.947687002	0.878	0.592	2.24E-210	4 ITPR1
2.49E-193	0.944444133	0.665	0.341	8.01E-189	4 JADE1
0	0.943954094	0.473	0.097	0	4 COL24A1
0	0.942119944	0.357	0.035	0	4 SVEP1
0	0.939024713	0.3	0.011	0	4 AQP5
5.39E-225	0.936168549	0.726	0.37	1.73E-220	4 PHLPP1
7.14E-191	0.931721812	0.86	0.528	2.29E-186	4 GRIP1
4.70E-186	0.928980574	0.858	0.633	1.51E-181	4 FNBP1L
5.06E-301	0.927595137	0.595	0.203	1.62E-296	4 FGF9

5.49E-168	0.927371458	0.694	0.394	1.76E-163	4 EZR
0	0.924330206	0.434	0.057	0	4 CCDC68
1.34E-229	0.921175301	0.688	0.312	4.29E-225	4 KIF21A
8.89E-252	0.919417929	0.756	0.376	2.85E-247	4 ABCC5
7.57E-264	0.918741798	0.699	0.305	2.43E-259	4 CRYBG3
0	0.916785595	0.484	0.095	0	4 STUM
2.08E-190	0.91075097	0.739	0.429	6.70E-186	4 NNT
0	0.910575194	0.331	0.029	0	4 PAK5
2.60E-237	0.910353399	0.876	0.496	8.34E-233	4 FREM1
4.78E-240	0.909362815	0.642	0.271	1.54E-235	4 GALNT10
1.84E-192	0.904875501	0.799	0.503	5.91E-188	4 PTBP3
2.97E-193	0.904159874	0.586	0.262	9.55E-189	4 TEKT4P2
3.80E-231	0.903943225	0.565	0.219	1.22E-226	4 NPC1
0	0.903311321	0.536	0.113	0	4 PARVB
1.46E-208	0.899517377	0.826	0.487	4.68E-204	4 SKAP1
3.11E-198	0.898293322	0.628	0.297	9.98E-194	4 AC024145.1
9.54E-304	0.897876549	0.596	0.204	3.06E-299	4 BAIAP2L1
4.93E-179	0.894868157	0.798	0.538	1.58E-174	4 RUFY3
8.69E-190	0.883058596	0.616	0.299	2.79E-185	4 EGLN1
3.20E-205	0.879064519	0.725	0.386	1.03E-200	4 ANXA4
7.03E-261	0.875423978	0.57	0.195	2.26E-256	4 ST3GAL1
0	0.871912951	0.426	0.027	0	4 HEPACAM2
2.10E-241	0.871716976	0.631	0.267	6.76E-237	4 DMD
5.70E-206	0.870852276	0.849	0.514	1.83E-201	4 MYO10
0	0.86896594	0.327	0.022	0	4 KCNG3
6.85E-181	0.866554065	0.766	0.477	2.20E-176	4 ASXL1
2.90E-198	0.866469507	0.787	0.458	9.33E-194	4 MYO1D
9.25E-180	0.863338849	0.765	0.438	2.97E-175	4 TXNIP
0	0.859799038	0.407	0.033	0	4 RACGAP1
1.59E-236	0.858912665	0.901	0.695	5.11E-232	4 STK3
2.76E-29	0.858253229	0.988	0.986	8.85E-25	4 MT-RNR2
0	0.857983499	0.343	0.014	0	4 UBE2QL1
2.73E-181	0.851855254	0.751	0.413	8.76E-177	4 EGFR
5.02E-196	0.849883731	0.781	0.47	1.61E-191	4 RALGPS2
1.10E-218	0.849718236	0.422	0.13	3.52E-214	4 RAB31
2.59E-170	0.848067654	0.883	0.73	8.31E-166	4 PICALM
1.27E-45	0.844651259	0.729	0.628	4.06E-41	4 MTRNR2L12
3.60E-166	0.839414179	0.778	0.475	1.16E-161	4 FBXL20
5.72E-198	0.838820802	0.929	0.797	1.84E-193	4 AC016831.6
9.10E-192	0.836040135	0.669	0.347	2.92E-187	4 PNPLA8
1.14E-198	0.834162967	0.762	0.394	3.67E-194	4 SLC16A7
4.77E-129	0.833011518	0.747	0.465	1.53E-124	4 GNG12-AS1
0	0.82941728	0.288	0.02	0	4 STAC2
0	0.827152279	0.338	0.011	0	4 LINC01739
8.78E-279	0.82472329	0.439	0.122	2.82E-274	4 ZMPSTE24
2.42E-199	0.823671196	0.349	0.101	7.78E-195	4 DSCAM
2.28E-164	0.819774287	0.377	0.129	7.33E-160	4 AL390957.1
5.94E-199	0.812969141	0.665	0.329	1.91E-194	4 ADIPOR2
1.28E-242	0.799385663	0.68	0.282	4.11E-238	4 UGT8
3.97E-180	0.79830769	0.805	0.43	1.27E-175	4 SAMD5
6.84E-230	0.797218692	0.688	0.312	2.20E-225	4 ST3GAL6

5.39E-209	0.796316461	0.633	0.292	1.73E-204	4 AMFR
0	0.796203539	0.368	0.033	0	4 EDARADD
3.83E-197	0.7948808	0.6	0.264	1.23E-192	4 TMEM65
3.00E-167	0.794023729	0.705	0.401	9.63E-163	4 SPRED2
9.67E-157	0.792062881	0.575	0.28	3.11E-152	4 ELP3
2.97E-181	0.7919536	0.783	0.437	9.53E-177	4 STK39
2.14E-162	0.79194096	0.804	0.498	6.87E-158	4 AL137782.1
2.60E-218	0.787437222	0.5	0.179	8.36E-214	4 MAPRE2
5.28E-263	0.785270524	0.997	0.972	1.70E-258	4 PDE4D
0	0.784592323	0.457	0.092	0	4 ATP6AP2
1.43E-85	0.783863099	0.425	0.228	4.60E-81	4 LIN7A
6.21E-164	0.7791518	0.663	0.351	1.99E-159	4 YAF2
2.88E-165	0.777618096	0.792	0.508	9.26E-161	4 MAP4K3-DT
3.43E-103	0.773770766	0.612	0.341	1.10E-98	4 BACE2
1.76E-249	0.771419008	0.594	0.228	5.65E-245	4 ATP9A
5.41E-197	0.770223997	0.921	0.665	1.74E-192	4 TFCP2L1
0	0.769157588	0.265	0.004	0	4 AL365394.1
3.00E-234	0.768238143	0.942	0.602	9.62E-230	4 PRKG1
5.88E-185	0.7636038	0.782	0.464	1.89E-180	4 CLIP1
5.38E-157	0.763119229	0.61	0.292	1.73E-152	4 GPRIN3
6.64E-204	0.762258965	0.559	0.229	2.13E-199	4 NSUN7
5.04E-193	0.761398209	0.66	0.313	1.62E-188	4 LIMA1
8.31E-277	0.760132523	0.542	0.162	2.67E-272	4 PCED1B
4.51E-171	0.754517382	0.819	0.537	1.45E-166	4 FOXN3
0	0.753832774	0.311	0.02	0	4 LY86
8.96E-203	0.750577346	0.598	0.258	2.88E-198	4 TMCO4
5.34E-166	0.749586289	0.595	0.274	1.71E-161	4 MAL
0	0.749120687	0.337	0.031	0	4 GRIP2
1.29E-175	0.74565965	0.773	0.416	4.14E-171	4 THSD4
2.17E-178	0.743888838	0.662	0.334	6.98E-174	4 RAD54L2
7.13E-152	0.741442971	0.635	0.309	2.29E-147	4 AL033504.1
6.67E-263	0.736473485	0.313	0.063	2.14E-258	4 RTN1
2.09E-118	0.734448018	0.714	0.444	6.71E-114	4 FAM107B
3.20E-172	0.733803382	0.521	0.225	1.03E-167	4 SPOPL
6.42E-192	0.733782328	0.475	0.17	2.06E-187	4 MBOAT1
2.10E-179	0.725691701	0.495	0.198	6.76E-175	4 TFRC
3.10E-145	0.725166773	0.691	0.365	9.96E-141	4 SIM1
4.47E-148	0.724094478	0.934	0.804	1.44E-143	4 PRKN
0	0.723880246	0.302	0.011	0	4 LEF1-AS1
5.47E-225	0.723638127	0.466	0.156	1.76E-220	4 SBF2-AS1
0	0.719331611	0.39	0.055	0	4 MAPRE3
1.08E-215	0.71842503	0.514	0.191	3.48E-211	4 ABHD2
6.61E-233	0.71713317	0.532	0.189	2.12E-228	4 PPFIBP2
3.32E-157	0.716189964	0.789	0.504	1.07E-152	4 ATP6V1H
0	0.716144714	0.321	0.05	0	4 AC008691.1
6.82E-175	0.715287731	0.422	0.146	2.19E-170	4 BDKRB2
0	0.713749876	0.331	0.025	0	4 FBN3
6.32E-173	0.711299294	0.64	0.297	2.03E-168	4 ABCA10
2.09E-152	0.71082575	0.673	0.375	6.70E-148	4 CAMSAP2
3.98E-176	0.709300356	0.6	0.282	1.28E-171	4 DAP
1.54E-205	0.705993717	0.958	0.819	4.95E-201	4 MSI2

0	0.701069153	0.47	0.121	0	4 DGKI
1.31E-73	0.696916564	0.638	0.439	4.20E-69	4 PALLD
8.76E-175	0.695743961	0.315	0.089	2.81E-170	4 EGFEM1P
7.02E-116	0.692740093	0.817	0.633	2.26E-111	4 RAPGEF2
3.41E-148	0.692582823	0.282	0.083	1.10E-143	4 MIR3681HG
6.68E-82	0.692273963	0.345	0.163	2.14E-77	4 AC138627.1
2.63E-118	0.691848594	0.675	0.424	8.46E-114	4 KIF13A
2.71E-143	0.690514001	0.769	0.475	8.70E-139	4 COL4A4
5.23E-171	0.689715095	0.409	0.145	1.68E-166	4 KCNK1
4.07E-156	0.689421177	0.429	0.168	1.31E-151	4 GAS2
2.77E-152	0.688031024	0.511	0.226	8.90E-148	4 ZDHHC3
1.55E-107	0.687945579	0.603	0.345	4.96E-103	4 MOB3B
3.10E-264	0.687694192	0.557	0.182	9.95E-260	4 DCLK2
0	0.686970678	0.324	0.029	0	4 NEURL1
1.42E-147	0.685410845	0.809	0.565	4.58E-143	4 AL359736.1
2.22E-111	0.68502072	0.691	0.457	7.12E-107	4 VAPA
1.06E-179	0.684168428	0.988	0.874	3.40E-175	4 ESRRG
2.07E-191	0.682137341	0.81	0.408	6.66E-187	4 CLCNKB
2.33E-125	0.680744852	0.71	0.437	7.49E-121	4 LMO7
1.59E-182	0.680211326	0.545	0.221	5.11E-178	4 COL6A1
3.44E-191	0.679283562	0.341	0.098	1.11E-186	4 PDE11A
0	0.677744907	0.341	0.026	0	4 FAM153B
0	0.677577157	0.261	0.011	0	4 ANKRD22
8.93E-188	0.676843929	0.52	0.208	2.87E-183	4 ATP7A
0	0.676317784	0.325	0.026	0	4 TIMD4
0	0.67612141	0.29	0.01	0	4 LINC01323
8.11E-177	0.675922598	0.64	0.316	2.61E-172	4 EXOC6
5.42E-180	0.674497868	0.925	0.695	1.74E-175	4 PRKCA
0	0.668662778	0.278	0.035	0	4 CR1L
3.11E-184	0.667776348	0.63	0.287	9.99E-180	4 NPNT
7.52E-197	0.665470986	0.455	0.154	2.41E-192	4 PLPP4
2.65E-190	0.664505058	0.457	0.164	8.51E-186	4 WNK3
1.55E-268	0.664449307	0.252	0.04	4.97E-264	4 VAT1L
1.02E-140	0.66411587	0.664	0.343	3.28E-136	4 PPARG
1.88E-114	0.66273656	0.632	0.353	6.04E-110	4 SLC43A2
3.97E-136	0.661829702	0.723	0.446	1.27E-131	4 RGPD5
3.45E-137	0.659453397	0.658	0.351	1.11E-132	4 ARNT2
9.52E-130	0.657703363	0.678	0.397	3.06E-125	4 MEMO1
1.61E-219	0.657338035	0.495	0.167	5.17E-215	4 GAS6
6.65E-209	0.656176752	0.389	0.115	2.14E-204	4 SH2D4A
1.84E-168	0.653053418	0.477	0.184	5.90E-164	4 PLCH1
1.16E-139	0.651667683	0.866	0.533	3.71E-135	4 EFNA5
3.87E-154	0.651208831	0.624	0.32	1.24E-149	4 SPTLC2
2.51E-176	0.650526289	0.604	0.27	8.05E-172	4 CDH1
0	0.648776102	0.356	0.038	0	4 FAM153A
5.59E-209	0.646779839	0.422	0.134	1.80E-204	4 MUC20P1
0	0.646060098	0.285	0.017	0	4 LINC01768
1.20E-132	0.644022941	0.739	0.469	3.84E-128	4 PRKAA2
1.41E-164	0.643636403	0.614	0.285	4.54E-160	4 SUSD1
0	0.642650516	0.266	0.019	0	4 UNC80
1.38E-86	0.640076808	0.676	0.436	4.44E-82	4 PPM1L

0	0.640041834	0.332	0.035	0	4 FAM153CP
1.12E-94	0.637128432	0.86	0.649	3.59E-90	4 LGR4
7.37E-176	0.636828726	0.411	0.14	2.37E-171	4 AC243772.3
1.49E-172	0.635962621	0.615	0.276	4.77E-168	4 PLCB4
7.19E-118	0.635347749	0.612	0.344	2.31E-113	4 LINC01145
1.05E-119	0.634796394	0.839	0.619	3.36E-115	4 ARHGEF28
1.56E-121	0.627166291	0.73	0.447	5.03E-117	4 MCU
1.99E-146	0.626380214	0.47	0.192	6.39E-142	4 ERC2
1.76E-122	0.626052286	0.611	0.335	5.66E-118	4 ATP10D
1.18E-125	0.625849605	0.588	0.309	3.80E-121	4 MEGF9
4.81E-147	0.625610108	0.987	0.84	1.55E-142	4 LRMDA
7.96E-140	0.623625613	0.632	0.322	2.56E-135	4 CASZ1
0	0.622007401	0.265	0.014	0	4 ELAVL2
6.49E-218	0.621628351	0.337	0.086	2.08E-213	4 FAM189A2
3.88E-118	0.619074304	0.731	0.45	1.24E-113	4 PRR5-ARHGAP8
8.98E-162	0.617290665	0.462	0.177	2.89E-157	4 SDC2
0	0.616240693	0.305	0.027	0	4 PACRG-AS3
3.31E-123	0.615348302	0.735	0.476	1.06E-118	4 SDHAP1
6.23E-209	0.614504261	0.479	0.164	2.00E-204	4 ARAP1
1.76E-101	0.613565671	0.774	0.558	5.65E-97	4 SPPL3
1.99E-140	0.611110527	0.489	0.217	6.39E-136	4 STK17A
1.08E-118	0.610663406	0.764	0.485	3.46E-114	4 TRIM2
0	0.605819337	0.419	0.081	0	4 AC092894.1
3.75E-79	0.605766357	0.737	0.545	1.20E-74	4 PPP3CA
3.66E-118	0.602525708	0.892	0.667	1.17E-113	4 THSD7A
1.44E-133	0.597917881	0.788	0.504	4.62E-129	4 DPY19L2
1.34E-178	0.597442628	0.456	0.166	4.31E-174	4 SHROOM2
3.56E-80	0.595433433	0.824	0.606	1.14E-75	4 STPG2
8.43E-111	0.593844619	0.602	0.346	2.71E-106	4 GOT1
1.29E-194	0.59292227	0.289	0.069	4.15E-190	4 CYTIP
2.12E-199	0.592082613	0.377	0.111	6.81E-195	4 AC007161.3
2.22E-217	0.590723376	0.416	0.124	7.14E-213	4 SLC25A39
2.86E-112	0.590666874	0.714	0.46	9.18E-108	4 RGPD8
6.70E-170	0.590502126	0.46	0.176	2.15E-165	4 CEP152
0	0.590056062	0.293	0.013	0	4 AF111167.1
2.75E-87	0.586278052	0.703	0.486	8.84E-83	4 PSME4
2.96E-126	0.585962473	0.495	0.232	9.50E-122	4 CHP1
8.94E-110	0.585850803	0.456	0.211	2.87E-105	4 OXCT1
1.12E-134	0.582419061	0.58	0.273	3.61E-130	4 PBX3
2.86E-62	0.581094361	0.632	0.424	9.20E-58	4 PLCL2
9.47E-272	0.579734442	0.356	0.078	3.04E-267	4 MAP3K20
4.96E-176	0.579134133	0.659	0.308	1.59E-171	4 ANKRD44
1.61E-122	0.579022797	0.5	0.236	5.18E-118	4 SINHCAF
0	0.577607498	0.32	0.057	0	4 ASB9
2.39E-117	0.577181403	0.706	0.454	7.68E-113	4 CDC42SE2
2.85E-141	0.576903069	0.531	0.237	9.16E-137	4 MTHFD1L
5.06E-99	0.57447394	0.757	0.503	1.63E-94	4 PACS1
6.69E-125	0.573675325	0.534	0.267	2.15E-120	4 SCAMP1
2.58E-116	0.573428008	0.63	0.363	8.27E-112	4 PTPN2
2.33E-132	0.573296503	0.575	0.293	7.49E-128	4 UBE2Q2P1
1.39E-144	0.571635298	0.744	0.435	4.48E-140	4 DOCK4

4.09E-106	0.563772351	0.66	0.399	1.32E-101	4 AF241726.1
1.06E-151	0.561484849	0.489	0.198	3.41E-147	4 SYK
2.22E-140	0.561438041	0.509	0.236	7.14E-136	4 WASHC3
2.11E-81	0.556384126	0.733	0.528	6.79E-77	4 LRRFIP2
2.40E-160	0.554645443	0.351	0.111	7.70E-156	4 GPT2
1.69E-70	0.554307931	0.409	0.224	5.44E-66	4 MT-ND6
2.08E-92	0.553345131	0.764	0.568	6.67E-88	4 WWP1
7.22E-229	0.553259535	0.331	0.08	2.32E-224	4 GCOM1
3.46E-90	0.552707397	0.677	0.468	1.11E-85	4 HMBOX1
6.27E-108	0.55212399	0.616	0.341	2.01E-103	4 TTC39B
1.40E-131	0.552079639	0.451	0.19	4.50E-127	4 OPRM1
1.88E-87	0.544452573	0.482	0.255	6.04E-83	4 ENOX2
4.51E-215	0.544302351	0.381	0.107	1.45E-210	4 ERO1A
7.21E-143	0.542763719	0.949	0.821	2.32E-138	4 MACF1
4.69E-97	0.542451545	0.63	0.381	1.51E-92	4 LNPEP
2.95E-91	0.540849488	0.789	0.558	9.46E-87	4 MTSS1
1.75E-248	0.539626078	0.427	0.117	5.62E-244	4 LGALS3
9.17E-130	0.538104542	0.945	0.781	2.94E-125	4 NR3C2
1.45E-51	0.535702961	0.52	0.347	4.66E-47	4 NFKB1
4.43E-93	0.535198661	0.799	0.539	1.42E-88	4 STK33
0	0.533239142	0.309	0.044	0	4 AC078883.1
2.99E-202	0.531791067	0.963	0.763	9.61E-198	4 ARL15
1.83E-118	0.531546505	0.598	0.301	5.88E-114	4 FAM110B
2.51E-181	0.531135998	0.467	0.17	8.07E-177	4 SPECC1
1.37E-142	0.529501324	0.41	0.16	4.40E-138	4 ANP32A
1.20E-82	0.52859311	0.745	0.564	3.87E-78	4 RICTOR
2.48E-86	0.527674974	0.791	0.591	7.98E-82	4 CAMTA1
1.62E-143	0.52727801	0.277	0.081	5.22E-139	4 FAM184B
5.64E-95	0.526262769	0.441	0.213	1.81E-90	4 RAPIGAP
7.98E-160	0.524570698	0.391	0.138	2.56E-155	4 FAM3C
2.08E-80	0.524135122	0.826	0.643	6.67E-76	4 PRKCE
3.54E-79	0.524042464	0.705	0.484	1.14E-74	4 UMAD1
2.34E-126	0.522673515	0.496	0.23	7.51E-122	4 PSMG4
5.18E-96	0.521834653	0.766	0.532	1.66E-91	4 FAM120B
2.94E-87	0.519757457	0.753	0.528	9.43E-83	4 XPR1
1.75E-113	0.518766051	0.386	0.163	5.62E-109	4 HERPUD1
1.16E-13	0.515515136	0.345	0.257	3.74E-09	4 HSP90B1
6.53E-122	0.51364664	0.462	0.21	2.10E-117	4 SELENOI
4.51E-114	0.511141907	0.504	0.243	1.45E-109	4 GPD2
7.40E-65	0.510821212	0.703	0.503	2.38E-60	4 ELF1
2.56E-91	0.510771413	0.582	0.316	8.22E-87	4 AC040174.1
3.17E-85	0.50845362	0.636	0.397	1.02E-80	4 SPTAN1
6.04E-115	0.506666337	0.484	0.233	1.94E-110	4 INTS9
6.44E-115	0.506665157	0.908	0.791	2.07E-110	4 SBF2
1.64E-73	0.506406094	0.843	0.707	5.28E-69	4 NCOA2
3.69E-76	0.505612693	0.719	0.48	1.19E-71	4 NOS1AP
1.18E-106	0.502485518	0.582	0.323	3.80E-102	4 LINC00869
8.49E-265	0.501858823	0.316	0.063	2.73E-260	4 LAMA3
1.23E-123	0.499710764	0.42	0.177	3.94E-119	4 MFAP3
5.11E-99	0.499433291	0.703	0.426	1.64E-94	4 MPC1
4.80E-131	0.497393957	0.734	0.383	1.54E-126	4 CLCNKA

2.60E-81	0.497262742	0.673	0.426	8.35E-77	4 RHBDD1
4.39E-113	0.496991945	0.47	0.222	1.41E-108	4 MAP1LC3A
4.92E-101	0.496326515	0.605	0.352	1.58E-96	4 PITPNB
2.34E-139	0.494629867	0.988	0.965	7.50E-135	4 ZBTB20
5.91E-115	0.493556283	0.731	0.427	1.90E-110	4 C11orf80
1.50E-101	0.492903996	0.568	0.313	4.81E-97	4 PTPN21
2.77E-103	0.491575113	0.43	0.201	8.89E-99	4 PLEKHA8
1.02E-161	0.491449731	0.988	0.748	3.27E-157	4 AC019197.1
5.04E-91	0.49055293	0.66	0.414	1.62E-86	4 ATL2
3.00E-102	0.489481428	0.543	0.277	9.63E-98	4 SH3BP4
3.11E-84	0.489344337	0.723	0.48	9.98E-80	4 ZNRF3
1.14E-51	0.489088573	0.465	0.293	3.65E-47	4 ANKH
3.14E-82	0.483914495	0.67	0.447	1.01E-77	4 SNX24
1.92E-116	0.483883192	0.439	0.19	6.16E-112	4 CKB
4.23E-71	0.48065383	0.692	0.472	1.36E-66	4 SGK3
1.47E-122	0.479380451	0.432	0.189	4.73E-118	4 METAP1
1.10E-93	0.478726733	0.812	0.574	3.53E-89	4 MIR99AHG
1.23E-105	0.475064174	0.657	0.389	3.94E-101	4 VPS37B
3.20E-90	0.472926499	0.447	0.216	1.03E-85	4 AC010894.2
1.01E-87	0.472549567	0.739	0.493	3.24E-83	4 RALGPS1
1.80E-64	0.472257784	0.652	0.438	5.78E-60	4 CLYBL
6.65E-95	0.471392886	0.707	0.452	2.14E-90	4 CDC42BPB
2.15E-90	0.470048099	0.619	0.37	6.92E-86	4 MRPS5
2.68E-217	0.469178405	0.293	0.066	8.60E-213	4 CEP85
1.44E-132	0.469132518	0.412	0.163	4.62E-128	4 KCNC4
5.41E-75	0.468378513	0.823	0.604	1.74E-70	4 SULT1C2
1.41E-148	0.467722044	0.413	0.151	4.53E-144	4 DLC1
3.73E-69	0.466591178	0.685	0.475	1.20E-64	4 MAN2A1
5.78E-82	0.466470778	0.572	0.339	1.86E-77	4 RNF169
2.26E-141	0.465508414	0.488	0.195	7.25E-137	4 TCF7L1
3.63E-83	0.464289933	0.592	0.355	1.17E-78	4 MBP
3.25E-132	0.463978054	0.428	0.174	1.04E-127	4 DDX52
4.24E-122	0.462871853	0.318	0.11	1.36E-117	4 PTGFR
2.57E-58	0.460625723	0.526	0.329	8.26E-54	4 ATP8A1
3.79E-67	0.459550094	0.773	0.561	1.22E-62	4 FAM160A1
5.27E-81	0.458358881	0.505	0.275	1.69E-76	4 ADAM22
2.28E-79	0.458255678	0.714	0.468	7.33E-75	4 FMNL2
4.41E-68	0.455901541	0.66	0.449	1.42E-63	4 FRK
6.05E-79	0.455732464	0.846	0.682	1.94E-74	4 GNAQ
3.46E-118	0.453363727	0.783	0.435	1.11E-113	4 SCN2A
6.17E-100	0.452828137	0.459	0.222	1.98E-95	4 KIF3B
7.13E-135	0.452701417	0.266	0.078	2.29E-130	4 AC241377.2
1.07E-185	0.452540705	0.27	0.064	3.44E-181	4 TMEM38A
1.23E-87	0.452085963	0.534	0.294	3.94E-83	4 CPPED1
1.84E-90	0.451341708	0.523	0.284	5.92E-86	4 LINC00623
4.54E-76	0.451339505	0.678	0.456	1.46E-71	4 CAPZB
5.53E-101	0.450700696	0.449	0.212	1.78E-96	4 CBR3-AS1
9.58E-110	0.450329048	0.394	0.169	3.08E-105	4 PEX7
6.22E-89	0.449712998	0.348	0.152	2.00E-84	4 GCGR
3.68E-89	0.448407073	0.48	0.25	1.18E-84	4 MYO19
4.01E-65	0.446684922	0.698	0.474	1.29E-60	4 SLC44A3-AS1

9.36E-87	0.446427335	0.343	0.152	3.01E-82	4 IQSEC1
1.63E-76	0.445431916	0.55	0.317	5.22E-72	4 MCC
2.23E-88	0.444680438	0.445	0.218	7.16E-84	4 ARSJ
7.13E-69	0.442718258	0.7	0.464	2.29E-64	4 FAAH2
2.17E-46	0.441981929	0.725	0.555	6.98E-42	4 DST
1.47E-179	0.441939909	0.259	0.06	4.72E-175	4 LPAR1
1.64E-105	0.441701752	0.422	0.191	5.27E-101	4 CD9
4.57E-81	0.440998053	0.413	0.207	1.47E-76	4 AC006504.5
5.93E-62	0.439820608	0.75	0.559	1.90E-57	4 SGMS1
1.76E-154	0.439598617	0.367	0.122	5.66E-150	4 PLAG1
7.21E-93	0.438096108	0.748	0.519	2.31E-88	4 ANKS1A
8.93E-69	0.436666648	0.778	0.605	2.87E-64	4 GPATCH8
8.77E-56	0.434816478	0.669	0.48	2.82E-51	4 CLEC16A
7.15E-52	0.434338876	0.743	0.552	2.30E-47	4 FNIP2
2.56E-85	0.434267026	0.423	0.209	8.22E-81	4 SERGEF
2.57E-168	0.433794064	0.329	0.097	8.25E-164	4 CAPN13
3.48E-118	0.433191971	0.354	0.136	1.12E-113	4 ST14
1.55E-106	0.432674076	0.418	0.185	4.98E-102	4 TBC1D24
2.00E-75	0.429985542	0.679	0.421	6.43E-71	4 ALOX12P2
1.51E-61	0.429865973	0.632	0.412	4.85E-57	4 XRRRA1
2.59E-82	0.429315038	0.582	0.342	8.33E-78	4 GABARAPL1
5.82E-76	0.428212926	0.668	0.433	1.87E-71	4 RIN2
1.99E-84	0.428138005	0.764	0.523	6.40E-80	4 CYRIB
8.58E-10	0.427853925	0.63	0.573	2.76E-05	4 MT-CO1
6.15E-85	0.427632798	0.938	0.849	1.98E-80	4 RERE
2.32E-61	0.427621598	0.732	0.549	7.46E-57	4 KIF1B
9.01E-78	0.427028922	0.392	0.188	2.89E-73	4 MAP2K6
1.15E-68	0.426243722	0.753	0.553	3.70E-64	4 COG5
1.76E-66	0.425427778	0.463	0.266	5.64E-62	4 CD24
2.74E-78	0.424742459	0.876	0.731	8.80E-74	4 NFAT5
4.55E-63	0.421736727	0.511	0.301	1.46E-58	4 SLC22A15
9.42E-108	0.419871874	0.395	0.167	3.03E-103	4 ALPK3
1.12E-93	0.419783477	0.427	0.205	3.59E-89	4 WDR1
1.52E-103	0.419714678	0.361	0.151	4.90E-99	4 COX7A2L
3.39E-166	0.418534235	0.327	0.093	1.09E-161	4 FGF12
5.67E-63	0.417551018	0.873	0.741	1.82E-58	4 FBXL17
6.78E-79	0.417295065	0.465	0.254	2.18E-74	4 PLEKHB2
8.10E-172	0.417203385	0.252	0.061	2.60E-167	4 GNP NAT1
7.69E-64	0.416250794	0.775	0.574	2.47E-59	4 CPEB3
2.13E-60	0.415516834	0.464	0.277	6.84E-56	4 USP54
2.07E-89	0.413465068	0.389	0.18	6.63E-85	4 EPCAM-DT
1.19E-92	0.412676023	0.436	0.207	3.84E-88	4 NR4A1
5.54E-120	0.41225252	0.305	0.106	1.78E-115	4 SAV1
2.87E-116	0.411941753	0.323	0.118	9.22E-112	4 LONRF2
4.30E-77	0.411819954	0.675	0.415	1.38E-72	4 SCNN1A
3.24E-95	0.411558182	0.441	0.213	1.04E-90	4 TFEB
1.15E-63	0.41056719	0.637	0.423	3.71E-59	4 ARHGAP21
5.24E-59	0.410186632	0.656	0.448	1.68E-54	4 ZMIZ1
4.20E-80	0.40977155	0.532	0.308	1.35E-75	4 NHLRC2
1.16E-55	0.408693465	0.344	0.178	3.72E-51	4 HSPA1B
7.20E-92	0.408691985	0.933	0.823	2.31E-87	4 PTPRG

1.95E-68	0.408323708	0.671	0.461	6.26E-64	4 FAM13B
5.85E-69	0.407213368	0.587	0.375	1.88E-64	4 STRN
1.14E-64	0.406080665	0.727	0.523	3.65E-60	4 RNF38
1.29E-73	0.405758252	0.705	0.475	4.13E-69	4 MTUS1
9.05E-51	0.403942403	0.561	0.373	2.91E-46	4 PDZD8
1.75E-133	0.40370475	0.344	0.121	5.64E-129	4 RNASEK
2.21E-56	0.403520955	0.705	0.522	7.10E-52	4 ZFAND6
4.20E-103	0.402743836	0.471	0.225	1.35E-98	4 AC010210.1
5.68E-58	0.40137518	0.741	0.56	1.82E-53	4 PHKB
2.64E-54	0.399633535	0.391	0.219	8.48E-50	4 MDFIC
3.08E-59	0.399328545	0.582	0.376	9.90E-55	4 CPT1A
8.44E-61	0.398728692	0.279	0.127	2.71E-56	4 HSPA1A
1.42E-93	0.39816272	0.407	0.19	4.58E-89	4 PRDM4
3.97E-56	0.397573757	0.266	0.126	1.27E-51	4 EFEMP1
4.83E-57	0.397246155	0.725	0.536	1.55E-52	4 REV1
3.06E-66	0.397083715	0.796	0.593	9.84E-62	4 TBL1X
1.59E-78	0.396985352	0.832	0.638	5.10E-74	4 CPEB4
1.53E-55	0.396814615	0.887	0.774	4.90E-51	4 SETBP1
3.16E-100	0.396614048	0.301	0.114	1.01E-95	4 AMPD3
1.50E-132	0.39442567	0.745	0.385	4.81E-128	4 GRB10
2.53E-91	0.392219574	0.33	0.136	8.11E-87	4 CAMK2N1
8.45E-65	0.391674049	0.737	0.522	2.71E-60	4 DPYD
6.99E-83	0.390890666	0.392	0.189	2.25E-78	4 MKNK1
6.66E-68	0.390656999	0.748	0.543	2.14E-63	4 SRSF5
3.52E-53	0.389719229	0.74	0.562	1.13E-48	4 MRTFB
1.76E-44	0.389567888	0.757	0.608	5.64E-40	4 SPAG9
1.93E-40	0.389456145	0.821	0.681	6.21E-36	4 MTR
1.72E-54	0.388089877	0.526	0.336	5.53E-50	4 DNAJC3
6.57E-60	0.387781775	0.441	0.255	2.11E-55	4 SMARCA1
7.16E-81	0.387745186	0.409	0.199	2.30E-76	4 AL713999.2
1.44E-57	0.387420711	0.718	0.512	4.63E-53	4 GRAMD2B
1.14E-54	0.387338523	0.665	0.465	3.66E-50	4 CDK8
9.35E-94	0.387229867	0.352	0.154	3.00E-89	4 EXTL2
1.92E-53	0.387027991	0.593	0.391	6.15E-49	4 PHACTR2
3.34E-98	0.386717653	0.357	0.151	1.07E-93	4 PLEKHH1
8.29E-71	0.385431174	0.499	0.285	2.66E-66	4 LPGAT1
5.41E-45	0.384799831	0.68	0.521	1.74E-40	4 USP3
9.62E-68	0.38423448	0.479	0.27	3.09E-63	4 PKM
6.87E-77	0.382730342	0.388	0.186	2.21E-72	4 AC016705.2
5.94E-63	0.382711375	0.435	0.245	1.91E-58	4 THEM4
6.97E-97	0.381470896	0.377	0.164	2.24E-92	4 DOP1B
1.79E-73	0.38134432	0.45	0.238	5.76E-69	4 AC006994.1
2.32E-73	0.380905013	0.867	0.649	7.44E-69	4 LIMCH1
1.62E-124	0.379221129	0.253	0.074	5.20E-120	4 CPAMD8
5.46E-63	0.379181558	0.4	0.218	1.75E-58	4 RALA
2.60E-111	0.378206896	0.414	0.176	8.36E-107	4 MVB12B
4.14E-61	0.377449109	0.639	0.432	1.33E-56	4 STK24
3.04E-110	0.37624319	0.333	0.127	9.76E-106	4 ACADL
3.91E-41	0.37585877	0.673	0.521	1.26E-36	4 DCAF6
1.79E-61	0.375679784	0.341	0.168	5.73E-57	4 ANGPT1
5.12E-55	0.375645249	0.824	0.684	1.64E-50	4 RALGAPA1

6.13E-81	0.375544686	0.414	0.206	1.97E-76	4 NF2
4.27E-81	0.375503154	0.664	0.396	1.37E-76	4 ARHGEF38
2.68E-52	0.37544128	0.705	0.515	8.60E-48	4 JARID2
1.94E-110	0.375349165	0.281	0.096	6.23E-106	4 FA2H
5.33E-77	0.373554666	0.489	0.272	1.71E-72	4 HADHB
9.62E-114	0.37281538	0.325	0.121	3.09E-109	4 PDIA6
2.17E-123	0.372105941	0.324	0.112	6.97E-119	4 HLA-B
6.71E-40	0.371834602	0.845	0.705	2.15E-35	4 MACROD2
3.03E-53	0.371129586	0.794	0.614	9.73E-49	4 DDX5
9.45E-64	0.370708376	0.537	0.327	3.04E-59	4 REEP3
1.52E-46	0.370245536	0.605	0.404	4.89E-42	4 TMEM51
3.52E-47	0.370047989	0.453	0.279	1.13E-42	4 ZSWIM5
3.99E-85	0.369555407	0.412	0.203	1.28E-80	4 CLN8
4.47E-65	0.367129096	0.442	0.244	1.43E-60	4 TRAF3
3.42E-50	0.367094059	0.811	0.668	1.10E-45	4 EXT1
2.75E-49	0.3670086	0.725	0.562	8.84E-45	4 FBXW11
1.15E-64	0.365069504	0.529	0.317	3.71E-60	4 PISD
2.27E-138	0.364498213	0.295	0.091	7.28E-134	4 MINDY1
5.60E-52	0.363924628	0.644	0.456	1.80E-47	4 RNGTT
1.43E-72	0.363600124	0.486	0.272	4.60E-68	4 YWHAQ
4.23E-37	0.363458451	0.587	0.423	1.36E-32	4 VCL
3.64E-42	0.362760498	0.709	0.531	1.17E-37	4 TULP4
1.94E-76	0.362403247	0.379	0.184	6.23E-72	4 JADE3
3.72E-151	0.362364181	0.26	0.069	1.19E-146	4 DNAI3
6.49E-69	0.362345961	0.669	0.465	2.09E-64	4 RAP1B
1.01E-62	0.36116331	0.748	0.53	3.23E-58	4 CTDSPL
4.63E-86	0.360809236	0.422	0.203	1.49E-81	4 TSPAN14
2.64E-45	0.360759927	0.72	0.541	8.46E-41	4 EPB41L4A
2.03E-71	0.359331525	0.366	0.178	6.53E-67	4 ULK1
1.30E-106	0.359039067	0.259	0.084	4.17E-102	4 MAP2
8.28E-73	0.358677691	0.578	0.343	2.66E-68	4 SPTLC3
1.81E-84	0.358463179	0.393	0.186	5.81E-80	4 RGPD6
5.09E-65	0.358327153	0.455	0.256	1.64E-60	4 TBC1D12
1.26E-53	0.358260782	0.719	0.519	4.05E-49	4 KIF16B
1.26E-108	0.356970247	0.552	0.273	4.05E-104	4 CASC15
1.83E-72	0.35650012	0.388	0.194	5.88E-68	4 CAB39L
3.68E-92	0.355966272	0.429	0.197	1.18E-87	4 TLE1
3.97E-46	0.355757654	0.78	0.632	1.28E-41	4 QKI
9.62E-62	0.355728581	0.406	0.223	3.09E-57	4 TTC1
2.10E-60	0.354976101	0.678	0.465	6.74E-56	4 STX18
3.97E-95	0.354065042	0.337	0.141	1.28E-90	4 FYCO1
4.52E-59	0.352654646	0.649	0.428	1.45E-54	4 RGL3
1.74E-41	0.350215077	0.783	0.629	5.57E-37	4 TMCC1
2.91E-55	0.349551769	0.671	0.476	9.34E-51	4 KIDINS220
1.75E-44	0.348493843	0.275	0.143	5.63E-40	4 ARRDC4
6.30E-91	0.347054844	0.262	0.096	2.02E-86	4 FAM3B
1.22E-23	0.346153388	0.364	0.25	3.92E-19	4 XIST
6.28E-70	0.345535741	0.402	0.203	2.02E-65	4 SGSM2
2.27E-51	0.345241039	0.708	0.51	7.29E-47	4 EPC2
4.84E-38	0.344548647	0.568	0.406	1.55E-33	4 CYTH1
7.69E-51	0.343552138	0.573	0.383	2.47E-46	4 STT3B

2.41E-39	0.343305076	0.815	0.711	7.74E-35	4 MKLN1
9.16E-45	0.342010893	0.267	0.138	2.94E-40	4 LINC01135
8.50E-126	0.34161184	0.299	0.1	2.73E-121	4 GOLGA2P10
2.78E-43	0.340816184	0.452	0.286	8.92E-39	4 KIF9-AS1
4.78E-60	0.340142939	0.455	0.266	1.53E-55	4 RPA3
1.05E-52	0.340038354	0.66	0.451	3.36E-48	4 RNF130
3.98E-50	0.33971713	0.511	0.327	1.28E-45	4 GSPT1
3.29E-61	0.337663057	0.53	0.317	1.06E-56	4 WBP1L
9.65E-59	0.337561765	0.62	0.397	3.10E-54	4 LINC01138
4.11E-45	0.337532969	0.666	0.497	1.32E-40	4 ECPAS
5.11E-51	0.337215122	0.533	0.345	1.64E-46	4 BCL2L13
5.88E-51	0.335575235	0.551	0.366	1.89E-46	4 USO1
4.64E-72	0.335407171	0.299	0.131	1.49E-67	4 SPTBN2
1.63E-49	0.335149494	0.839	0.696	5.23E-45	4 NCOR1
3.84E-85	0.334475182	0.36	0.164	1.23E-80	4 ELK4
3.50E-60	0.333724747	0.447	0.254	1.12E-55	4 UBE2Q2P2
4.55E-91	0.33284456	0.372	0.163	1.46E-86	4 NSUN5P1
7.56E-49	0.332323582	0.647	0.454	2.43E-44	4 SREBF2
5.50E-111	0.331473802	0.292	0.103	1.77E-106	4 AC093525.2
3.85E-49	0.331337277	0.265	0.129	1.24E-44	4 KLRD1
4.05E-51	0.330469104	0.584	0.381	1.30E-46	4 GRAMD1C
1.09E-56	0.327619027	0.418	0.235	3.52E-52	4 MAP2K1
1.45E-64	0.325884567	0.725	0.514	4.66E-60	4 LIFR
1.54E-61	0.325672164	0.478	0.28	4.96E-57	4 FUBP3
4.63E-48	0.325381201	0.493	0.312	1.49E-43	4 CCNI
1.20E-51	0.324716575	0.628	0.433	3.84E-47	4 AC132008.2
1.48E-77	0.324666086	0.274	0.112	4.76E-73	4 BSG
3.76E-35	0.324551719	0.64	0.484	1.21E-30	4 DIAPH1
3.85E-61	0.324234191	0.336	0.166	1.24E-56	4 FAM169A
5.03E-57	0.321828847	0.313	0.156	1.61E-52	4 HMGCR
9.44E-53	0.321784117	0.589	0.392	3.03E-48	4 TM9SF3
2.88E-88	0.321440416	0.327	0.136	9.25E-84	4 HLA-C
2.12E-52	0.321336585	0.582	0.377	6.82E-48	4 TMLHE-AS1
6.68E-51	0.320445116	0.513	0.322	2.14E-46	4 GLUD1
5.80E-37	0.320425708	0.605	0.436	1.86E-32	4 GTF2IRD2B
2.67E-50	0.31931626	0.54	0.35	8.56E-46	4 PDHX
8.73E-53	0.318958349	0.596	0.4	2.80E-48	4 BTAF1
2.98E-43	0.31820093	0.757	0.591	9.57E-39	4 ZRANB2
3.47E-53	0.317784537	0.34	0.18	1.12E-48	4 HSPH1
1.66E-60	0.31750404	0.288	0.133	5.32E-56	4 SLC16A5
7.71E-45	0.316179024	0.632	0.448	2.48E-40	4 JAK1
2.88E-42	0.315714213	0.619	0.431	9.26E-38	4 SVIL-AS1
4.34E-64	0.315712088	0.318	0.151	1.40E-59	4 ABHD3
1.03E-62	0.315130677	0.639	0.406	3.31E-58	4 GSE1
7.61E-103	0.313586339	0.306	0.114	2.44E-98	4 ATP6V0B
4.23E-40	0.313156668	0.537	0.365	1.36E-35	4 FAM133B
6.10E-67	0.312387328	0.354	0.177	1.96E-62	4 INSIG2
2.56E-64	0.312321244	0.376	0.193	8.22E-60	4 KREMEN1
3.06E-62	0.311808765	0.685	0.425	9.83E-58	4 PRDM16
1.24E-77	0.310698317	0.291	0.123	3.99E-73	4 ARL6
9.96E-39	0.30995132	0.775	0.637	3.20E-34	4 ARIH1

2.48E-43	0.308866988	0.724	0.548	7.97E-39	4 ELF2
1.22E-58	0.30745665	0.414	0.228	3.92E-54	4 RGPD2
6.58E-49	0.307421727	0.416	0.246	2.11E-44	4 DEPDC5
1.34E-52	0.307263317	0.348	0.186	4.31E-48	4 WLS
9.96E-55	0.307148813	0.393	0.213	3.20E-50	4 MAN1C1
1.89E-74	0.30546916	0.3	0.13	6.08E-70	4 DUSP15
4.38E-61	0.304992752	0.382	0.2	1.41E-56	4 CUEDC1
2.94E-53	0.304657752	0.909	0.829	9.44E-49	4 JMJD1C
1.77E-43	0.304162243	0.651	0.464	5.69E-39	4 ASCC3
3.89E-62	0.303986708	0.366	0.19	1.25E-57	4 CRY2
7.50E-46	0.303916315	0.529	0.358	2.41E-41	4 GOLPH3
4.09E-49	0.303796475	0.625	0.421	1.31E-44	4 CMTM4
3.83E-42	0.303625753	0.577	0.392	1.23E-37	4 GTF2IRD2
1.20E-82	0.302956026	0.43	0.205	3.85E-78	4 B4GALNT3
7.51E-42	0.302747473	0.749	0.588	2.41E-37	4 RBFOX2
3.63E-56	0.302514952	0.559	0.342	1.16E-51	4 SCML1
2.68E-37	0.301905869	0.685	0.504	8.62E-33	4 MAN1A1
2.24E-37	0.301438897	0.801	0.667	7.20E-33	4 DYRK1A
8.22E-59	0.301302272	0.43	0.243	2.64E-54	4 SHTN1
1.09E-74	0.301055824	0.268	0.109	3.51E-70	4 AC025279.1
3.73E-67	0.298565989	0.253	0.106	1.20E-62	4 AL513164.1
5.91E-43	0.298368586	0.559	0.384	1.90E-38	4 ACTR3
5.23E-45	0.2972522	0.537	0.356	1.68E-40	4 NPTN
4.05E-39	0.296637643	0.751	0.588	1.30E-34	4 KTN1
4.80E-65	0.296609137	0.375	0.19	1.54E-60	4 EPCAM
3.63E-54	0.296057037	0.347	0.183	1.17E-49	4 PI4KAP1
3.40E-44	0.295699968	0.57	0.382	1.09E-39	4 TAF3
4.92E-45	0.295076851	0.621	0.438	1.58E-40	4 AC090114.3
1.99E-48	0.294682126	0.571	0.38	6.40E-44	4 RLF
1.11E-42	0.294477001	0.411	0.248	3.57E-38	4 NOVA1
1.18E-40	0.293788041	0.767	0.604	3.78E-36	4 FER
2.04E-66	0.293436555	0.264	0.113	6.54E-62	4 AC009126.1
6.14E-68	0.29280924	0.725	0.507	1.97E-63	4 RANBP2
3.78E-111	0.292690808	0.25	0.079	1.21E-106	4 PLLP
6.21E-69	0.292541582	0.271	0.116	1.99E-64	4 BTG3
1.87E-56	0.292234044	0.496	0.298	6.00E-52	4 TMEM87A
3.85E-83	0.291824958	0.263	0.101	1.24E-78	4 SLC2A12
4.37E-71	0.291715457	0.346	0.164	1.40E-66	4 SCRNI
1.07E-45	0.291526622	0.26	0.132	3.43E-41	4 PRR26
3.23E-53	0.291127103	0.687	0.46	1.04E-48	4 SPIRE1
1.75E-39	0.291113211	0.506	0.339	5.63E-35	4 SLC44A1
7.55E-53	0.291046292	0.299	0.15	2.43E-48	4 GARNL3
2.83E-36	0.290879892	0.732	0.552	9.07E-32	4 TCF25
5.95E-38	0.290010018	0.889	0.777	1.91E-33	4 FGD4
1.67E-59	0.290000375	0.414	0.228	5.36E-55	4 ENO4
3.63E-37	0.289783407	0.609	0.451	1.16E-32	4 CCDC50
3.63E-57	0.289338278	0.334	0.171	1.17E-52	4 TMEM181
4.47E-40	0.2893218	0.469	0.299	1.43E-35	4 ASXL3
5.02E-47	0.288722859	0.472	0.295	1.61E-42	4 LENG8
1.46E-36	0.28857419	0.585	0.426	4.70E-32	4 CCNT2
8.54E-43	0.288528503	0.513	0.336	2.74E-38	4 PSEN1

1.40E-49	0.28829612	0.446	0.267	4.50E-45	4 ZNF431
1.13E-37	0.288236462	0.562	0.397	3.62E-33	4 CDYL
1.09E-42	0.288129007	0.702	0.52	3.51E-38	4 TRA2A
1.79E-62	0.287454148	0.271	0.119	5.74E-58	4 BARX2
4.07E-47	0.286454533	0.545	0.35	1.31E-42	4 MGA
1.06E-46	0.286136658	0.479	0.296	3.40E-42	4 C1GALT1
4.32E-50	0.284503855	0.416	0.241	1.39E-45	4 TMEM120B
2.57E-48	0.284337151	0.318	0.17	8.24E-44	4 MPZL1
7.73E-48	0.283984049	0.518	0.328	2.48E-43	4 PRR14L
3.50E-51	0.283869344	0.471	0.286	1.12E-46	4 KDM5B
8.72E-60	0.28382744	0.331	0.162	2.80E-55	4 ECE1
2.12E-34	0.282742029	0.737	0.582	6.81E-30	4 SCAF8
1.60E-56	0.282607632	0.693	0.477	5.15E-52	4 ZFHX3
1.26E-64	0.28253252	0.398	0.207	4.04E-60	4 ZDHC13
2.81E-37	0.282037384	0.567	0.395	9.01E-33	4 FBXW4
1.66E-39	0.281536984	0.449	0.285	5.34E-35	4 ZNF420
6.52E-46	0.281177358	0.5	0.316	2.09E-41	4 PRDM2
8.27E-48	0.280872912	0.577	0.369	2.66E-43	4 AC004160.1
2.87E-60	0.280628493	0.338	0.169	9.23E-56	4 DSP
1.28E-37	0.278902707	0.475	0.314	4.10E-33	4 R3HCC1L
1.60E-51	0.277498064	0.77	0.517	5.14E-47	4 OSBPL3
4.53E-50	0.277311947	0.964	0.911	1.45E-45	4 GPHN
6.70E-35	0.277243819	0.723	0.571	2.15E-30	4 USP9X
3.32E-51	0.277182702	0.546	0.334	1.06E-46	4 SLC16A10
1.18E-57	0.277165279	0.618	0.389	3.79E-53	4 MAP3K5
3.35E-44	0.277127733	0.294	0.154	1.07E-39	4 LINC00598
1.14E-35	0.276819479	0.432	0.279	3.66E-31	4 PWWP2A
2.60E-43	0.276503201	0.437	0.267	8.34E-39	4 MRPL1
4.39E-60	0.276417941	0.268	0.122	1.41E-55	4 SOAT1
4.66E-45	0.276171143	0.541	0.359	1.50E-40	4 CACUL1
2.16E-46	0.275833328	0.398	0.231	6.94E-42	4 SCAI
3.22E-41	0.275820798	0.482	0.309	1.04E-36	4 UBA6
1.09E-34	0.275698839	0.715	0.55	3.49E-30	4 RALGAPA2
5.01E-45	0.275053092	0.521	0.338	1.61E-40	4 XRN2
7.19E-50	0.274954769	0.316	0.165	2.31E-45	4 ZBTB4
4.87E-39	0.274723003	0.406	0.249	1.57E-34	4 CCDC144B
1.08E-71	0.274620722	0.272	0.112	3.46E-67	4 SLC9A2
4.97E-71	0.27422816	0.587	0.341	1.60E-66	4 SRGAP1
1.82E-55	0.273861112	0.447	0.259	5.84E-51	4 GTF2F2
2.46E-47	0.273640205	0.412	0.244	7.90E-43	4 USP7
1.27E-42	0.273365454	0.324	0.181	4.07E-38	4 PGM1
2.50E-39	0.273247426	0.471	0.305	8.02E-35	4 BCL9
1.13E-46	0.272698494	0.431	0.257	3.63E-42	4 MAP3K3
1.17E-19	0.2726931	0.726	0.614	3.76E-15	4 TBL1XR1
6.08E-51	0.271535872	0.406	0.231	1.95E-46	4 ACAT1
1.32E-43	0.269598342	0.753	0.574	4.24E-39	4 HECTD1
1.64E-53	0.268701671	0.474	0.281	5.25E-49	4 GTF2H2B
7.50E-45	0.267861468	0.55	0.363	2.41E-40	4 FAR1
7.58E-40	0.267776807	0.521	0.348	2.43E-35	4 ZNF10
4.78E-38	0.267733838	0.569	0.393	1.54E-33	4 SMG7
3.56E-16	0.267550137	0.356	0.264	1.14E-11	4 MTCO1P12

1.30E-38	0.267364435	0.8	0.623	4.19E-34	4 SCMH1
3.37E-50	0.267065148	0.407	0.235	1.08E-45	4 RGPD4
8.96E-20	0.266885858	0.473	0.358	2.88E-15	4 MT-ND4L
5.30E-31	0.266260827	0.774	0.644	1.70E-26	4 AP3B1
6.89E-55	0.2659498	0.281	0.134	2.21E-50	4 MYH14
4.57E-42	0.265806114	0.403	0.241	1.47E-37	4 UHRF1BP1L
1.11E-102	0.265460365	0.328	0.125	3.58E-98	4 NCALD
5.11E-51	0.265000383	0.724	0.537	1.64E-46	4 PDLIM5
5.08E-46	0.264396173	0.446	0.272	1.63E-41	4 SETDB2
1.87E-43	0.264303453	0.636	0.43	6.01E-39	4 SEPTIN9
2.53E-37	0.264105722	0.881	0.791	8.13E-33	4 FAF1
5.60E-91	0.263711491	0.536	0.261	1.80E-86	4 CTTNBP2
1.92E-68	0.263658208	0.292	0.129	6.16E-64	4 INTS7
1.06E-35	0.263638234	0.467	0.313	3.40E-31	4 SACM1L
5.79E-70	0.263516713	0.32	0.147	1.86E-65	4 HIPK1
8.15E-40	0.263464598	0.285	0.156	2.62E-35	4 ANKDD1B
5.61E-61	0.262743275	0.26	0.114	1.80E-56	4 DMKN
2.32E-63	0.262553903	0.315	0.15	7.45E-59	4 GPD1L
4.55E-41	0.261833354	0.432	0.27	1.46E-36	4 KCTD20
1.95E-31	0.2613591	0.629	0.471	6.26E-27	4 PAPOLA
3.75E-35	0.260719315	0.691	0.522	1.20E-30	4 RIC1
1.13E-73	0.260390943	0.472	0.239	3.62E-69	4 HGD
1.14E-24	0.259138108	0.817	0.691	3.66E-20	4 SUMF1
7.88E-38	0.25896501	0.744	0.586	2.53E-33	4 EML4
2.06E-39	0.258586763	0.546	0.373	6.61E-35	4 MED27
6.54E-41	0.257813382	0.478	0.309	2.10E-36	4 USP22
2.74E-73	0.257297805	0.299	0.128	8.81E-69	4 USP28
7.96E-33	0.257068982	0.55	0.386	2.56E-28	4 INTS6
2.37E-42	0.256201815	0.449	0.275	7.62E-38	4 TRMT9B
4.62E-36	0.255574069	0.553	0.378	1.48E-31	4 HNF1B
5.02E-34	0.255266049	0.642	0.471	1.61E-29	4 STRBP
1.29E-39	0.255229087	0.482	0.316	4.13E-35	4 EIF3H
5.41E-56	0.255027559	0.331	0.168	1.74E-51	4 B2M
5.37E-31	0.254968426	0.824	0.697	1.73E-26	4 ITFG1
5.46E-31	0.254960684	0.674	0.517	1.75E-26	4 STX8
1.83E-39	0.254266132	0.943	0.871	5.86E-35	4 LPP
2.67E-38	0.254200899	0.623	0.449	8.57E-34	4 SREK1
4.05E-44	0.254072114	0.447	0.263	1.30E-39	4 ZNF208
1.22E-33	0.253961803	0.619	0.463	3.92E-29	4 SNX13
1.22E-25	0.253876791	0.751	0.61	3.92E-21	4 CPQ
3.81E-105	0.252994472	0.291	0.102	1.22E-100	4 CSPG4P12
1.26E-36	0.252968012	0.402	0.25	4.05E-32	4 PRRG1
6.80E-57	0.25270819	0.326	0.162	2.19E-52	4 HDAC5
9.30E-50	0.252311082	0.343	0.184	2.99E-45	4 MKKS
2.20E-41	0.251856732	0.485	0.308	7.06E-37	4 INPP5A
3.04E-43	0.251533784	0.404	0.235	9.75E-39	4 ABR
1.15E-26	0.250845696	0.947	0.878	3.69E-22	4 WWOX
1.02E-34	0.250777831	0.444	0.286	3.29E-30	4 AC139887.2
5.20E-36	0.250740065	0.452	0.294	1.67E-31	4 BRWD3
1.10E-49	0.250708289	0.262	0.126	3.54E-45	4 CARS1
3.69E-59	0.250213727	0.494	0.272	1.18E-54	4 SCN3A

0	2.910478764	0.842	0.206	0	5 AC096577.1
0	2.837834672	0.903	0.257	0	5 FTCD
0	2.707209723	0.788	0.244	0	5 SORCS1
0	2.594541704	0.976	0.352	0	5 ACSM2A
0	2.533326492	0.665	0.215	0	5 RNF212B
0	2.532484309	0.655	0.295	0	5 CYP3A5
0	2.507852505	0.968	0.32	0	5 ACSM2B
0	2.383524614	0.796	0.255	0	5 GPX3
0	2.299688573	0.811	0.21	0	5 PRODH2
9.28E-98	2.244595969	0.697	0.637	2.98E-93	5 SLC05A1
6.76E-241	2.213453883	0.445	0.166	2.17E-236	5 FTL
0	2.173866692	0.92	0.583	0	5 RAB11FIP3
0	2.10793679	0.746	0.193	0	5 SLC22A6
0	2.054830198	0.89	0.426	0	5 PDZD2
0	2.049912836	0.597	0.139	0	5 SLC34A1
0	2.021722723	0.818	0.238	0	5 SLC13A3
0	2.007301886	0.961	0.421	0	5 CUBN
0	1.968424861	0.778	0.3	0	5 SLC2A9
2.93E-307	1.927825969	0.473	0.144	9.42E-303	5 CXXC4-AS1
0	1.908262374	0.735	0.24	0	5 SLC6A13
0	1.886886108	0.993	0.986	0	5 FP671120.4
0	1.879778421	0.884	0.499	0	5 PTH1R
5.55E-292	1.87950228	0.999	0.998	1.78E-287	5 HFM1
0	1.866233178	0.652	0.217	0	5 LINC01060
0	1.859578444	0.789	0.285	0	5 MME
0	1.852505317	0.538	0.164	0	5 AC004053.1
0	1.832061558	0.67	0.256	0	5 ACSF2
0	1.829964275	0.602	0.243	0	5 EBNA1BP2
0	1.813692567	0.62	0.197	0	5 SLC13A1
0	1.809703041	0.654	0.196	0	5 AGXT2
0	1.78750555	0.695	0.301	0	5 GRAMD1B
0	1.779469429	0.684	0.216	0	5 MIOX
0	1.749460852	0.5	0.151	0	5 CLEC18A
0	1.732520684	0.52	0.142	0	5 CYP4A11
0	1.730794567	0.664	0.276	0	5 PCDH15
0	1.730025491	0.612	0.174	0	5 AFM
2.39E-299	1.72958553	0.597	0.239	7.69E-295	5 Z93403.1
0	1.72762787	0.507	0.15	0	5 DPEP1
0	1.723173621	1	0.999	0	5 FP671120.7
0	1.714308909	0.77	0.263	0	5 SLC17A1
0	1.712231311	0.802	0.313	0	5 UGT1A8
0	1.684402866	0.571	0.207	0	5 ASS1
0	1.683785353	0.813	0.261	0	5 SLC5A12
4.68E-69	1.676673685	0.515	0.431	1.50E-64	5 FP236383.5
1.92E-285	1.655697818	0.449	0.138	6.16E-281	5 CYP4A22-AS1
7.22E-162	1.624944194	0.464	0.233	2.32E-157	5 CTSH
5.94E-224	1.614982011	0.542	0.252	1.91E-219	5 ENPP7P8
0	1.612541772	0.542	0.177	0	5 HNF4A
2.43E-265	1.596624067	0.563	0.234	7.80E-261	5 LINC00671
4.65E-222	1.594461935	0.354	0.104	1.49E-217	5 COL6A2
4.83E-291	1.563642337	0.961	0.932	1.55E-286	5 MT-RNR1

3.38E-130	1.560391459	0.783	0.823	1.09E-125	5 FP236383.3
1.09E-258	1.55063521	0.632	0.318	3.50E-254	5 CCDC200
2.22E-228	1.547796236	0.547	0.243	7.14E-224	5 AC027288.3
0	1.5430193	0.57	0.189	0	5 ALDOB
1.27E-247	1.541702915	0.486	0.177	4.07E-243	5 SLC28A1
0	1.52972358	0.756	0.274	0	5 SLC16A9
0	1.529011406	0.836	0.4	0	5 SLC4A4
1.78E-255	1.520759047	0.389	0.112	5.72E-251	5 AMN
7.43E-302	1.50775312	0.609	0.229	2.39E-297	5 GLYAT
3.51E-300	1.503990127	0.818	0.462	1.13E-295	5 FKBP5
3.43E-261	1.470613767	0.712	0.39	1.10E-256	5 ERRFI1
4.24E-268	1.469971583	0.473	0.151	1.36E-263	5 SLC17A3
1.47E-227	1.462204284	0.555	0.249	4.73E-223	5 SLC47A1
2.69E-159	1.44472106	0.348	0.132	8.63E-155	5 SH3BP2
1.48E-228	1.43639401	0.377	0.115	4.74E-224	5 SLC22A11
1.22E-230	1.427353577	0.757	0.578	3.91E-226	5 AC068587.4
1.17E-186	1.427056305	0.413	0.157	3.77E-182	5 SLC27A2
0	1.424976149	0.648	0.227	0	5 PAH
2.65E-211	1.418607203	0.484	0.194	8.51E-207	5 AK4
2.75E-100	1.416836354	0.503	0.358	8.82E-96	5 ALDH1L1
2.10E-182	1.412959702	0.646	0.438	6.74E-178	5 TPCN1
7.59E-214	1.402959266	0.52	0.217	2.44E-209	5 AL391117.1
2.39E-204	1.397717839	0.43	0.159	7.67E-200	5 ANPEP
5.54E-283	1.39416346	0.992	0.986	1.78E-278	5 MT-RNR2
2.16E-110	1.392507684	0.403	0.222	6.95E-106	5 SLC66A2
2.74E-108	1.391436017	0.347	0.158	8.79E-104	5 CDH20
3.77E-64	1.387123519	0.539	0.475	1.21E-59	5 DHFR
6.73E-167	1.36823672	0.504	0.255	2.16E-162	5 RASSF4
6.59E-215	1.347331761	0.393	0.127	2.12E-210	5 UPB1
6.47E-233	1.347222861	0.471	0.163	2.08E-228	5 PLG
4.50E-154	1.337422586	0.421	0.187	1.45E-149	5 SMIM2-AS1
8.01E-138	1.335446629	0.578	0.402	2.57E-133	5 MCF2L
6.80E-179	1.320284086	0.37	0.13	2.19E-174	5 KCNK5
3.41E-169	1.308834681	0.35	0.121	1.09E-164	5 AC010451.1
1.43E-297	1.29974622	0.772	0.35	4.58E-293	5 LRP2
8.81E-135	1.293306868	0.328	0.128	2.83E-130	5 GGT1
4.76E-104	1.280404627	0.382	0.2	1.53E-99	5 IL6R
1.12E-179	1.279379245	0.558	0.268	3.59E-175	5 LINC00871
2.95E-125	1.275114087	0.403	0.199	9.48E-121	5 MLXIPL
1.62E-239	1.273325956	0.504	0.172	5.21E-235	5 SLC36A2
1.47E-115	1.264067293	0.278	0.105	4.71E-111	5 ACSM5
1.51E-110	1.256025442	0.282	0.108	4.84E-106	5 AC105094.2
1.52E-128	1.249627996	0.375	0.159	4.88E-124	5 PCK1
1.13E-143	1.238626198	0.33	0.124	3.62E-139	5 FUT6
1.02E-127	1.23397913	0.505	0.279	3.27E-123	5 MIR100HG
1.05E-82	1.231128805	0.42	0.274	3.37E-78	5 AFMID
4.99E-127	1.213595291	0.328	0.133	1.60E-122	5 CLEC18B
1.31E-103	1.20365336	0.491	0.317	4.21E-99	5 SLC12A6
5.01E-131	1.191375413	0.609	0.432	1.61E-126	5 MSRA
2.37E-136	1.190570741	0.355	0.144	7.62E-132	5 NPL
8.85E-170	1.186174973	0.514	0.236	2.84E-165	5 RHOBTB1

4.85E-192	1.183165612	0.777	0.607	1.56E-187	5 L3MBTL4
1.32E-71	1.18277163	0.469	0.359	4.24E-67	5 PLEKHA6
8.12E-91	1.177090407	0.514	0.371	2.61E-86	5 LIN52
3.89E-65	1.173709306	0.335	0.201	1.25E-60	5 BAIAP2
4.46E-100	1.170743964	0.278	0.115	1.43E-95	5 C4B
8.86E-124	1.164945709	0.314	0.121	2.85E-119	5 SLC17A4
2.94E-118	1.164066914	0.668	0.503	9.44E-114	5 SDK1
7.16E-203	1.163042388	0.658	0.346	2.30E-198	5 NOX4
7.10E-103	1.162521308	0.624	0.532	2.28E-98	5 GUSBP11
8.77E-98	1.161380629	0.318	0.147	2.82E-93	5 ABHD14A-ACY
3.36E-99	1.159573191	0.703	0.63	1.08E-94	5 MTRNR2L12
1.45E-55	1.159248415	0.288	0.165	4.67E-51	5 TIPARP
2.88E-133	1.155878413	0.279	0.095	9.26E-129	5 CDHR5
1.46E-192	1.148202363	0.719	0.408	4.70E-188	5 SLC16A12
4.80E-106	1.14333066	0.333	0.151	1.54E-101	5 ABCC2
1.02E-86	1.139442306	0.335	0.172	3.29E-82	5 PARP10
4.13E-55	1.138601279	0.35	0.235	1.33E-50	5 DHTKD1
2.88E-92	1.133964323	0.58	0.476	9.25E-88	5 CRYL1
2.67E-169	1.132178893	0.726	0.518	8.56E-165	5 NCKAP5
9.94E-90	1.129522879	0.282	0.125	3.19E-85	5 PRSS51
1.51E-107	1.128840259	0.31	0.129	4.84E-103	5 CYP4Z1
1.60E-134	1.124246064	0.697	0.581	5.13E-130	5 FGGY
8.64E-144	1.122658333	0.449	0.2	2.77E-139	5 AL589669.1
1.09E-81	1.121565056	0.285	0.136	3.51E-77	5 PC
4.58E-31	1.11846307	0.539	0.552	1.47E-26	5 PDE3A
5.64E-145	1.117944744	0.647	0.429	1.81E-140	5 SUGCT
9.13E-120	1.108506782	0.326	0.131	2.93E-115	5 AC087762.1
3.43E-112	1.106406354	0.338	0.149	1.10E-107	5 MAPT
7.92E-76	1.104880216	0.393	0.243	2.54E-71	5 COL27A1
1.45E-80	1.102369973	0.269	0.122	4.65E-76	5 GADD45A
2.60E-92	1.099868517	0.598	0.507	8.37E-88	5 PPARA
3.06E-100	1.097225179	0.31	0.137	9.82E-96	5 PDZK1IP1
8.20E-49	1.095882719	0.449	0.372	2.63E-44	5 CCDC146
2.90E-98	1.091861204	0.321	0.145	9.32E-94	5 AC087482.1
6.21E-91	1.088862925	0.437	0.261	2.00E-86	5 CCNT2-AS1
3.45E-134	1.087803203	0.505	0.274	1.11E-129	5 BBOX1
8.48E-61	1.084722044	0.459	0.348	2.72E-56	5 SLC1A1
3.30E-96	1.083659275	0.296	0.126	1.06E-91	5 ADGRG5
6.00E-30	1.074956909	0.368	0.308	1.93E-25	5 P4HA1
4.60E-48	1.069844477	0.375	0.264	1.48E-43	5 SLC7A8
9.27E-42	1.065751533	0.308	0.206	2.98E-37	5 ZNF826P
1.64E-116	1.06363466	0.292	0.111	5.27E-112	5 CYP4F3
5.40E-49	1.060712036	0.301	0.19	1.74E-44	5 GPR155
5.70E-49	1.050441578	0.395	0.295	1.83E-44	5 BNIP3L
4.27E-86	1.046480947	0.342	0.172	1.37E-81	5 SLC47A2
6.46E-90	1.04432748	0.253	0.103	2.07E-85	5 ESPN
1.95E-74	1.044217812	0.618	0.616	6.27E-70	5 SRRM2
4.38E-46	1.043888767	0.377	0.282	1.41E-41	5 D2HGDH
1.56E-68	1.041152594	0.357	0.208	5.00E-64	5 XYL B
4.87E-61	1.037950786	0.501	0.422	1.56E-56	5 HPN
9.20E-60	1.037415156	0.375	0.242	2.95E-55	5 FAM20C

1.97E-54	1.036442408	0.388	0.262	6.34E-50	5 AC008554.1
3.10E-49	1.036397813	0.288	0.175	9.95E-45	5 FAAH
5.83E-52	1.034584693	0.341	0.224	1.87E-47	5 ALDH3A2
9.35E-65	1.029884846	0.275	0.14	3.00E-60	5 MAF
6.18E-34	1.029612075	0.41	0.36	1.98E-29	5 PLCG1
7.02E-115	1.029425127	0.34	0.14	2.26E-110	5 CDH9
2.86E-119	1.02738051	0.563	0.345	9.18E-115	5 CNTNAP3B
2.52E-36	1.027031876	0.334	0.251	8.09E-32	5 SLC22A5
3.02E-37	1.024311053	0.446	0.404	9.71E-33	5 SH3YL1
8.40E-73	1.02385585	0.468	0.317	2.70E-68	5 LINC00278
9.63E-81	1.023000136	0.355	0.181	3.09E-76	5 ZNF804B
9.32E-56	1.021531345	0.608	0.611	2.99E-51	5 ULK4
3.15E-97	1.016423286	0.462	0.271	1.01E-92	5 PCSK5
7.88E-68	1.012813717	0.317	0.174	2.53E-63	5 TNFRSF14
1.99E-98	1.012716242	0.26	0.101	6.41E-94	5 SLC6A19
2.63E-72	1.012539876	0.269	0.128	8.43E-68	5 DRAIC
2.39E-125	1.007780072	0.489	0.248	7.67E-121	5 TINAG
8.62E-94	1.00132984	0.341	0.162	2.77E-89	5 HECW1
2.02E-55	0.997505449	0.317	0.194	6.49E-51	5 TTC38
9.89E-56	0.995858535	0.326	0.202	3.18E-51	5 SHMT1
5.74E-34	0.99239043	0.336	0.257	1.84E-29	5 AC005726.1
8.10E-63	0.98588828	0.341	0.202	2.60E-58	5 LINC01239
5.44E-59	0.982894498	0.252	0.128	1.75E-54	5 GGT3P
1.49E-49	0.982597286	0.397	0.287	4.78E-45	5 AC113414.1
9.16E-28	0.980387648	0.254	0.177	2.94E-23	5 F11-AS1
1.79E-129	0.977946627	0.412	0.18	5.74E-125	5 DPYS
1.63E-103	0.977159782	0.5	0.285	5.24E-99	5 ENPEP
2.50E-56	0.972058353	0.475	0.374	8.05E-52	5 FRMD4B
7.35E-65	0.970545183	0.279	0.144	2.36E-60	5 AP000346.1
7.53E-31	0.970357231	0.279	0.201	2.42E-26	5 HAGH
1.14E-89	0.965951705	0.327	0.153	3.65E-85	5 PPP1R16B
1.47E-93	0.964010563	0.453	0.256	4.74E-89	5 PRUNE2
2.54E-114	0.963656912	0.598	0.373	8.16E-110	5 KCNJ15
5.86E-47	0.962707601	0.284	0.173	1.88E-42	5 SLC25A42
5.52E-64	0.959481132	0.283	0.146	1.77E-59	5 ATP8B4
9.63E-26	0.95772835	0.382	0.341	3.09E-21	5 PDPR
1.32E-53	0.956518464	0.381	0.259	4.24E-49	5 EHHADH
9.75E-70	0.951156782	0.435	0.283	3.13E-65	5 CNTNAP3P2
2.11E-39	0.949823338	0.352	0.257	6.79E-35	5 DDX58
2.38E-70	0.947804996	0.292	0.145	7.66E-66	5 SLC7A7
1.99E-41	0.946226122	0.499	0.469	6.38E-37	5 FBXO21
4.04E-78	0.94090527	0.329	0.166	1.30E-73	5 GLIS1
5.17E-21	0.939030618	0.386	0.362	1.66E-16	5 RTTN
1.31E-57	0.937986531	0.26	0.136	4.21E-53	5 P4HA2
3.49E-33	0.9344228	0.283	0.197	1.12E-28	5 CALM1
3.19E-34	0.934136213	0.272	0.183	1.02E-29	5 ABAT
1.59E-81	0.931769315	0.292	0.132	5.11E-77	5 SLC22A8
1.38E-66	0.93044446	0.61	0.583	4.44E-62	5 TNS1
2.78E-28	0.921260171	0.337	0.271	8.92E-24	5 CDK10
1.24E-72	0.918255304	0.29	0.137	3.99E-68	5 LINC02147
1.81E-12	0.917356013	0.328	0.324	5.80E-08	5 KDM4B

1.64E-19	0.91544063	0.326	0.283	5.28E-15	5 SNX30
4.38E-32	0.912668205	0.362	0.289	1.41E-27	5 KIAA1549
1.51E-20	0.909938259	0.328	0.285	4.85E-16	5 DIXDC1
3.76E-38	0.908687954	0.541	0.575	1.21E-33	5 TAF1D
2.45E-134	0.908597116	0.665	0.415	7.86E-130	5 NLGN1
2.09E-15	0.898246192	0.317	0.283	6.70E-11	5 ANKDD1A
4.42E-13	0.891719645	0.38	0.383	1.42E-08	5 MFSD14B
4.93E-40	0.890973131	0.262	0.16	1.58E-35	5 RASA4B
1.04E-47	0.885961978	0.379	0.265	3.35E-43	5 CDHR3
2.02E-12	0.884844973	0.357	0.368	6.48E-08	5 ENPP7P6
7.52E-23	0.882568063	0.288	0.228	2.41E-18	5 SAT2
2.24E-07	0.882545356	0.268	0.264	0.007207629	5 ENPP3
1.47E-162	0.880523649	0.862	0.699	4.73E-158	5 DLG2
1.71E-13	0.873998792	0.266	0.232	5.48E-09	5 SNHG25
1.57E-69	0.861420606	0.344	0.184	5.06E-65	5 AL110292.1
2.02E-69	0.856911884	0.366	0.204	6.48E-65	5 RMST
3.85E-109	0.855793139	0.602	0.367	1.24E-104	5 BNC2
1.18E-67	0.853032396	0.656	0.661	3.78E-63	5 INSR
3.93E-35	0.849017221	0.357	0.271	1.26E-30	5 BHMT2
1.73E-33	0.846315449	0.361	0.275	5.55E-29	5 CTTNBP2
1.17E-25	0.835448531	0.265	0.192	3.75E-21	5 HDAC6
1.75E-97	0.83365389	0.706	0.543	5.63E-93	5 ZBTB16
3.43E-22	0.828658068	0.309	0.252	1.10E-17	5 HGD
4.47E-40	0.826257123	0.376	0.274	1.43E-35	5 PDZK1
1.15E-19	0.824543102	0.296	0.243	3.71E-15	5 ABR
9.55E-14	0.822718867	0.514	0.618	3.07E-09	5 GOLGB1
4.52E-21	0.818358938	0.317	0.263	1.45E-16	5 LSP1P5
6.60E-29	0.815219199	0.314	0.234	2.12E-24	5 CNTNAP3
1.38E-28	0.810239266	0.284	0.204	4.42E-24	5 PEPD
1.19E-17	0.808033939	0.391	0.377	3.84E-13	5 WASH7P
1.99E-204	0.804366072	0.977	0.821	6.40E-200	5 PTH2R
3.20E-28	0.804092107	0.59	0.628	1.03E-23	5 KCNQ1OT1
5.59E-20	0.799516397	0.291	0.234	1.79E-15	5 PAPLN
4.19E-32	0.799215454	0.506	0.507	1.34E-27	5 MIA2
1.75E-17	0.792485019	0.336	0.299	5.62E-13	5 TM7SF3
8.76E-18	0.783582807	0.319	0.276	2.81E-13	5 NQO2
3.52E-50	0.77658836	0.295	0.165	1.13E-45	5 GDA
3.88E-07	0.773869157	0.312	0.326	0.012473261	5 KLHL20
2.04E-35	0.770842066	0.265	0.163	6.54E-31	5 AGMO
5.85E-11	0.766912527	0.297	0.279	1.88E-06	5 GANC
1.73E-15	0.756517781	0.405	0.411	5.57E-11	5 MTFR1
1.37E-11	0.7555406	0.389	0.414	4.40E-07	5 DMXL2
4.15E-22	0.751906047	0.504	0.526	1.33E-17	5 HNF1A-AS1
3.31E-08	0.750180084	0.323	0.327	0.00106419	5 MTARC2
2.22E-10	0.74845838	0.338	0.341	7.12E-06	5 OSBPL1A
2.01E-57	0.745921838	0.702	0.78	6.45E-53	5 GOLGA4
0.00016214	0.745358345	0.392	0.485	1	5 ADD1
5.67E-07	0.737764939	0.282	0.281	0.01819875	5 CLUH
1.56E-09	0.735668028	0.314	0.301	5.01E-05	5 RAPGEF3
3.76E-22	0.734014221	0.251	0.181	1.21E-17	5 ABCC6
8.57E-22	0.732121138	0.507	0.547	2.75E-17	5 PAX2

4.95E-07	0.728637741	0.331	0.353	0.015900957	5 ABHD15-AS1
3.35E-11	0.727914281	0.46	0.538	1.07E-06	5 SNRNP70
6.22E-17	0.72664789	0.252	0.197	2.00E-12	5 LINC01788
7.53E-06	0.725685083	0.26	0.261	0.241800645	5 C11orf54
1.68E-16	0.72484638	0.301	0.241	5.39E-12	5 PPP2R2B
5.84E-23	0.721207412	0.342	0.276	1.88E-18	5 TENM1
4.97E-07	0.718367528	0.328	0.347	0.015976506	5 EPHX2
1.09E-30	0.717979778	0.386	0.288	3.50E-26	5 UGT2B7
1.64E-82	0.715884706	0.563	0.366	5.28E-78	5 PTPRD
5.10E-12	0.712894028	0.414	0.449	1.64E-07	5 AC105233.4
3.38E-30	0.711771392	0.258	0.167	1.08E-25	5 SLC25A48
2.12E-16	0.711563749	0.31	0.264	6.79E-12	5 LSP1P4
8.57E-18	0.697356855	0.296	0.242	2.75E-13	5 ACO1
3.46E-78	0.691947984	0.655	0.507	1.11E-73	5 RNF152
0.00252443	0.691179998	0.366	0.445	1	5 AGPAT3
1.97E-06	0.67922201	0.282	0.277	0.063247137	5 SCTR
0.00942951	0.679121206	0.337	0.406	1	5 SUCLG1
5.32E-06	0.676458677	0.27	0.268	0.170922479	5 CRYZL2P-SEC10
8.99E-19	0.671733168	0.261	0.198	2.89E-14	5 GIPC2
2.39E-23	0.669989514	0.312	0.238	7.67E-19	5 ARHGAP42
2.33E-14	0.669661093	0.332	0.29	7.49E-10	5 LINC01515
0.00193249	0.664241423	0.277	0.301	1	5 TUBGCP2
1.65E-10	0.664152323	0.47	0.55	5.28E-06	5 NPIPB12
1.65E-45	0.650333771	0.692	0.784	5.30E-41	5 CUX1
1.93E-50	0.643465138	0.805	0.887	6.19E-46	5 SYNE2
5.15E-15	0.638126903	0.373	0.341	1.66E-10	5 C9
1.69E-09	0.62912891	0.453	0.525	5.44E-05	5 MICU1
0.00377154	0.624112324	0.264	0.284	1	5 SELENOO
0.00058765	0.623281397	0.338	0.376	1	5 SLC43A2
0.00921516	0.605061283	0.385	0.473	1	5 KIF12
0.00100397	0.601604397	0.408	0.504	1	5 ATXN7L1
1.88E-14	0.600571949	0.368	0.33	6.02E-10	5 PRLR
3.69E-14	0.597237305	0.31	0.257	1.19E-09	5 SYT1
7.32E-33	0.596810791	0.475	0.378	2.35E-28	5 CLDN10
0.00717468	0.595028529	0.283	0.313	1	5 AC126283.2
0.00114354	0.59240048	0.291	0.311	1	5 LINC02334
1.40E-99	0.591599958	0.963	0.963	4.49E-95	5 NEAT1
1.26E-30	0.589960648	0.556	0.508	4.04E-26	5 EPB41L3
1.68E-18	0.584131482	0.51	0.52	5.39E-14	5 PCLO
3.93E-22	0.573912557	0.333	0.259	1.26E-17	5 ARHGAP10
6.19E-10	0.571557258	0.398	0.397	1.99E-05	5 PDGFC
0.00733694	0.565654235	0.403	0.497	1	5 CCDC30
8.65E-06	0.565345077	0.437	0.514	0.277655337	5 ZHX3
3.96E-14	0.560116724	0.346	0.303	1.27E-09	5 ALCAM
0.00292464	0.558885817	0.426	0.541	1	5 LARP4
0.00528132	0.557940444	0.372	0.435	1	5 AC093423.3
1.36E-42	0.540479818	0.739	0.767	4.37E-38	5 CDK14
1.52E-09	0.532679741	0.424	0.42	4.88E-05	5 ANK2
3.64E-10	0.530323365	0.565	0.717	1.17E-05	5 SON
0.00023859	0.523520149	0.462	0.565	1	5 AIG1
1.41E-07	0.515681191	0.51	0.638	0.004541411	5 GLG1

8.25E-10	0.506890154	0.411	0.392	2.65E-05	5 SGO1-AS1
2.53E-20	0.504904152	0.462	0.423	8.11E-16	5 PDK4
0.00064178	0.503838546	0.487	0.634	1	5 TSPAN9
4.17E-07	0.499269864	0.216	0.337	0.013388555	5 TUBGCP3
1.29E-18	0.496766229	0.58	0.588	4.13E-14	5 TRABD2B
8.81E-32	0.495893384	0.477	0.384	2.83E-27	5 RERG
0.007807	0.483609301	0.473	0.585	1	5 FOXO3
0.00154192	0.461402805	0.269	0.384	1	5 HIVEP1
9.39E-05	0.458898872	0.448	0.517	1	5 DENND5B
0.00247524	0.458647693	0.294	0.432	1	5 WDR59
0.00032309	0.452741058	0.22	0.316	1	5 MT-ATP6
1.66E-11	0.450775808	0.514	0.573	5.34E-07	5 VMP1
2.35E-05	0.446151642	0.253	0.236	0.755188384	5 RGL1
0.00022724	0.445021564	0.278	0.408	1	5 BOD1L1
0.00590094	0.439026939	0.239	0.33	1	5 PER3
0.00014122	0.432730086	0.292	0.443	1	5 SPG7
1.35E-40	0.428666133	0.742	0.657	4.34E-36	5 MAST4
5.73E-11	0.426676264	0.424	0.411	1.84E-06	5 GRB10
7.93E-16	0.424138564	0.692	0.779	2.55E-11	5 IGF1R
0.00013768	0.42016931	0.214	0.313	1	5 ZER1
0.00096865	0.419686157	0.183	0.257	1	5 AP3D1
1.80E-07	0.418559423	0.439	0.453	0.005787679	5 GALNT14
0.00235486	0.418446901	0.304	0.446	1	5 CWF19L2
7.97E-25	0.417062113	0.719	0.85	2.56E-20	5 IGF2R
6.91E-07	0.415528876	0.219	0.336	0.022185351	5 DDX24
0.00017759	0.414327107	0.33	0.499	1	5 AP2A2
9.85E-08	0.414160818	0.302	0.482	0.003162596	5 SPEN
1.07E-05	0.413956059	0.282	0.432	0.343787181	5 PPP2R2D
3.15E-06	0.411675538	0.293	0.453	0.101062192	5 TRIP11
0.00757457	0.408201458	0.198	0.271	1	5 PBLD
1.50E-11	0.405215099	0.583	0.651	4.81E-07	5 TTC28
1.45E-36	0.400198905	0.819	0.87	4.64E-32	5 PATJ
6.08E-27	0.396390675	0.668	0.735	1.95E-22	5 DIP2C
0.00086929	0.39535726	0.22	0.31	1	5 ZNF75D
1.85E-08	0.394704748	0.285	0.463	0.000593354	5 PRPF4B
0.0004966	0.393872326	0.287	0.415	1	5 RNMT
0.00144382	0.393698134	0.397	0.446	1	5 DEPTOR
3.41E-09	0.386780569	0.222	0.363	0.00010942	5 ZC3H7A
0.00010857	0.382924518	0.305	0.461	1	5 DGLUCY
0.00044641	0.382896512	0.345	0.522	1	5 TPT1-AS1
0.00035731	0.37765638	0.218	0.312	1	5 GALNT2
7.20E-05	0.376934919	0.511	0.598	1	5 PTPRJ
1.22E-09	0.376569301	0.191	0.314	3.91E-05	5 HSPD1
0.00011581	0.374688286	0.299	0.448	1	5 LARP1
0.00137565	0.373933162	0.261	0.257	1	5 TGFB3
1.08E-05	0.371452379	0.607	0.804	0.346634919	5 PNISR
1.66E-07	0.370042488	0.265	0.417	0.005326207	5 WASH3P
2.28E-07	0.368294261	0.225	0.35	0.007327648	5 ARID4A
0.00143801	0.36660557	0.355	0.535	1	5 DNMT
1.22E-07	0.366383687	0.156	0.25	0.00392272	5 AC010210.1
4.58E-51	0.365849578	0.739	0.604	1.47E-46	5 TRPM3

0.00394618	0.365424018	0.183	0.25	1	5 SLC38A10
0.00105951	0.364882697	0.346	0.511	1	5 DYNC2I1
0.0097991	0.362772671	0.214	0.283	1	5 LINC01572
8.46E-08	0.356450051	0.227	0.358	0.002717144	5 NSUN6
0.00065245	0.35582723	0.317	0.464	1	5 LCLAT1
0.0002322	0.355626956	0.285	0.41	1	5 ACAD11
0.00227735	0.353439724	0.555	0.71	1	5 REV3L
1.54E-05	0.353302827	0.226	0.338	0.494899624	5 GPR89B
2.02E-11	0.349302725	0.435	0.395	6.50E-07	5 CNTN4
8.41E-29	0.349038966	0.786	0.805	2.70E-24	5 PLEKHA5
1.08E-05	0.34861835	0.182	0.271	0.346657566	5 CYP4V2
7.08E-10	0.345784	0.294	0.249	2.27E-05	5 AC012593.1
8.01E-05	0.343828843	0.216	0.316	1	5 COQ4
2.90E-09	0.342056176	0.166	0.273	9.32E-05	5 FMR1
7.11E-07	0.340925136	0.169	0.261	0.022838547	5 MT-CYB
5.27E-12	0.338706981	0.246	0.415	1.69E-07	5 UPF2
1.43E-10	0.336389599	0.191	0.321	4.61E-06	5 FAM177A1
1.13E-06	0.33574821	0.273	0.419	0.036168061	5 CCNL2
8.63E-10	0.3339567	0.213	0.349	2.77E-05	5 MLH3
1.51E-11	0.330435241	0.223	0.374	4.84E-07	5 HSDL2
2.10E-05	0.329425819	0.351	0.535	0.674048239	5 CCNL1
2.82E-09	0.329322603	0.282	0.461	9.07E-05	5 SLC25A16
0.00232246	0.327919848	0.237	0.329	1	5 HPCAL1
0.00418913	0.327359705	0.397	0.589	1	5 AC008695.1
7.37E-11	0.326908943	0.249	0.417	2.37E-06	5 GAPVD1
2.00E-06	0.326639563	0.222	0.336	0.064377629	5 SPEF2
6.31E-05	0.325893529	0.195	0.282	1	5 FN3K
4.94E-05	0.32361849	0.173	0.251	1	5 PLIN5
5.37E-06	0.323447318	0.37	0.581	0.172320099	5 TCF25
1.29E-32	0.321953231	0.88	0.918	4.16E-28	5 GPHN
2.41E-13	0.321084337	0.269	0.467	7.73E-09	5 STAG3L3
1.35E-05	0.32083402	0.175	0.258	0.43474828	5 WASH2P
4.33E-05	0.320603351	0.339	0.51	1	5 TBC1D19
2.71E-06	0.319546434	0.225	0.34	0.087183872	5 NFATC3
1.07E-09	0.318669612	0.173	0.283	3.45E-05	5 EIF5B
1.37E-08	0.31745306	0.214	0.342	0.000440376	5 WBP1L
4.43E-08	0.315042955	0.208	0.327	0.001421591	5 ERBB2
9.26E-14	0.313317059	0.249	0.432	2.97E-09	5 NFIC
4.39E-07	0.31006948	0.193	0.297	0.014102196	5 L2HGDH
1.40E-06	0.309355088	0.274	0.416	0.045031855	5 OGDHL
2.91E-09	0.306355116	0.182	0.295	9.35E-05	5 TRMT11
4.42E-09	0.304848846	0.176	0.285	0.000141967	5 ZNF737
1.44E-08	0.303623149	0.158	0.255	0.000463664	5 TRIP4
1.79E-12	0.298529999	0.282	0.485	5.75E-08	5 THRAP3
6.80E-07	0.296154127	0.169	0.26	0.021843925	5 PACS2
3.83E-18	0.295975909	0.158	0.303	1.23E-13	5 RGPD3
1.10E-09	0.29568432	0.231	0.373	3.52E-05	5 TTC21B
9.14E-12	0.295217541	0.278	0.472	2.94E-07	5 SUN1
2.33E-24	0.2924613	0.65	0.571	7.48E-20	5 RALYL
1.72E-07	0.29236475	0.16	0.25	0.005518234	5 FAM193B
5.47E-06	0.289891917	0.171	0.254	0.17564901	5 AC012531.3

2.99E-07	0.289431715	0.203	0.312	0.009611875	5 FMO4
1.90E-05	0.288763892	0.355	0.543	0.610883906	5 IFT88
2.00E-16	0.287861928	0.182	0.334	6.44E-12	5 XIAP
1.65E-10	0.2863444	0.272	0.447	5.31E-06	5 MPHOSPH8
1.37E-07	0.283737947	0.674	0.738	0.004397071	5 AC008014.1
0.00010852	0.283093953	0.326	0.476	1	5 ZFAND5
2.89E-09	0.282705814	0.154	0.253	9.28E-05	5 DNAJC16
0.00514282	0.28036578	0.404	0.585	1	5 CFLAR
6.13E-17	0.277926497	0.257	0.465	1.97E-12	5 BCL2L2-PABPN
1.85E-13	0.276104984	0.256	0.44	5.96E-09	5 DDX46
2.06E-08	0.275862276	0.161	0.256	0.00066288	5 ZNF429
3.40E-06	0.273425162	0.374	0.58	0.109176995	5 PHF3
6.07E-06	0.270804083	0.301	0.454	0.195067909	5 AF127577.4
5.51E-16	0.270219037	0.213	0.383	1.77E-11	5 SUGP2
2.93E-26	0.266368233	0.267	0.17	9.40E-22	5 BX571818.1
1.51E-07	0.266275599	0.283	0.434	0.004857059	5 GSE1
5.16E-13	0.265646204	0.174	0.302	1.66E-08	5 NDUFV1
3.41E-14	0.265468333	0.18	0.321	1.09E-09	5 ACADM
2.40E-10	0.265298382	0.178	0.295	7.70E-06	5 GTF2E2
0.00053467	0.26478598	0.275	0.388	1	5 PLXNB1
2.11E-104	0.264134277	1	1	6.79E-100	5 LINC00486
1.22E-11	0.263223524	0.214	0.356	3.91E-07	5 AL592183.1
3.71E-10	0.260720144	0.202	0.327	1.19E-05	5 MAPK8IP3
0.00082983	0.260621851	0.451	0.678	1	5 HCG17
2.55E-07	0.257764575	0.437	0.42	0.008192781	5 LINC01320
0.00103227	0.257716277	0.26	0.357	1	5 SLC16A10
3.61E-07	0.25543187	0.204	0.309	0.011605561	5 CEMIP2
5.09E-13	0.254729258	0.301	0.512	1.64E-08	5 SMG1P3
7.26E-11	0.252382177	0.206	0.336	2.33E-06	5 MT-ND5
2.23E-06	0.251675871	0.235	0.348	0.071767791	5 KIF21A
1.28E-16	0.251205764	0.151	0.286	4.11E-12	5 IARS1
1.12E-11	0.251151922	0.184	0.31	3.58E-07	5 GPR89A
2.53E-10	0.250965349	0.196	0.32	8.12E-06	5 RRAS2
0	3.108086012	1	0.215	0	6 SLC12A1
0	2.731390521	0.955	0.169	0	6 UMOD
0	2.715351013	0.958	0.173	0	6 RP1
0	2.619042012	0.861	0.129	0	6 AC092078.2
0	2.530848769	0.998	0.324	0	6 PLCB1
0	2.155054323	0.917	0.283	0	6 RBFOX1
0	1.999902836	0.991	0.353	0	6 CACNA2D3
0	1.980285771	0.832	0.097	0	6 NTRK2
0	1.947258346	0.881	0.265	0	6 PHACTR1
0	1.933973093	0.884	0.091	0	6 GP2
0	1.921808513	0.962	0.373	0	6 EGF
0	1.920666644	0.919	0.235	0	6 ESRRB
0	1.881231709	0.846	0.244	0	6 LINC02343
0	1.80306049	0.886	0.441	0	6 GPC5
0	1.790383587	0.845	0.206	0	6 HS6ST2
0	1.770132671	0.776	0.194	0	6 SLC4A7
0	1.75789364	0.862	0.332	0	6 NELL1
0	1.680745027	0.998	0.753	0	6 ERBB4

0	1.678819922	0.913	0.351	0	6 PCDH9
0	1.673899817	0.953	0.493	0	6 RHOBTB3
0	1.620692971	0.92	0.253	0	6 SGIP1
0	1.607721173	0.931	0.495	0	6 AL137782.1
0	1.589486768	0.74	0.106	0	6 ACP3
0	1.588366906	0.932	0.308	0	6 LINC01762
0	1.534695654	0.805	0.087	0	6 SIM2
0	1.512235177	0.929	0.436	0	6 KLHL13
0	1.49202893	0.97	0.459	0	6 PDE1A
0	1.472578181	0.775	0.306	0	6 CREB3L2
0	1.468965711	0.968	0.555	0	6 CLCN5
0	1.465424669	0.623	0.107	0	6 SCHLAP1
0	1.46425206	0.893	0.427	0	6 PPM1L
0	1.447871097	0.804	0.234	0	6 SCD5
0	1.447465273	0.79	0.247	0	6 SEMA6D
0	1.445482103	0.712	0.212	0	6 ENOX1
0	1.442069304	0.945	0.325	0	6 LINC01606
0	1.432033326	0.488	0.092	0	6 KCTD16
0	1.407292336	0.954	0.55	0	6 USP53
0	1.398033526	0.937	0.465	0	6 CCDC148
6.24E-274	1.39432443	0.94	0.605	2.00E-269	6 AC058822.1
1.10E-268	1.382563009	0.892	0.483	3.54E-264	6 DSCAML1
0	1.382394419	0.95	0.459	0	6 FKBP5
1.02E-206	1.376882941	0.289	0.062	3.27E-202	6 TMEM132C
0	1.368720679	0.751	0.179	0	6 NRK
0	1.349821742	0.954	0.398	0	6 SLC16A12
0	1.347816971	0.672	0.19	0	6 TENM4
0	1.326861085	0.687	0.108	0	6 TCIM
3.97E-193	1.324043013	0.919	0.598	1.28E-188	6 MRPS6
0	1.314053792	0.944	0.35	0	6 CLDN10
1.01E-303	1.304584817	0.968	0.532	3.24E-299	6 EFNA5
0	1.304096003	0.819	0.333	0	6 LINC00970
0	1.29412406	0.991	0.773	0	6 PKP4
0	1.289713956	1	0.78	0	6 CCSER1
1.08E-270	1.282396512	0.863	0.416	3.47E-266	6 THSD4
2.69E-145	1.271834352	0.361	0.115	8.64E-141	6 PAPP2
0	1.270610373	0.76	0.231	0	6 RANBP3L
0	1.268659677	0.484	0.088	0	6 RBM20
0	1.266057794	0.755	0.158	0	6 PRKX
0	1.258900847	0.909	0.397	0	6 STK32B
0	1.250805596	0.93	0.26	0	6 CASR
0	1.248788588	0.807	0.223	0	6 AC068631.1
1.57E-271	1.245243807	0.961	0.599	5.03E-267	6 KCNIP4
1.34E-151	1.242397106	0.86	0.546	4.29E-147	6 P3H2
0	1.236551715	0.659	0.114	0	6 SPATC1
1.14E-294	1.234290905	0.544	0.151	3.66E-290	6 AP1S3
3.05E-188	1.23390806	0.791	0.415	9.79E-184	6 BICDL1
0	1.22945792	0.87	0.357	0	6 EFHD1
0	1.226405331	0.836	0.249	0	6 CA10
0	1.215551746	0.788	0.282	0	6 UGT8
0	1.213961049	0.83	0.345	0	6 TMEM72-AS1

5.83E-296	1.211649557	0.945	0.567	1.87E-291	6 CPEB3
0	1.200686163	0.98	0.61	0	6 ATP1A1
3.84E-274	1.196281456	0.979	0.707	1.23E-269	6 CGNL1
0	1.191691283	0.599	0.125	0	6 CALCR
1.32E-210	1.1820792	0.583	0.217	4.24E-206	6 NPSR1-AS1
6.58E-270	1.176164845	0.587	0.184	2.11E-265	6 PPFIA2
2.10E-231	1.173452076	0.481	0.146	6.74E-227	6 PXDNL
3.82E-286	1.162571485	0.942	0.55	1.23E-281	6 TBC1D4
1.98E-257	1.156536941	0.784	0.345	6.36E-253	6 MGAT5
2.42E-291	1.149434968	0.925	0.477	7.76E-287	6 HIP1
1.12E-293	1.136813359	0.994	0.732	3.61E-289	6 ARHGAP6
1.33E-285	1.136025008	0.982	0.7	4.28E-281	6 ATP1B1
0	1.135316953	0.725	0.243	0	6 PANTR1
0	1.117119737	0.675	0.185	0	6 TLE1
0	1.106568224	0.31	0.037	0	6 BMP6
0	1.105064242	0.557	0.127	0	6 FXYD6-FXYD2
5.14E-153	1.093323346	0.466	0.175	1.65E-148	6 FOXP2
7.62E-253	1.071497044	0.736	0.306	2.45E-248	6 ZNF98
0	1.071104943	0.659	0.16	0	6 F11
0	1.061176081	0.666	0.195	0	6 GNAI1
5.68E-287	1.056929501	1	0.875	1.82E-282	6 ESRRG
9.86E-305	1.052557883	0.966	0.509	3.17E-300	6 OSBPL3
3.18E-229	1.046963677	0.894	0.518	1.02E-224	6 AK3
1.26E-182	1.042117853	0.901	0.582	4.05E-178	6 PTPN4
0	1.039727867	0.735	0.252	0	6 NUDT4
1.00E-291	1.034769625	0.646	0.214	3.22E-287	6 COL28A1
1.46E-278	1.026320093	0.849	0.389	4.69E-274	6 ARHGEF38
8.53E-56	1.022801141	0.562	0.365	2.74E-51	6 SAMD4A
1.21E-203	1.021711838	0.889	0.533	3.87E-199	6 CYFIP2
2.12E-220	1.01738959	0.851	0.438	6.79E-216	6 STK39
9.03E-302	1.0086963	0.704	0.229	2.90E-297	6 LINC01182
6.63E-124	1.005249735	0.591	0.288	2.13E-119	6 ALCAM
1.10E-211	0.99796519	0.795	0.372	3.55E-207	6 INPP4B
2.75E-175	0.987221089	0.967	0.728	8.85E-171	6 OXR1
0	0.985160324	0.45	0.044	0	6 GRM1
5.52E-187	0.984390271	0.405	0.122	1.77E-182	6 RIMS2
6.27E-262	0.977524406	0.763	0.299	2.01E-257	6 UPP2
3.40E-153	0.974434322	0.522	0.206	1.09E-148	6 FGF14
2.10E-240	0.971684358	0.35	0.076	6.74E-236	6 SORCS3
4.30E-240	0.971517578	0.829	0.369	1.38E-235	6 MYO3B
1.87E-207	0.968304411	0.889	0.526	5.99E-203	6 HIBADH
1.25E-273	0.966304727	0.893	0.392	4.01E-269	6 LINC01320
4.33E-236	0.962424231	0.964	0.583	1.39E-231	6 AC012409.2
0	0.961653598	0.872	0.342	0	6 CACNB2
8.83E-177	0.958791194	0.798	0.42	2.84E-172	6 DEPTOR
4.08E-177	0.952981758	0.611	0.248	1.31E-172	6 HOMER1
0	0.950684232	0.697	0.193	0	6 SLCO3A1
1.49E-200	0.949521737	0.893	0.484	4.77E-196	6 LRP1B
7.67E-157	0.948573924	0.795	0.403	2.46E-152	6 PDK4
0	0.948548711	0.42	0.054	0	6 LYPD6
0	0.945077193	0.44	0.074	0	6 GABRB1

0	0.943257337	0.548	0.115	0	6 GUCY1A1
3.18E-150	0.939454223	0.936	0.658	1.02E-145	6 NHS
8.50E-133	0.938927232	0.966	0.778	2.73E-128	6 PLCL1
1.46E-186	0.938815048	0.804	0.435	4.69E-182	6 LMO7
5.10E-192	0.931229982	0.724	0.341	1.64E-187	6 MOB3B
0	0.925258509	0.74	0.258	0	6 MTURN
0	0.904157927	0.687	0.215	0	6 ADGRV1
6.14E-212	0.904021921	0.963	0.653	1.97E-207	6 PPARGC1A
1.27E-231	0.90234927	0.597	0.206	4.08E-227	6 PRDM16-DT
5.61E-155	0.901600914	0.436	0.154	1.80E-150	6 RGS6
0	0.900497116	0.478	0.046	0	6 AC087045.3
2.47E-62	0.896599731	0.286	0.123	7.94E-58	6 COL8A1
4.06E-62	0.895840207	0.644	0.404	1.30E-57	6 ACSL4
9.75E-218	0.892165109	0.801	0.407	3.13E-213	6 FBXL4
2.53E-215	0.890220794	0.876	0.488	8.12E-211	6 TMEM161B-AS1
3.48E-268	0.888593225	0.76	0.307	1.12E-263	6 CFAP221
3.66E-269	0.887051643	0.647	0.218	1.17E-264	6 PANK1
7.72E-170	0.884054772	0.604	0.243	2.48E-165	6 ITGB6
0	0.882926397	0.397	0.042	0	6 LINC02432
1.22E-206	0.880145666	0.818	0.37	3.92E-202	6 ZDHHC14
1.38E-145	0.876746687	0.808	0.473	4.42E-141	6 SLC20A2
2.73E-203	0.871523267	0.952	0.597	8.78E-199	6 PRKD1
2.64E-131	0.867257968	0.476	0.191	8.49E-127	6 AC004870.4
1.60E-175	0.864956356	0.606	0.255	5.13E-171	6 MALRD1
4.37E-64	0.864734644	0.381	0.182	1.40E-59	6 MIR222HG
9.18E-151	0.86460014	0.642	0.296	2.95E-146	6 AC087564.1
5.88E-201	0.864535511	0.826	0.396	1.89E-196	6 SLC16A7
1.88E-270	0.864475999	0.525	0.147	6.04E-266	6 LAMA1
1.28E-172	0.860866806	0.847	0.409	4.10E-168	6 CPM
0	0.858112269	0.353	0.05	0	6 KCND3
2.06E-187	0.856275816	0.849	0.438	6.63E-183	6 KCTD1
1.05E-113	0.854295099	0.78	0.471	3.38E-109	6 AC138305.1
0	0.853807543	0.711	0.205	0	6 SUSD4
2.11E-87	0.8507557	0.772	0.527	6.78E-83	6 SVIL
0	0.844838131	0.455	0.041	0	6 CXCL12
5.39E-169	0.844616425	0.683	0.303	1.73E-164	6 CCDC178
6.64E-180	0.842978188	0.954	0.662	2.13E-175	6 ARHGAP24
1.97E-136	0.842363712	0.819	0.525	6.32E-132	6 FAM13A
2.03E-100	0.842231857	0.85	0.608	6.51E-96	6 STPG2
2.18E-155	0.842201117	0.894	0.578	7.01E-151	6 DAB1
2.07E-145	0.840727365	0.784	0.43	6.63E-141	6 RNF150
1.36E-176	0.831566557	0.66	0.296	4.37E-172	6 MYOF
2.17E-304	0.826868862	0.683	0.215	6.97E-300	6 DZIP1
0	0.826570738	0.348	0.052	0	6 AC009478.1
1.65E-126	0.823764168	0.643	0.326	5.29E-122	6 AC138123.1
3.34E-193	0.822534046	0.879	0.482	1.07E-188	6 TRIM2
7.68E-130	0.822089478	0.47	0.192	2.47E-125	6 MAPK4
4.24E-236	0.819952433	0.715	0.286	1.36E-231	6 MST1L
5.73E-142	0.819370362	0.954	0.67	1.84E-137	6 KAZN
1.73E-264	0.814650242	0.619	0.204	5.57E-260	6 TPTEP1
0	0.809018444	0.459	0.1	0	6 ARFGEF3

8.89E-209	0.80706416	0.373	0.096	2.86E-204	6 VLDLR-AS1
1.42E-157	0.802783926	0.586	0.239	4.56E-153	6 MGLL
1.90E-134	0.802333895	0.943	0.647	6.12E-130	6 LGR4
1.71E-216	0.801585916	0.882	0.495	5.51E-212	6 PDE4DIP
0	0.801144337	0.504	0.105	0	6 SYTL4
1.56E-189	0.800468369	0.464	0.147	5.01E-185	6 BDKRB2
0	0.799647975	0.509	0.08	0	6 EHF
9.16E-154	0.797719993	0.497	0.191	2.94E-149	6 AP000317.2
1.20E-80	0.797196001	0.635	0.378	3.85E-76	6 SGO1-AS1
2.88E-156	0.795592095	0.776	0.399	9.25E-152	6 ANK2
1.55E-239	0.793096456	0.765	0.32	4.99E-235	6 MROH7
3.60E-155	0.792730502	0.758	0.404	1.16E-150	6 STXBP4
2.88E-220	0.791179348	0.846	0.421	9.25E-216	6 MPC1
8.04E-235	0.789071787	0.554	0.179	2.58E-230	6 AC016705.2
3.00E-133	0.788428557	0.55	0.233	9.64E-129	6 AC012593.1
2.06E-165	0.788168916	0.851	0.501	6.63E-161	6 TAPT1-AS1
2.09E-191	0.786043696	0.603	0.23	6.72E-187	6 KHDRBS3
4.88E-287	0.785722622	0.542	0.152	1.57E-282	6 SPATA1
2.25E-278	0.779472929	0.415	0.089	7.23E-274	6 CNTN1
3.94E-276	0.773314226	0.59	0.177	1.27E-271	6 FAM184A
5.23E-267	0.771864592	0.51	0.134	1.68E-262	6 AC024022.1
0	0.770545536	0.503	0.121	0	6 MFSD4A
7.30E-181	0.769814163	0.605	0.242	2.34E-176	6 AC022414.1
5.09E-206	0.767085444	0.74	0.332	1.63E-201	6 PDE9A
7.09E-139	0.76627623	0.8	0.481	2.28E-134	6 ETNK1
2.83E-172	0.765183459	0.678	0.315	9.08E-168	6 NMD3
1.89E-205	0.762402984	0.857	0.457	6.09E-201	6 AC241952.1
2.32E-250	0.761330645	0.727	0.269	7.44E-246	6 CCND3
5.86E-158	0.76055056	0.67	0.331	1.88E-153	6 AHCYL1
2.30E-127	0.749746421	0.862	0.559	7.40E-123	6 FOXO3
1.25E-173	0.744643384	0.333	0.087	4.01E-169	6 GPC3
5.25E-176	0.740141097	0.581	0.239	1.69E-171	6 LPIN1
2.52E-174	0.737986699	0.669	0.311	8.11E-170	6 NCBP1
2.52E-190	0.736935383	0.454	0.138	8.09E-186	6 NOS1
1.71E-196	0.736369657	0.816	0.413	5.50E-192	6 ACOT11
2.82E-273	0.736238326	0.601	0.183	9.07E-269	6 CKB
7.44E-121	0.734249735	0.8	0.493	2.39E-116	6 PPP1CB
1.47E-122	0.73377356	0.868	0.541	4.73E-118	6 ARID5B
4.44E-186	0.733666017	0.564	0.207	1.43E-181	6 AL139383.1
2.40E-93	0.733333824	0.808	0.533	7.70E-89	6 BCL2
0	0.73224193	0.562	0.137	0	6 TFAP2B
2.10E-257	0.73211497	0.561	0.169	6.76E-253	6 ABHD17C
3.54E-167	0.728445431	0.727	0.327	1.14E-162	6 CADM1
8.18E-221	0.725532476	0.281	0.053	2.63E-216	6 LURAP1L-AS1
1.35E-137	0.723773179	0.808	0.451	4.34E-133	6 LINC01725
5.07E-154	0.723596928	0.742	0.374	1.63E-149	6 SLC3A1
3.06E-70	0.723565856	0.665	0.399	9.84E-66	6 MIR4435-2HG
1.30E-176	0.721070447	0.994	0.879	4.19E-172	6 IMP2L
7.79E-50	0.719931898	0.383	0.206	2.50E-45	6 CYTOR
4.17E-195	0.718087707	0.575	0.207	1.34E-190	6 OXCT1
5.31E-265	0.717395639	0.557	0.161	1.71E-260	6 AGPAT4

9.56E-140	0.715533314	0.689	0.341	3.07E-135	6 SGPP2
5.68E-91	0.701824364	0.676	0.379	1.82E-86	6 FGF13
4.91E-216	0.701605022	0.533	0.176	1.58E-211	6 PRDX6-AS1
4.81E-115	0.698376811	0.687	0.38	1.54E-110	6 INTS6
1.54E-142	0.697854541	0.43	0.153	4.94E-138	6 DENND2A
7.39E-170	0.694370064	0.748	0.359	2.37E-165	6 KATNAL2
3.57E-140	0.683624426	0.982	0.775	1.15E-135	6 NAALADL2
2.94E-172	0.682947179	0.818	0.436	9.45E-168	6 AC245297.3
9.81E-168	0.682598803	0.578	0.221	3.15E-163	6 KCNMB2
4.36E-160	0.681484852	0.688	0.323	1.40E-155	6 PIK3R1
1.26E-196	0.679160956	0.636	0.234	4.04E-192	6 CHL1
1.33E-165	0.677363542	0.529	0.204	4.26E-161	6 PPM1K
1.62E-205	0.675916796	0.663	0.267	5.22E-201	6 GSAP
1.05E-97	0.675661907	0.271	0.09	3.36E-93	6 OPCML
5.65E-135	0.674726483	0.769	0.416	1.81E-130	6 GCNT2
0	0.672519721	0.446	0.081	0	6 CLDN16
4.35E-174	0.671662311	0.608	0.235	1.40E-169	6 LIPA
1.35E-156	0.671384137	0.766	0.398	4.34E-152	6 CEP70
4.26E-144	0.668973777	0.777	0.422	1.37E-139	6 UBE2E3
6.07E-202	0.668551035	0.702	0.298	1.95E-197	6 DNASE1
9.94E-186	0.668158641	0.536	0.19	3.19E-181	6 PRKCQ
2.72E-61	0.667727633	0.639	0.422	8.74E-57	6 VCL
3.67E-154	0.663833005	0.985	0.773	1.18E-149	6 FGD4
3.31E-127	0.661715123	0.301	0.09	1.06E-122	6 LONRF3
9.51E-270	0.660318759	0.631	0.19	3.05E-265	6 WNK4
4.30E-138	0.660218634	0.826	0.451	1.38E-133	6 SSBP2
6.07E-262	0.659733573	0.583	0.169	1.95E-257	6 PHF21B
3.35E-120	0.657805956	0.895	0.605	1.08E-115	6 ACACB
8.20E-153	0.657233701	0.656	0.303	2.63E-148	6 AMMECR1
5.68E-152	0.656231302	0.867	0.508	1.82E-147	6 LIFR
1.65E-114	0.654193444	0.333	0.115	5.28E-110	6 RGS7
1.55E-68	0.652185435	0.384	0.183	4.96E-64	6 MIR646HG
2.82E-123	0.649091696	0.501	0.216	9.06E-119	6 LNC-LBCS
6.30E-105	0.648914681	0.849	0.533	2.02E-100	6 PRICKLE2
5.75E-75	0.646282261	0.384	0.178	1.85E-70	6 TAF41
1.79E-123	0.646250076	0.835	0.49	5.74E-119	6 WDFY2
5.74E-192	0.646232102	0.268	0.054	1.84E-187	6 LINC01197
1.52E-168	0.645579401	0.691	0.308	4.88E-164	6 NR2F2-AS1
1.90E-186	0.643103189	0.571	0.218	6.11E-182	6 ACSS1
1.94E-147	0.638388964	0.929	0.601	6.22E-143	6 SULT1C2
9.76E-165	0.635802235	0.623	0.267	3.14E-160	6 TRMT9B
1.88E-167	0.634441281	0.716	0.343	6.04E-163	6 GOT1
7.39E-147	0.63310086	0.526	0.215	2.37E-142	6 EGLN3
1.54E-234	0.632770835	0.46	0.122	4.96E-230	6 GPR132
2.41E-176	0.630222496	0.655	0.257	7.73E-172	6 NRCAM
3.27E-150	0.629933801	0.979	0.771	1.05E-145	6 MYO9A
5.00E-221	0.629844067	0.615	0.208	1.61E-216	6 KCNJ1
6.98E-100	0.629574918	0.6	0.302	2.24E-95	6 GNGT1
1.14E-88	0.628423498	0.788	0.497	3.67E-84	6 NAV2
8.17E-181	0.625232291	0.566	0.211	2.62E-176	6 FGF9
4.71E-140	0.624811165	0.668	0.316	1.51E-135	6 CECR2

7.80E-205	0.62458772	0.583	0.207	2.51E-200	6 ARRDC3
5.70E-209	0.624091228	0.621	0.233	1.83E-204	6 AC244669.2
1.34E-144	0.618481063	0.857	0.489	4.32E-140	6 RALGPS1
5.25E-109	0.618054293	0.378	0.145	1.69E-104	6 STEAP2-AS1
8.39E-149	0.617688544	0.864	0.489	2.70E-144	6 FXYD2
6.80E-177	0.617596954	0.575	0.217	2.18E-172	6 SLC2A13
2.04E-147	0.61692849	0.897	0.488	6.54E-143	6 SKAP1
6.08E-183	0.613381566	0.346	0.091	1.95E-178	6 FAM110C
1.24E-158	0.613175	0.517	0.191	3.99E-154	6 MAOA
6.91E-155	0.611815505	0.522	0.2	2.22E-150	6 FAM83B
6.61E-139	0.608378287	0.869	0.538	2.12E-134	6 AC138409.2
7.05E-128	0.607410785	0.27	0.074	2.26E-123	6 KCNMA1
1.19E-146	0.605065214	0.437	0.152	3.82E-142	6 U91319.1
1.51E-143	0.603126042	0.75	0.38	4.84E-139	6 ACSS3
3.74E-107	0.602428419	0.36	0.134	1.20E-102	6 DNAJC6
5.28E-113	0.599205438	0.798	0.465	1.69E-108	6 GALNT18
2.64E-141	0.598954996	0.395	0.132	8.49E-137	6 AC097515.1
1.19E-73	0.598676055	0.44	0.215	3.83E-69	6 MTHFD2L
0	0.597442858	0.288	0.017	0	6 CABP1
6.79E-180	0.597343966	0.454	0.146	2.18E-175	6 KCNK1
1.03E-111	0.597186508	0.986	0.876	3.31E-107	6 WWOX
4.80E-181	0.595426579	0.603	0.234	1.54E-176	6 AC018730.1
3.00E-143	0.594944417	0.523	0.213	9.62E-139	6 MAMDC2-AS1
2.64E-114	0.594933508	0.446	0.183	8.48E-110	6 PRANCR
5.18E-205	0.59477346	0.526	0.178	1.66E-200	6 RAP2C
1.85E-202	0.593928748	0.447	0.129	5.95E-198	6 GMPR
8.92E-118	0.592934994	0.675	0.359	2.86E-113	6 ARHGAP26
1.66E-140	0.592648144	0.533	0.224	5.32E-136	6 OCLN
2.15E-107	0.591110807	0.738	0.423	6.91E-103	6 RASSF8
3.64E-119	0.590270499	0.745	0.417	1.17E-114	6 CMTM4
2.81E-121	0.589675086	0.941	0.682	9.03E-117	6 GUSBP1
6.97E-104	0.587689183	0.63	0.332	2.24E-99	6 DSE
7.38E-139	0.587008906	0.764	0.418	2.37E-134	6 GUSBP16
3.24E-163	0.582927163	0.78	0.374	1.04E-158	6 DNMT3
9.05E-127	0.582497078	0.566	0.242	2.91E-122	6 SYT1
3.02E-97	0.581946616	0.25	0.078	9.69E-93	6 AC005699.1
9.30E-147	0.581692766	0.362	0.109	2.99E-142	6 SFRP1
3.63E-106	0.581286484	0.323	0.113	1.17E-101	6 ACTN1
3.97E-77	0.580791464	0.665	0.397	1.27E-72	6 ASTN2
3.11E-187	0.579884359	0.274	0.057	9.98E-183	6 TG
2.19E-123	0.578505663	0.579	0.272	7.04E-119	6 SLC25A33
1.14E-144	0.578059581	0.99	0.83	3.65E-140	6 LRBA
1.77E-112	0.57637319	0.976	0.761	5.69E-108	6 FARP1
1.14E-108	0.575418677	0.704	0.388	3.67E-104	6 MAGED1
8.82E-126	0.572625862	0.502	0.206	2.83E-121	6 SLC22A2
3.74E-129	0.572583937	0.596	0.273	1.20E-124	6 LINC00476
8.08E-224	0.571410031	0.457	0.128	2.60E-219	6 RRAGD
1.04E-110	0.570705456	0.393	0.149	3.34E-106	6 PAPSS2
1.35E-99	0.569149445	0.818	0.509	4.33E-95	6 GRAMD2B
0	0.568785558	0.332	0.046	0	6 AP000695.2
3.58E-142	0.567678615	0.762	0.412	1.15E-137	6 CDH12

2.58E-146	0.566173491	0.825	0.42	8.30E-142	6 PRDM16
4.92E-127	0.563614753	0.504	0.212	1.58E-122	6 RAP1GAP
4.23E-63	0.562120249	0.46	0.247	1.36E-58	6 RUNX1
9.52E-189	0.560841699	0.458	0.143	3.06E-184	6 CCDC148-AS1
0	0.559081362	0.311	0.035	0	6 SLC4A8
4.29E-113	0.559046041	0.725	0.399	1.38E-108	6 MPDZ
1.53E-81	0.558995965	0.662	0.388	4.93E-77	6 ELL2
9.55E-111	0.5572733	0.772	0.446	3.07E-106	6 ZFAND5
9.43E-122	0.555859132	0.538	0.235	3.03E-117	6 MYLK
1.38E-143	0.555680769	0.742	0.378	4.42E-139	6 GNAS
1.18E-173	0.55548453	0.559	0.215	3.78E-169	6 OVOL2
4.43E-128	0.554896988	0.883	0.553	1.42E-123	6 CFLAR
1.03E-93	0.554439524	0.705	0.406	3.31E-89	6 TMEM232
5.86E-99	0.553668794	0.798	0.498	1.88E-94	6 BCKDHB
1.29E-103	0.551664167	0.556	0.273	4.14E-99	6 TMEM164
2.20E-123	0.550540775	0.995	0.888	7.07E-119	6 RORA
4.05E-163	0.550323596	0.264	0.061	1.30E-158	6 CDH18
5.48E-173	0.550316202	0.571	0.217	1.76E-168	6 AL137009.1
4.55E-106	0.550232034	0.577	0.286	1.46E-101	6 MAILR
5.73E-97	0.54952189	0.412	0.174	1.84E-92	6 KCNS3
2.01E-132	0.54842134	0.598	0.274	6.45E-128	6 LDHB
1.89E-106	0.546955117	0.787	0.455	6.08E-102	6 COBL
5.68E-93	0.543974331	0.531	0.263	1.83E-88	6 PFKP
2.55E-117	0.543467079	0.702	0.353	8.19E-113	6 ARNT2
7.30E-157	0.542751623	0.621	0.268	2.34E-152	6 MSANTD2
2.79E-84	0.542591444	0.704	0.415	8.96E-80	6 CPEB2
7.38E-101	0.541877397	0.4	0.159	2.37E-96	6 SHISA9
1.12E-117	0.541708047	0.79	0.454	3.58E-113	6 CLINT1
4.84E-88	0.541230038	0.806	0.513	1.55E-83	6 PTPN14
1.12E-211	0.540644475	0.478	0.144	3.61E-207	6 SLC6A16
9.65E-155	0.539624032	0.796	0.384	3.10E-150	6 CLCNKA
8.33E-124	0.538717562	0.938	0.643	2.67E-119	6 APP
0	0.53609339	0.273	0.02	0	6 C14orf132
3.60E-154	0.536023172	0.567	0.234	1.16E-149	6 AC083843.2
9.19E-210	0.533148244	0.409	0.106	2.95E-205	6 SLC22A3
6.77E-90	0.533114792	0.897	0.574	2.17E-85	6 PDE7B
1.76E-112	0.531127237	0.612	0.302	5.66E-108	6 RPS6KA6
1.37E-113	0.530443925	0.682	0.36	4.40E-109	6 AKAP6
5.22E-128	0.528651119	0.494	0.202	1.68E-123	6 TPST2
6.35E-172	0.527782678	0.422	0.133	2.04E-167	6 LINC02340
3.42E-130	0.527700665	0.711	0.346	1.10E-125	6 GRHL2
2.72E-141	0.527319935	0.264	0.067	8.74E-137	6 LAMB4
3.65E-106	0.524345005	0.649	0.347	1.17E-101	6 NOTCH2
1.63E-64	0.523585169	0.593	0.352	5.23E-60	6 IFRD1
6.42E-195	0.523549727	0.556	0.183	2.06E-190	6 KNG1
1.04E-151	0.523548728	0.464	0.167	3.35E-147	6 C21orf62-AS1
1.78E-138	0.520827232	0.647	0.304	5.71E-134	6 CTIF
8.78E-157	0.518398637	0.311	0.081	2.82E-152	6 DOK5
0	0.517846379	0.277	0.027	0	6 MRAP2
5.61E-105	0.516917027	0.358	0.136	1.80E-100	6 ADCY5
4.32E-88	0.515532863	0.692	0.407	1.39E-83	6 ERICH1

1.16E-121	0.515286845	0.615	0.279	3.74E-117	6 ZNF385B
2.95E-163	0.514545764	0.362	0.103	9.46E-159	6 AL355499.1
4.25E-157	0.513807012	0.371	0.109	1.37E-152	6 LYPD6B
2.27E-112	0.512417496	0.667	0.347	7.30E-108	6 ANXA11
1.83E-271	0.50959182	0.285	0.044	5.87E-267	6 PKNOX2
2.31E-73	0.509088095	0.63	0.371	7.41E-69	6 RAP2C-AS1
2.16E-103	0.507808749	0.92	0.622	6.94E-99	6 USP25
1.09E-98	0.507156128	0.837	0.53	3.48E-94	6 AC093752.1
1.68E-224	0.505803556	0.612	0.201	5.41E-220	6 MEF2C
3.19E-136	0.504828184	0.6	0.274	1.02E-131	6 ADHFE1
1.63E-83	0.502635855	0.554	0.29	5.24E-79	6 AC021231.1
6.23E-64	0.502131647	0.546	0.31	2.00E-59	6 AC104123.1
4.66E-75	0.501132049	0.696	0.421	1.50E-70	6 SUCLG2-AS1
3.25E-106	0.501025855	0.635	0.327	1.04E-101	6 AC053527.2
4.29E-78	0.500590466	0.845	0.579	1.38E-73	6 LYPLAL1
2.78E-95	0.500211215	0.873	0.581	8.92E-91	6 WWC2
6.96E-65	0.500193708	0.495	0.262	2.24E-60	6 NRG1
2.69E-72	0.499814388	0.717	0.457	8.63E-68	6 ZMYND8
1.89E-66	0.499625548	0.514	0.282	6.05E-62	6 PBX3
3.91E-91	0.495675262	0.895	0.596	1.26E-86	6 KLF12
9.37E-95	0.494473185	0.647	0.355	3.01E-90	6 CMC1
2.74E-74	0.494047254	0.899	0.619	8.80E-70	6 THRB
2.18E-65	0.493943364	0.913	0.648	7.00E-61	6 MAST4
1.63E-62	0.493153017	0.607	0.355	5.25E-58	6 DGKH
3.39E-94	0.492984096	0.73	0.415	1.09E-89	6 COL4A2
3.40E-130	0.492342132	0.634	0.301	1.09E-125	6 Z98752.3
5.08E-105	0.491970043	0.98	0.702	1.63E-100	6 ADAMTS9-AS2
0	0.491896583	0.292	0.017	0	6 IRX2
5.86E-127	0.49135614	0.312	0.097	1.88E-122	6 AC124947.1
3.99E-94	0.489466244	0.617	0.318	1.28E-89	6 AC040174.1
3.46E-118	0.489121774	0.452	0.178	1.11E-113	6 NR2F1-AS1
1.19E-178	0.487001411	0.397	0.113	3.81E-174	6 USP13
1.24E-160	0.486999366	0.433	0.144	3.97E-156	6 KCNAB1
1.65E-134	0.486862617	0.796	0.411	5.30E-130	6 SCNN1A
1.92E-88	0.484835243	0.742	0.454	6.16E-84	6 CASK
1.66E-100	0.484719049	0.76	0.433	5.33E-96	6 NNT
1.09E-113	0.483345969	0.853	0.489	3.51E-109	6 TANC2
1.27E-84	0.482796455	0.379	0.163	4.08E-80	6 AC138627.1
4.31E-93	0.48217177	0.951	0.669	1.39E-88	6 ABLIM1
3.92E-119	0.482123645	0.624	0.288	1.26E-114	6 NR3C1
9.91E-85	0.481343724	0.896	0.622	3.18E-80	6 MBNL2
8.03E-115	0.480878616	0.594	0.278	2.58E-110	6 SH3BP4
9.34E-153	0.480732	0.413	0.138	3.00E-148	6 AL137058.2
6.04E-145	0.480410733	0.496	0.191	1.94E-140	6 MST1P2
8.97E-163	0.479361186	0.507	0.18	2.88E-158	6 SLC15A2
1.34E-119	0.478793795	0.666	0.344	4.29E-115	6 GUSBP17
5.84E-93	0.478392683	0.701	0.398	1.88E-88	6 WARS2-AS1
1.26E-165	0.476709634	0.394	0.116	4.05E-161	6 IFIT5
2.21E-116	0.476642777	0.6	0.278	7.11E-112	6 SNX10
9.24E-118	0.474891836	0.683	0.352	2.97E-113	6 CFAP70
2.26E-253	0.474877341	0.368	0.076	7.25E-249	6 AC007325.2

2.30E-250	0.473038934	0.296	0.052	7.38E-246	6 TMEM171
8.10E-104	0.472940391	0.362	0.136	2.60E-99	6 KCNH1
4.21E-108	0.471537212	0.709	0.394	1.35E-103	6 NBPf26
6.41E-90	0.470477999	0.708	0.417	2.06E-85	6 ATP2C1
1.96E-99	0.470245231	0.802	0.466	6.30E-95	6 GNG12-AS1
7.40E-60	0.470226939	0.583	0.343	2.38E-55	6 RNLS
1.69E-86	0.469144371	0.515	0.259	5.44E-82	6 EPM2A
2.41E-105	0.468579691	0.835	0.514	7.74E-101	6 TRA2A
1.72E-75	0.468190233	0.854	0.585	5.53E-71	6 CTBP2
1.88E-105	0.467730822	0.438	0.183	6.02E-101	6 CIT
3.11E-145	0.466609593	0.526	0.211	9.98E-141	6 BDH1
3.65E-87	0.465796532	0.789	0.499	1.17E-82	6 MIR29B2CHG
5.24E-124	0.465411478	0.621	0.304	1.68E-119	6 GUSBP13
2.06E-103	0.464619243	0.897	0.533	6.60E-99	6 ZBTB16
6.39E-61	0.464356269	0.353	0.163	2.05E-56	6 TIPARP
9.38E-54	0.463398366	0.629	0.402	3.01E-49	6 AL355499.2
1.24E-117	0.463034347	0.633	0.31	3.99E-113	6 PITPNM2
9.67E-104	0.462860709	0.288	0.092	3.11E-99	6 PPM1E
1.38E-78	0.462290008	0.931	0.668	4.42E-74	6 TFCP2L1
2.46E-126	0.462210599	0.371	0.129	7.91E-122	6 SMCO4
2.88E-110	0.462102703	0.472	0.2	9.25E-106	6 C12orf40
1.23E-110	0.462034223	0.435	0.178	3.96E-106	6 MEF2C-AS1
4.40E-145	0.462024984	0.413	0.135	1.41E-140	6 GAD1
2.51E-96	0.461837454	0.739	0.43	8.06E-92	6 PREPL
1.08E-78	0.461115229	0.558	0.302	3.46E-74	6 FSIP2
2.61E-204	0.460879081	0.291	0.059	8.38E-200	6 PBX4
5.31E-98	0.459177444	0.784	0.463	1.70E-93	6 SLC25A12
7.14E-98	0.458621967	0.756	0.447	2.29E-93	6 GPATCH2L
6.16E-67	0.456214866	0.52	0.281	1.98E-62	6 CYP7B1
3.87E-70	0.456053295	0.423	0.207	1.24E-65	6 SOX2-OT
1.72E-126	0.45532892	0.437	0.165	5.53E-122	6 RPL34-DT
1.62E-79	0.455245105	0.78	0.476	5.20E-75	6 MFHAS1
3.20E-135	0.455008134	0.47	0.181	1.03E-130	6 WLS
7.03E-74	0.452921649	0.621	0.351	2.26E-69	6 MDM2
4.41E-75	0.451325361	0.849	0.559	1.42E-70	6 FAM160A1
6.59E-82	0.450370857	0.764	0.471	2.12E-77	6 MTX2
3.59E-75	0.450146984	0.615	0.366	1.15E-70	6 SEC14L1
8.15E-98	0.45010264	0.649	0.35	2.62E-93	6 RIC8B
1.22E-173	0.450073767	0.533	0.186	3.92E-169	6 USP2
3.36E-123	0.449467928	0.561	0.256	1.08E-118	6 XPA
7.30E-139	0.449138842	0.915	0.562	2.34E-134	6 AL359736.1
5.18E-106	0.448021271	0.885	0.517	1.66E-101	6 MYO10
1.04E-117	0.446728657	0.669	0.342	3.35E-113	6 NAIP
6.23E-97	0.446669428	0.752	0.45	2.00E-92	6 GUSBP2
1.36E-79	0.446401745	0.581	0.308	4.37E-75	6 FGFR2
1.77E-136	0.44579672	0.323	0.096	5.69E-132	6 USP2-AS1
1.29E-135	0.445759856	0.413	0.149	4.15E-131	6 SSR3
2.23E-100	0.445723877	0.429	0.177	7.15E-96	6 PLXNA2
2.21E-87	0.44543889	0.506	0.251	7.09E-83	6 IMPA2
9.65E-102	0.444272497	0.649	0.346	3.10E-97	6 DECR1
2.10E-129	0.444265082	0.545	0.24	6.74E-125	6 CROCCP2

3.68E-102	0.443705978	0.561	0.274	1.18E-97	6 COX10
5.30E-108	0.442854681	0.679	0.349	1.70E-103	6 CAPN2
4.83E-70	0.442691903	0.308	0.129	1.55E-65	6 NDST3
9.01E-139	0.441666173	0.414	0.147	2.89E-134	6 LINC00958
1.14E-193	0.44109047	0.367	0.096	3.67E-189	6 DNAJC19
7.24E-111	0.440904171	0.659	0.334	2.32E-106	6 GABPB1-AS1
3.50E-80	0.440223189	0.333	0.134	1.13E-75	6 BRINP3
2.40E-114	0.439938545	0.698	0.359	7.70E-110	6 MAMDC2
2.12E-64	0.437757502	0.679	0.42	6.81E-60	6 C1QTNF3-AMAC
9.00E-37	0.437559326	0.409	0.249	2.89E-32	6 XIST
6.60E-111	0.436052145	0.613	0.296	2.12E-106	6 MICU3
6.41E-126	0.435853343	0.417	0.149	2.06E-121	6 IRS1
9.99E-274	0.435578121	0.353	0.065	3.21E-269	6 PP7080
2.65E-56	0.435100969	0.55	0.327	8.52E-52	6 ZRANB2-AS2
7.56E-79	0.434910581	0.701	0.423	2.43E-74	6 RAP1A
5.54E-104	0.43434572	0.519	0.246	1.78E-99	6 NBN
7.18E-156	0.432803217	0.357	0.104	2.31E-151	6 LINC01948
1.53E-76	0.432378162	0.825	0.559	4.90E-72	6 LUC7L2
8.91E-157	0.431996274	0.411	0.135	2.86E-152	6 SIAE
2.66E-101	0.431818274	0.718	0.368	8.53E-97	6 SIM1
4.40E-50	0.431459581	0.383	0.207	1.41E-45	6 INPP5F
2.03E-90	0.431159791	0.762	0.451	6.54E-86	6 PIAS2
8.53E-128	0.431101874	0.431	0.164	2.74E-123	6 SMC5-AS1
1.47E-96	0.43069268	0.292	0.099	4.72E-92	6 GRIK2
5.70E-120	0.430361276	0.368	0.128	1.83E-115	6 MTCL1
8.24E-62	0.430333022	0.893	0.659	2.65E-57	6 PTGER3
2.21E-96	0.429294892	0.509	0.24	7.09E-92	6 SGCE
8.79E-83	0.428296526	0.475	0.235	2.82E-78	6 MERTK
1.07E-170	0.427717329	0.284	0.065	3.44E-166	6 JAM2
1.17E-105	0.426266554	0.501	0.222	3.75E-101	6 B3GLCT
1.34E-95	0.425625627	0.78	0.45	4.32E-91	6 FLNB
5.36E-243	0.424836123	0.268	0.044	1.72E-238	6 CSRP2
7.05E-104	0.424311219	0.446	0.19	2.26E-99	6 GOLM1
8.49E-91	0.423432036	0.748	0.441	2.73E-86	6 C2CD5
3.72E-137	0.423422581	0.358	0.115	1.20E-132	6 MFAP3L
2.21E-88	0.423059961	0.486	0.233	7.09E-84	6 ATP6AP1L
2.86E-113	0.422294414	0.424	0.171	9.18E-109	6 ITGB1BP1
3.55E-90	0.421503195	0.748	0.444	1.14E-85	6 NBPF19
9.02E-108	0.42118065	0.544	0.255	2.90E-103	6 GSTO2
3.50E-90	0.419498076	0.555	0.29	1.12E-85	6 THUMPD3-AS1
3.81E-75	0.419403174	0.761	0.475	1.22E-70	6 FAM135A
1.42E-87	0.418836568	0.77	0.47	4.55E-83	6 FXR1
1.31E-31	0.41759577	0.471	0.303	4.22E-27	6 P4HA1
2.68E-48	0.416688909	0.84	0.62	8.62E-44	6 CAMKMT
6.54E-71	0.416670444	0.933	0.692	2.10E-66	6 VWAA8
2.88E-53	0.416423472	0.562	0.343	9.25E-49	6 AASS
6.11E-98	0.416274754	0.487	0.227	1.96E-93	6 TTC7A
6.91E-47	0.416146861	0.39	0.211	2.22E-42	6 NLGN4Y
9.78E-78	0.414015842	0.42	0.195	3.14E-73	6 LEKR1
3.80E-46	0.412924528	0.615	0.396	1.22E-41	6 DPH6-DT
9.65E-87	0.412709772	0.445	0.204	3.10E-82	6 SMS

1.15E-188	0.410946026	0.254	0.049	3.68E-184	6 LPL
1.06E-166	0.409735397	0.308	0.076	3.40E-162	6 AC016526.1
3.19E-125	0.409272327	0.497	0.199	1.02E-120	6 HOXA3
4.90E-112	0.408715999	0.421	0.174	1.57E-107	6 TBRG1
3.53E-95	0.405822493	0.498	0.237	1.13E-90	6 MIOS
5.35E-78	0.405412532	0.596	0.329	1.72E-73	6 ACCL3
5.60E-90	0.404907236	0.724	0.43	1.80E-85	6 AC132008.2
1.26E-90	0.404617076	0.542	0.273	4.05E-86	6 MYEF2
1.54E-67	0.4045016	0.49	0.259	4.93E-63	6 AC092535.4
5.50E-30	0.403400668	0.694	0.515	1.77E-25	6 ST7
2.37E-142	0.402942504	0.32	0.093	7.61E-138	6 FECH
7.15E-69	0.402373021	0.89	0.62	2.30E-64	6 CLMN
3.81E-65	0.402036176	0.784	0.518	1.22E-60	6 KIF16B
3.90E-100	0.40120358	0.539	0.263	1.25E-95	6 GUSBP3
1.60E-75	0.401161064	0.721	0.435	5.13E-71	6 NFYC
7.08E-97	0.40020357	0.526	0.256	2.28E-92	6 DTWD1
1.11E-106	0.399893613	0.415	0.167	3.58E-102	6 ESRP1
7.70E-85	0.398907266	0.726	0.398	2.47E-80	6 FAM171A1
5.16E-125	0.398227927	0.543	0.23	1.66E-120	6 AC012531.3
7.08E-119	0.397997621	0.252	0.068	2.27E-114	6 DCLK1
2.72E-46	0.397884939	0.794	0.568	8.73E-42	6 SUPT3H
1.08E-69	0.395623956	0.758	0.486	3.48E-65	6 PSME4
6.61E-93	0.395516843	0.379	0.151	2.12E-88	6 IL15
5.99E-72	0.394315563	0.758	0.468	1.92E-67	6 USP45
6.10E-110	0.394033904	0.51	0.224	1.96E-105	6 IDH2
2.30E-66	0.393768529	0.7	0.433	7.38E-62	6 ATG10
4.02E-49	0.393341612	0.421	0.23	1.29E-44	6 LINC01036
1.11E-68	0.393078328	0.644	0.384	3.57E-64	6 LNPEP
2.35E-132	0.392305849	0.822	0.45	7.54E-128	6 ARHGAP18
3.13E-67	0.391315911	0.833	0.539	1.00E-62	6 STARD13
2.46E-83	0.390380993	0.577	0.306	7.91E-79	6 TMEM161B
3.18E-78	0.3903318	0.574	0.314	1.02E-73	6 HSD17B4
1.43E-111	0.389251809	0.753	0.402	4.58E-107	6 TBC1D8
1.58E-70	0.38880805	0.297	0.123	5.08E-66	6 ATRNL1
2.24E-42	0.388395861	0.824	0.622	7.20E-38	6 LRCH1
2.09E-97	0.38763426	0.349	0.131	6.72E-93	6 SLC16A5
1.23E-63	0.386882053	0.562	0.327	3.96E-59	6 RYBP
1.78E-54	0.386450924	0.885	0.654	5.72E-50	6 RASA1
3.65E-80	0.386084496	0.598	0.335	1.17E-75	6 ATP5F1C
2.06E-109	0.386075483	0.534	0.244	6.62E-105	6 AC073283.3
1.70E-78	0.385066017	0.736	0.445	5.45E-74	6 CCDC50
5.99E-65	0.385033802	0.81	0.529	1.92E-60	6 GBE1
1.82E-71	0.385028572	0.531	0.288	5.85E-67	6 PLA2G12A
9.33E-72	0.383313647	0.351	0.155	3.00E-67	6 PCDHA1
5.45E-78	0.383282517	0.456	0.217	1.75E-73	6 RNF24
7.43E-92	0.383163372	0.748	0.438	2.39E-87	6 SRSF10
8.58E-90	0.383158282	0.542	0.266	2.75E-85	6 SORL1
5.59E-58	0.382598492	0.648	0.412	1.79E-53	6 ATP2B1
8.68E-71	0.381695766	0.782	0.491	2.79E-66	6 ZHX3
3.75E-61	0.381641782	0.943	0.719	1.20E-56	6 DOCK1
3.66E-179	0.381528569	0.272	0.057	1.18E-174	6 LINC02437

9.88E-67	0.381276872	0.393	0.188	3.17E-62	6 LINC00882
7.24E-81	0.381264683	0.884	0.564	2.33E-76	6 VAV3
2.59E-58	0.38083889	0.327	0.149	8.33E-54	6 HDAC9
8.33E-65	0.379795372	0.785	0.514	2.68E-60	6 AF117829.1
1.16E-73	0.379488239	0.753	0.467	3.73E-69	6 STRBP
1.39E-53	0.379357798	0.297	0.136	4.48E-49	6 AC093607.1
4.36E-125	0.379334239	0.705	0.355	1.40E-120	6 TGFB2
7.12E-57	0.379124424	0.395	0.198	2.29E-52	6 ROR1
2.98E-79	0.378983156	0.669	0.389	9.58E-75	6 MYSM1
6.34E-90	0.376646443	0.554	0.283	2.03E-85	6 ETFDH
1.30E-63	0.376317174	0.509	0.278	4.17E-59	6 DSTN
5.22E-32	0.374888385	0.309	0.175	1.68E-27	6 LINC01505
3.55E-148	0.374811477	0.286	0.073	1.14E-143	6 IL1RL2
4.01E-45	0.374744673	0.472	0.278	1.29E-40	6 SGMS2
2.63E-140	0.374275071	0.545	0.214	8.44E-136	6 UST
7.95E-121	0.371286509	0.304	0.093	2.55E-116	6 NAAA
9.20E-76	0.370112742	0.744	0.459	2.95E-71	6 DMTF1
1.94E-110	0.369344298	0.261	0.077	6.25E-106	6 S100A10
2.72E-75	0.368597388	0.803	0.479	8.75E-71	6 NOS1AP
2.10E-76	0.368569458	0.63	0.366	6.74E-72	6 UQCRC2
6.85E-87	0.368110382	0.473	0.222	2.20E-82	6 STK17A
4.24E-71	0.36742818	0.608	0.35	1.36E-66	6 CHKA
1.93E-54	0.367179139	0.444	0.24	6.19E-50	6 CASC2
2.50E-104	0.367120614	0.549	0.26	8.01E-100	6 NAIP4
1.54E-53	0.366594621	0.411	0.219	4.95E-49	6 AL359710.1
6.76E-77	0.366267257	0.989	0.819	2.17E-72	6 MSI2
4.43E-58	0.366010614	0.803	0.535	1.42E-53	6 DAPK1
2.45E-132	0.36594547	0.488	0.187	7.86E-128	6 TMEM72
3.44E-106	0.365548138	0.606	0.283	1.11E-101	6 PLEKHH2
4.73E-110	0.365431169	0.517	0.229	1.52E-105	6 PLIN5
3.16E-132	0.36528326	0.318	0.093	1.02E-127	6 EPHA4
1.88E-91	0.364558503	0.522	0.26	6.03E-87	6 AC138393.1
2.02E-101	0.36349836	0.358	0.134	6.48E-97	6 LINC00240
1.15E-58	0.363341929	0.495	0.279	3.70E-54	6 ANP32AP1
2.96E-74	0.363026319	0.482	0.244	9.51E-70	6 SDC4
3.15E-81	0.362743797	0.453	0.21	1.01E-76	6 SPAG17
1.70E-85	0.362719773	0.732	0.432	5.47E-81	6 TTC14
1.10E-64	0.36162722	0.575	0.327	3.53E-60	6 ASPH
5.74E-29	0.360458454	0.272	0.153	1.84E-24	6 EEPD1
2.51E-57	0.359698809	0.649	0.404	8.05E-53	6 LINC01362
1.58E-69	0.359443557	0.502	0.269	5.06E-65	6 LINC02241
1.94E-31	0.359376944	0.431	0.271	6.23E-27	6 KCTD8
2.87E-99	0.358924788	0.749	0.402	9.23E-95	6 KCNQ1
4.57E-57	0.357868794	0.86	0.608	1.47E-52	6 AUH
2.09E-58	0.357783082	0.477	0.266	6.70E-54	6 CDKL5
2.07E-158	0.357623494	0.301	0.078	6.65E-154	6 AC004982.2
3.45E-94	0.357581505	0.466	0.213	1.11E-89	6 GUSBP14
3.04E-86	0.356976618	0.474	0.224	9.75E-82	6 TNIP1
2.85E-88	0.356891164	0.442	0.199	9.16E-84	6 HPRT1
3.93E-75	0.356235365	0.7	0.415	1.26E-70	6 DNMI1L
2.60E-70	0.356084023	0.329	0.14	8.34E-66	6 SORCS2

2.48E-96	0.355547285	0.403	0.167	7.96E-92	6 LINC02062
9.09E-67	0.355121027	0.62	0.361	2.92E-62	6 SMIM8
2.75E-82	0.354666658	0.76	0.446	8.82E-78	6 TOM1L2
1.18E-101	0.354634754	0.544	0.245	3.79E-97	6 BTBD11
5.29E-57	0.354382009	0.804	0.555	1.70E-52	6 MARCHF6
1.93E-36	0.354122465	0.256	0.127	6.20E-32	6 AC012501.2
5.03E-82	0.354026569	0.41	0.185	1.62E-77	6 HACD2
5.55E-96	0.353470979	0.337	0.123	1.78E-91	6 AC092162.2
2.11E-66	0.352405265	0.658	0.398	6.79E-62	6 NDUFS4
5.37E-77	0.35085207	0.63	0.353	1.72E-72	6 ENSA
3.80E-64	0.350710704	0.799	0.524	1.22E-59	6 ZHX2
8.49E-61	0.349931958	0.362	0.174	2.73E-56	6 TES
1.49E-150	0.349610275	0.282	0.072	4.78E-146	6 SLC25A4
1.48E-60	0.348361355	0.503	0.283	4.74E-56	6 CMC2
8.35E-65	0.348293164	0.62	0.351	2.68E-60	6 NTN4
1.84E-109	0.348069276	0.286	0.089	5.92E-105	6 WEE1
4.86E-44	0.34774058	0.405	0.226	1.56E-39	6 TAFA2
2.68E-84	0.347728615	0.488	0.238	8.62E-80	6 AC244669.1
8.21E-69	0.347205736	0.429	0.211	2.64E-64	6 LRRC8B
1.49E-90	0.346997164	0.514	0.245	4.78E-86	6 ITPRID2
4.30E-58	0.345602458	0.603	0.37	1.38E-53	6 IMMP1L
1.02E-64	0.345326608	0.84	0.539	3.29E-60	6 TPST1
2.55E-48	0.34442766	0.937	0.72	8.18E-44	6 ANKRD17
5.63E-37	0.343795478	0.881	0.705	1.81E-32	6 MACROD2
1.91E-163	0.342139719	0.274	0.064	6.14E-159	6 CTBS
3.14E-50	0.342098525	0.931	0.705	1.01E-45	6 MKLN1
4.56E-66	0.341856231	0.772	0.482	1.46E-61	6 CCDC18-AS1
7.98E-111	0.341440221	0.271	0.083	2.56E-106	6 SULT1C3
1.06E-60	0.341367373	0.361	0.17	3.41E-56	6 S100A6
3.89E-41	0.338072151	0.732	0.504	1.25E-36	6 MAN1A1
1.78E-52	0.337825674	0.82	0.565	5.71E-48	6 SPIN1
1.61E-79	0.337732967	0.62	0.329	5.16E-75	6 TMEM116
1.03E-91	0.33770926	0.655	0.34	3.31E-87	6 RAP1GAP2
6.30E-59	0.33702833	0.446	0.235	2.02E-54	6 CPVL
5.77E-82	0.336802211	0.335	0.134	1.85E-77	6 LIPH
8.98E-62	0.336447721	0.405	0.199	2.88E-57	6 AC104596.1
4.36E-39	0.336098629	0.667	0.455	1.40E-34	6 RFX3-AS1
5.63E-60	0.335958737	0.788	0.515	1.81E-55	6 TDRD3
1.68E-63	0.335653002	0.626	0.378	5.40E-59	6 CUL1
2.63E-95	0.335294875	0.312	0.112	8.44E-91	6 DEUP1
5.86E-91	0.334687363	0.358	0.143	1.88E-86	6 HOMER2
1.27E-88	0.33384862	0.598	0.305	4.09E-84	6 KLF9
5.88E-65	0.333429218	0.708	0.438	1.89E-60	6 ARMCX4
2.01E-50	0.333261635	0.445	0.249	6.46E-46	6 PRRG1
4.18E-75	0.332744463	0.638	0.361	1.34E-70	6 OIP5-AS1
6.10E-56	0.331700562	0.551	0.321	1.96E-51	6 AC046134.2
2.42E-70	0.331431152	0.619	0.355	7.77E-66	6 PNPLA8
5.69E-73	0.330807027	0.558	0.304	1.83E-68	6 RAB30-DT
2.60E-67	0.330625128	0.333	0.146	8.36E-63	6 SLCO4C1
2.26E-73	0.330406079	0.599	0.337	7.26E-69	6 ZNF493
2.47E-83	0.329776375	0.448	0.208	7.93E-79	6 AL132780.1

2.51E-140	0.329222027	0.31	0.086	8.08E-136	6 STARD8
7.73E-78	0.329221527	0.521	0.269	2.48E-73	6 LETMD1
6.08E-105	0.329179667	0.276	0.087	1.95E-100	6 IFTAP
4.68E-86	0.329174574	0.493	0.236	1.50E-81	6 DNHD1
6.42E-45	0.328625853	0.717	0.476	2.06E-40	6 SLC44A3-AS1
1.33E-32	0.327776583	0.603	0.418	4.27E-28	6 MYH9
1.66E-57	0.32759964	0.372	0.183	5.34E-53	6 ELOVL6
1.95E-64	0.326796234	0.741	0.464	6.27E-60	6 SNRK
6.11E-97	0.326739981	0.311	0.109	1.96E-92	6 MIR503HG
5.15E-52	0.325430015	0.337	0.167	1.65E-47	6 AC011346.1
2.50E-48	0.325339321	0.796	0.538	8.03E-44	6 RAB3IP
2.10E-65	0.325095159	0.443	0.23	6.74E-61	6 GTF2H2C
4.65E-61	0.325070687	0.752	0.473	1.49E-56	6 PRKAA2
4.37E-56	0.324331713	0.783	0.527	1.40E-51	6 KIAA0232
1.17E-60	0.323881355	0.495	0.271	3.75E-56	6 SORT1
1.03E-65	0.323727348	0.592	0.347	3.31E-61	6 LINC02256
2.30E-77	0.32352113	0.997	0.769	7.37E-73	6 MECOM
7.09E-80	0.322516251	0.429	0.19	2.28E-75	6 AQP4-AS1
3.20E-54	0.32149655	0.764	0.503	1.03E-49	6 TAOK3
1.20E-73	0.321309777	0.526	0.272	3.87E-69	6 FAM227B
3.16E-78	0.320523925	0.408	0.187	1.02E-73	6 DBT
7.31E-59	0.319964452	0.716	0.437	2.35E-54	6 PAQR5
1.08E-117	0.319403224	0.329	0.108	3.47E-113	6 PRXL2A
9.92E-69	0.319206376	0.429	0.212	3.19E-64	6 TXNRD1
2.47E-62	0.318742318	0.273	0.114	7.92E-58	6 MRPS30-DT
3.68E-233	0.318573392	0.716	0.272	1.18E-228	6 ALDH1A2
5.32E-82	0.318169411	0.373	0.162	1.71E-77	6 AC007637.1
6.34E-101	0.317928086	0.401	0.163	2.04E-96	6 GUSBP15
7.41E-42	0.317697221	0.44	0.261	2.38E-37	6 KAT2B
2.98E-39	0.316798794	0.945	0.762	9.57E-35	6 IGF1R
1.41E-48	0.316571291	0.754	0.499	4.53E-44	6 DENND1B
4.72E-56	0.316347763	0.691	0.436	1.52E-51	6 TFCP2
4.67E-66	0.316022932	0.401	0.187	1.50E-61	6 AC078980.1
2.80E-60	0.315792325	0.401	0.2	8.98E-56	6 LIX1-AS1
2.74E-58	0.315140894	0.7	0.449	8.79E-54	6 DHX15
9.27E-59	0.314789145	0.271	0.115	2.98E-54	6 STUM
4.79E-48	0.314364214	0.663	0.429	1.54E-43	6 CCDC171
4.37E-52	0.314055201	0.66	0.43	1.40E-47	6 SF1
2.74E-167	0.313954872	0.268	0.058	8.81E-163	6 DUSP9
8.57E-65	0.313148896	0.744	0.466	2.75E-60	6 PKD2
2.35E-96	0.313054134	0.491	0.222	7.53E-92	6 PXN
8.49E-47	0.312295734	0.643	0.415	2.73E-42	6 HLCS
1.53E-76	0.311647976	0.406	0.186	4.92E-72	6 PDCD4
3.99E-91	0.311577365	0.352	0.14	1.28E-86	6 SEPTIN7P9
1.14E-85	0.311379892	0.405	0.173	3.67E-81	6 AC011447.3
1.39E-68	0.31135499	0.45	0.23	4.47E-64	6 NHLRC3
1.34E-76	0.310845494	0.541	0.285	4.29E-72	6 AC138207.8
3.34E-72	0.310774737	0.494	0.254	1.07E-67	6 C2CD3
3.99E-62	0.310302647	0.614	0.366	1.28E-57	6 MIER1
6.92E-90	0.309994192	0.279	0.098	2.22E-85	6 GSTA4
1.76E-46	0.309605333	0.57	0.36	5.66E-42	6 VRK2

8.47E-54	0.309015169	0.546	0.324	2.72E-49	6 ASB3
1.72E-60	0.308838805	0.675	0.412	5.51E-56	6 DAAM1
5.72E-99	0.308835764	0.341	0.127	1.84E-94	6 ATP1A1-AS1
1.14E-82	0.308658109	0.268	0.093	3.67E-78	6 PAG1
2.25E-75	0.308601314	0.365	0.162	7.22E-71	6 ACYP1
3.22E-58	0.308217155	0.695	0.429	1.03E-53	6 RHBDD1
1.31E-73	0.307706781	0.391	0.179	4.20E-69	6 PGM1
1.63E-62	0.307614968	0.445	0.231	5.25E-58	6 CCNB1IP1
9.12E-57	0.306890975	0.738	0.479	2.93E-52	6 CLEC16A
2.02E-58	0.306112228	0.772	0.506	6.47E-54	6 ZNF254
2.92E-75	0.305376079	0.401	0.184	9.39E-71	6 IGSF3
5.30E-29	0.305366593	0.69	0.507	1.70E-24	6 ELF1
1.90E-70	0.304733537	0.447	0.223	6.10E-66	6 TOR1AIP2
2.44E-64	0.304652759	0.58	0.332	7.83E-60	6 KCTD3
1.13E-53	0.304540985	0.917	0.682	3.62E-49	6 HNRNPA2B1
1.06E-94	0.30432146	0.375	0.149	3.42E-90	6 AC245297.1
3.87E-75	0.304083396	0.268	0.1	1.24E-70	6 FA2H
2.81E-58	0.304035884	0.611	0.362	9.03E-54	6 CU633904.1
4.86E-68	0.303895445	0.525	0.285	1.56E-63	6 LINC00174
4.42E-70	0.302986823	0.619	0.346	1.42E-65	6 SPPL2A
1.56E-67	0.302949077	0.621	0.353	5.02E-63	6 BCL2L14
1.83E-81	0.302101929	0.341	0.14	5.89E-77	6 DLG3
9.95E-60	0.301689777	0.628	0.377	3.20E-55	6 CPT1A
8.64E-34	0.301069936	0.438	0.275	2.77E-29	6 CSRNP3
1.07E-40	0.299623073	0.514	0.32	3.42E-36	6 AC009690.2
3.01E-53	0.299419489	0.688	0.438	9.67E-49	6 AP2B1
6.68E-122	0.299030576	0.683	0.307	2.15E-117	6 LDLRAD4
3.56E-57	0.298859954	0.341	0.164	1.14E-52	6 ENTPD3-AS1
2.87E-55	0.298608173	0.632	0.385	9.21E-51	6 PTAR1
6.08E-70	0.297599019	0.394	0.187	1.95E-65	6 EPN1
2.41E-47	0.297282715	0.694	0.45	7.75E-43	6 FRK
2.31E-98	0.296999257	0.27	0.086	7.40E-94	6 AP1S2
2.01E-53	0.296279811	0.65	0.405	6.46E-49	6 EEA1
1.53E-66	0.295588784	0.397	0.19	4.92E-62	6 MBNL3
1.39E-98	0.295574044	0.321	0.113	4.47E-94	6 TMM45B
2.38E-87	0.295503822	0.576	0.281	7.66E-83	6 MAL
1.17E-107	0.295267696	0.25	0.072	3.75E-103	6 WNT5B
2.28E-67	0.295210202	0.442	0.22	7.34E-63	6 PLOD2
4.23E-80	0.295170124	0.292	0.111	1.36E-75	6 SLC12A8
2.80E-52	0.294964319	0.473	0.265	9.00E-48	6 STX18-AS1
2.59E-58	0.29468741	0.692	0.422	8.33E-54	6 SRGAP3
6.55E-75	0.293961993	0.496	0.253	2.10E-70	6 ITFG2
1.20E-18	0.293769542	0.467	0.326	3.85E-14	6 MET
3.24E-43	0.293763107	0.843	0.603	1.04E-38	6 CHCHD3
3.41E-43	0.293034512	0.796	0.559	1.10E-38	6 SGMS1
1.25E-57	0.292376897	0.615	0.365	4.00E-53	6 CDKL1
1.02E-95	0.292275318	0.302	0.107	3.28E-91	6 MARVELD2
1.43E-47	0.292211516	0.489	0.291	4.58E-43	6 ARFGAP3
2.83E-60	0.291628311	0.599	0.349	9.09E-56	6 HSDL2
1.21E-69	0.291538084	0.426	0.207	3.87E-65	6 DESI2
1.15E-47	0.290444306	0.603	0.382	3.69E-43	6 OXNAD1

3.09E-39	0.290324324	0.837	0.614	9.94E-35	6 ANKRD28
1.00E-78	0.290309023	0.616	0.333	3.21E-74	6 GPI
1.30E-48	0.29015034	0.567	0.34	4.18E-44	6 AC092944.1
5.63E-85	0.289950043	0.344	0.138	1.81E-80	6 ADAL
1.63E-67	0.289280774	0.496	0.259	5.22E-63	6 PPTC7
1.06E-61	0.288770821	0.503	0.275	3.40E-57	6 HADHB
2.21E-73	0.288679754	0.583	0.314	7.10E-69	6 LRP6
1.01E-55	0.288631107	0.692	0.438	3.26E-51	6 CPSF6
1.13E-57	0.288612722	0.855	0.587	3.62E-53	6 ZRANB2
1.10E-42	0.288554039	0.862	0.626	3.54E-38	6 TMCC1
3.35E-65	0.288519209	0.737	0.426	1.07E-60	6 KCNJ16
1.07E-63	0.288479481	0.466	0.248	3.43E-59	6 DMAC2L
7.57E-81	0.288174896	0.292	0.106	2.43E-76	6 KCNK13
9.63E-57	0.287309439	0.664	0.416	3.09E-52	6 FRS2
6.51E-90	0.287056943	0.53	0.252	2.09E-85	6 SGK2
1.14E-49	0.286977822	0.51	0.297	3.65E-45	6 CAPS2
6.72E-85	0.286914147	0.365	0.15	2.16E-80	6 AL158066.1
1.38E-57	0.286565417	0.473	0.251	4.42E-53	6 DOCK3
1.21E-112	0.286450327	0.272	0.08	3.90E-108	6 HOXC4
8.16E-91	0.286348103	0.267	0.09	2.62E-86	6 UQCC2
1.63E-60	0.286207448	0.446	0.234	5.24E-56	6 ZNF680
1.63E-64	0.285933238	0.444	0.224	5.24E-60	6 OSMR-AS1
6.32E-49	0.285786315	0.491	0.282	2.03E-44	6 BDNF-AS
8.12E-54	0.285005098	0.615	0.379	2.61E-49	6 AFTPH
4.73E-36	0.284827824	0.292	0.155	1.52E-31	6 ABHD3
4.89E-60	0.283996906	0.575	0.331	1.57E-55	6 MIRLET7BHG
1.22E-57	0.283333826	0.746	0.48	3.92E-53	6 SDHAP1
6.39E-54	0.283054232	0.388	0.201	2.05E-49	6 MRPS9
9.56E-60	0.281605123	0.471	0.254	3.07E-55	6 MYO19
2.49E-95	0.281071898	0.301	0.105	7.98E-91	6 AHDC1
4.42E-53	0.280735322	0.349	0.175	1.42E-48	6 LANCL1-AS1
4.61E-63	0.280692534	0.552	0.31	1.48E-58	6 IMMT
3.47E-51	0.280287538	0.42	0.224	1.11E-46	6 SCGB2B2
5.54E-32	0.279698351	0.668	0.475	1.78E-27	6 POU2F1
1.08E-81	0.279544644	0.322	0.127	3.47E-77	6 ZNF135
2.65E-53	0.279526399	0.413	0.223	8.52E-49	6 NAPB
6.77E-86	0.279499855	0.29	0.105	2.18E-81	6 SULT1C2P1
2.39E-71	0.279340654	0.261	0.099	7.66E-67	6 B4GALT6
9.31E-48	0.279314849	0.853	0.603	2.99E-43	6 USP24
3.07E-64	0.278288997	0.446	0.229	9.86E-60	6 ZNF138
1.31E-45	0.27807906	0.579	0.359	4.22E-41	6 TBCA
4.79E-27	0.277564879	0.924	0.755	1.54E-22	6 KIAA1217
2.89E-46	0.277458018	0.293	0.144	9.27E-42	6 TSPOAP1-AS1
4.63E-66	0.277332833	0.52	0.281	1.49E-61	6 GTF2H2B
6.17E-34	0.276885747	0.681	0.484	1.98E-29	6 DIAPH1
2.25E-62	0.276866544	0.381	0.179	7.23E-58	6 MPP6
5.22E-44	0.276835895	0.639	0.41	1.68E-39	6 TCAIM
6.48E-49	0.276797195	0.739	0.494	2.08E-44	6 ARFGF2
2.15E-31	0.276008189	0.288	0.161	6.91E-27	6 NAB1
1.71E-37	0.276007269	0.421	0.25	5.50E-33	6 NOVA1
4.87E-82	0.275642999	0.285	0.105	1.56E-77	6 ZNF682

7.98E-51	0.275558055	0.807	0.542	2.56E-46	6 PCMTD1
1.09E-38	0.275544746	0.449	0.27	3.49E-34	6 ANKRD6
9.13E-62	0.275087391	0.767	0.489	2.93E-57	6 NBPFI4
2.66E-57	0.274415004	0.672	0.415	8.55E-53	6 TVP23C-CDRT4
8.53E-35	0.274090335	0.841	0.617	2.74E-30	6 VPS13D
2.64E-60	0.274065659	0.579	0.334	8.49E-56	6 TRIM24
3.52E-52	0.273747794	0.383	0.198	1.13E-47	6 CEMIP
6.05E-67	0.273732106	0.356	0.161	1.94E-62	6 AL035530.2
6.35E-52	0.273521807	0.272	0.121	2.04E-47	6 AC007161.3
2.39E-47	0.273452994	0.591	0.367	7.68E-43	6 SS18
3.07E-92	0.273284982	0.893	0.542	9.86E-88	6 COL4A3
3.89E-34	0.27274569	0.963	0.789	1.25E-29	6 SIK3
1.90E-65	0.272604349	0.514	0.278	6.11E-61	6 GTF2H2
4.49E-30	0.272523343	0.736	0.533	1.44E-25	6 SPAG16
1.18E-43	0.272373886	0.558	0.349	3.80E-39	6 PCBD2
2.61E-54	0.272359383	0.492	0.278	8.39E-50	6 FP236241.1
5.58E-56	0.272343748	0.596	0.357	1.79E-51	6 GOLPH3
9.97E-54	0.272279007	0.529	0.298	3.20E-49	6 ASXL3
2.08E-57	0.271700374	0.451	0.242	6.66E-53	6 SERP1
7.86E-62	0.271234057	0.536	0.291	2.52E-57	6 ANKH
1.14E-88	0.271009508	0.445	0.197	3.67E-84	6 NAIPP2
7.24E-28	0.270403394	0.9	0.705	2.33E-23	6 NCOA2
8.18E-45	0.269688839	0.515	0.309	2.63E-40	6 MBOAT2
2.08E-39	0.269616471	0.557	0.353	6.67E-35	6 JADE1
5.41E-32	0.269406242	0.292	0.16	1.74E-27	6 AC073475.1
5.51E-91	0.269370905	0.251	0.08	1.77E-86	6 ZNF711
6.16E-58	0.269183937	0.521	0.295	1.98E-53	6 ASCC1
1.63E-61	0.268627336	0.545	0.305	5.24E-57	6 DNMT3A
3.36E-62	0.268459028	0.641	0.384	1.08E-57	6 RNF10
3.02E-57	0.268171576	0.277	0.12	9.69E-53	6 AC106791.1
6.11E-70	0.267929388	0.272	0.106	1.96E-65	6 THBS4
2.13E-30	0.267341431	0.261	0.142	6.83E-26	6 HBG2
1.06E-59	0.267006102	0.4	0.201	3.40E-55	6 LPXN
2.47E-45	0.266534243	0.52	0.314	7.92E-41	6 ZSCAN5A
8.01E-90	0.266171187	0.349	0.136	2.57E-85	6 GLRX
9.44E-45	0.2654225	0.762	0.505	3.03E-40	6 AC068205.2
6.64E-46	0.264942895	0.754	0.509	2.13E-41	6 DICER1
1.67E-72	0.264400722	0.418	0.189	5.37E-68	6 MAP2K6
9.26E-53	0.264249995	0.421	0.23	2.97E-48	6 AP5M1
1.18E-33	0.264115621	0.829	0.605	3.78E-29	6 DPH6
6.81E-72	0.263572856	0.387	0.176	2.19E-67	6 CEP120
5.41E-51	0.263340509	0.506	0.292	1.74E-46	6 ZNRF2P2
5.23E-49	0.263248374	0.6	0.367	1.68E-44	6 IQCH
5.48E-38	0.263082187	0.828	0.587	1.76E-33	6 TENT2
6.46E-47	0.262809629	0.48	0.277	2.08E-42	6 TMEM65
7.60E-67	0.262635706	0.53	0.285	2.44E-62	6 DNAJC11
1.30E-22	0.262282561	0.653	0.482	4.17E-18	6 SNX9
4.08E-53	0.262265058	0.66	0.404	1.31E-48	6 DNAH7
8.19E-55	0.262137673	0.587	0.345	2.63E-50	6 PRKCI
8.58E-79	0.262094624	0.444	0.205	2.76E-74	6 TSPAN14
4.37E-61	0.261660795	0.432	0.221	1.40E-56	6 ABHD12

6.20E-53	0.261648694	0.369	0.188	1.99E-48	6 SVOPL
3.06E-55	0.261549638	0.369	0.187	9.81E-51	6 ZBTB37
3.14E-51	0.26066365	0.337	0.166	1.01E-46	6 TMED11P
1.16E-34	0.25997975	0.7	0.488	3.72E-30	6 UMAD1
3.67E-43	0.259301261	0.301	0.148	1.18E-38	6 PHYHIPL
1.04E-52	0.259229489	0.379	0.195	3.33E-48	6 RAVR2
1.73E-22	0.258818096	0.393	0.258	5.57E-18	6 LINC01266
1.16E-62	0.258557672	0.492	0.264	3.72E-58	6 RIC3
5.05E-55	0.258400243	0.483	0.267	1.62E-50	6 TRAK2
6.96E-38	0.258306489	0.776	0.549	2.24E-33	6 TSC22D1
1.55E-70	0.257854493	0.349	0.153	4.97E-66	6 B3GNT2
4.42E-134	0.257499824	0.627	0.265	1.42E-129	6 ADAMTS17
3.34E-63	0.257297952	0.796	0.475	1.07E-58	6 HOXB3
1.31E-55	0.257046862	0.515	0.291	4.20E-51	6 MRRF
2.88E-63	0.256767879	0.472	0.243	9.26E-59	6 MYO5C
4.61E-67	0.256522532	0.515	0.271	1.48E-62	6 PKM
2.54E-54	0.256018329	0.474	0.262	8.15E-50	6 ZNF736
6.55E-47	0.255417957	0.45	0.251	2.10E-42	6 CTNNAL1
2.77E-109	0.255141429	0.343	0.118	8.89E-105	6 PGAP6
3.82E-58	0.255065675	0.499	0.28	1.23E-53	6 CIBAR1
2.12E-42	0.254965184	0.528	0.324	6.79E-38	6 TTN-AS1
7.76E-53	0.254663955	0.373	0.188	2.49E-48	6 AKAP7
2.57E-29	0.254518965	0.888	0.681	8.27E-25	6 UBE2H
2.75E-55	0.25448798	0.591	0.351	8.84E-51	6 CNN3
2.83E-48	0.254451993	0.518	0.309	9.10E-44	6 WDR41
1.06E-49	0.254364462	0.595	0.369	3.41E-45	6 ANO6
1.03E-22	0.254185495	0.334	0.21	3.32E-18	6 GPR137B
1.90E-71	0.254063405	0.347	0.151	6.11E-67	6 AKAP1
2.37E-52	0.254005745	0.595	0.357	7.61E-48	6 ZBTB44
1.36E-57	0.253919295	0.573	0.325	4.37E-53	6 ZNF532
9.70E-52	0.253884335	0.554	0.334	3.12E-47	6 UBQLN1
1.49E-37	0.253673567	0.685	0.466	4.80E-33	6 CCDC7
6.36E-39	0.253657573	0.542	0.342	2.04E-34	6 ACSL1
8.22E-67	0.253411234	0.905	0.595	2.64E-62	6 ITPR1
1.91E-50	0.25305614	0.474	0.266	6.13E-46	6 TTC28-AS1
2.06E-66	0.252791737	0.372	0.171	6.62E-62	6 NFE2L3
9.55E-57	0.252740424	0.545	0.309	3.07E-52	6 ETFA
2.58E-68	0.252332539	0.306	0.127	8.30E-64	6 AC009061.2
5.30E-56	0.252249687	0.574	0.337	1.70E-51	6 ATAD1
1.83E-37	0.251342176	0.849	0.607	5.87E-33	6 DNAH14
4.22E-93	0.251109308	0.562	0.26	1.36E-88	6 SCTR
1.25E-49	0.25088535	0.497	0.286	4.02E-45	6 ATP6V0E1
3.33E-70	0.250749424	0.426	0.205	1.07E-65	6 ZNF433-AS1
0	2.908749232	0.966	0.211	0	7 LINC01098
0	2.809596998	0.645	0.192	0	7 LSAMP
0	2.613673761	0.655	0.204	0	7 SNTG1
0	2.485975791	0.505	0.052	0	7 AC092691.1
0	2.455396674	0.796	0.227	0	7 RUNX1
0	2.43731034	0.956	0.337	0	7 MYO1B
0	2.429388591	0.742	0.234	0	7 GS1-24F4.2
0	2.354992943	0.985	0.476	0	7 SLC8A1

0	2.181910318	0.992	0.765	0	7 ARL15
0	2.097032567	0.956	0.427	0	7 TEX41
4.20E-293	2.095402122	0.898	0.497	1.35E-288	7 RTN4
0	2.077615816	0.884	0.408	0	7 VCL
1.55E-242	2.074228917	0.499	0.151	4.98E-238	7 RGS6
0	2.069993092	0.896	0.209	0	7 BHLHE40
0	2.063448584	0.977	0.662	0	7 FNDC3A
0	2.057822639	0.715	0.062	0	7 KRT19
0	2.023711186	0.881	0.476	0	7 SMAD3
0	2.006162922	0.949	0.52	0	7 ABTB2
0	1.974788054	0.894	0.323	0	7 CSGALNACT1
0	1.938836348	0.922	0.292	0	7 SLC8A1-AS1
3.19E-237	1.91722965	0.785	0.394	1.02E-232	7 ITGA2
0	1.891709448	0.989	0.774	0	7 GLIS3
9.94E-158	1.886492464	0.65	0.381	3.19E-153	7 TOX
0	1.86082969	0.928	0.463	0	7 TOX3
0	1.851378442	1	0.972	0	7 PDE4D
0	1.847436143	0.705	0.14	0	7 KCNIP1
0	1.801511408	0.635	0.077	0	7 IER3
0	1.799004494	0.798	0.172	0	7 APCDD1L-DT
0	1.789900533	0.608	0.169	0	7 MIR222HG
2.33E-245	1.747977928	0.804	0.392	7.48E-241	7 MIR4435-2HG
0	1.746862218	0.964	0.388	0	7 PIK3C2G
3.23E-267	1.695068202	0.671	0.24	1.04E-262	7 ITGB6
0	1.689827841	0.992	0.605	0	7 PRKG1
5.06E-124	1.673087971	0.823	0.611	1.62E-119	7 PDE10A
0	1.66195145	0.633	0.147	0	7 SGK1
0	1.659775917	0.634	0.176	0	7 MAP3K14
0	1.656618574	0.64	0.192	0	7 CYTOR
0	1.655940722	0.656	0.191	0	7 CALB1
0	1.641869981	0.477	0.107	0	7 UPP1
0	1.636006394	0.992	0.816	0	7 COBLL1
0	1.633625107	0.742	0.223	0	7 ACTG1
0	1.632532118	0.367	0.061	0	7 S100A2
0	1.63119068	0.626	0.154	0	7 S100A6
0	1.595536059	0.596	0.15	0	7 FAM102A
0	1.573939278	1	0.769	0	7 MECOM
0	1.568420004	0.642	0.059	0	7 ADM
0	1.554282963	0.731	0.271	0	7 DEFB1
0	1.548910091	0.925	0.35	0	7 SOX5
6.49E-264	1.542220264	0.963	0.715	2.08E-259	7 GLS
0	1.541608868	0.664	0.139	0	7 GDF15
0	1.535776858	0.995	0.687	0	7 WSB1
0	1.521563148	0.969	0.596	0	7 LRRFIP1
6.70E-124	1.520034697	0.535	0.254	2.15E-119	7 HOMER1
1.60E-162	1.475848791	0.275	0.066	5.13E-158	7 PSG9
0	1.475510138	0.99	0.678	0	7 CADPS2
0	1.465966054	0.795	0.298	0	7 ACTB
0	1.451917467	0.766	0.26	0	7 MID1
1.24E-269	1.432444963	0.688	0.244	3.97E-265	7 KITLG
2.14E-286	1.430545285	0.47	0.116	6.87E-282	7 ELF3

0	1.426628501	0.686	0.173	0	7 GADD45B
1.49E-243	1.404757872	0.867	0.456	4.79E-239	7 ITGAV
0	1.39793728	0.729	0.252	0	7 PFKP
0	1.38645161	0.968	0.528	0	7 GRIP1
0	1.386044106	0.932	0.501	0	7 DPY19L2
0	1.384905001	0.356	0.038	0	7 SLC2A1
3.40E-296	1.378903154	0.504	0.125	1.09E-291	7 PCDH7
4.25E-287	1.376898418	0.869	0.469	1.37E-282	7 ACTN4
2.02E-202	1.35338193	0.876	0.542	6.49E-198	7 ARID5B
5.57E-301	1.334983453	0.899	0.452	1.79E-296	7 SPIRE1
6.39E-178	1.33466979	0.677	0.332	2.05E-173	7 SLC44A1
6.54E-194	1.32864005	0.943	0.686	2.10E-189	7 ZSWIM6
0	1.32849924	0.782	0.211	0	7 EMX1
2.05E-294	1.324602628	0.644	0.201	6.58E-290	7 NFKBIZ
0	1.32446917	0.727	0.247	0	7 DOT1L
1.04E-297	1.322967714	0.805	0.331	3.34E-293	7 SGPP1
2.76E-243	1.321436918	0.933	0.609	8.86E-239	7 GAREM1
2.25E-66	1.318155759	0.68	0.483	7.23E-62	7 SMARCA2
1.74E-180	1.305318406	0.917	0.656	5.58E-176	7 PPARGC1A
0	1.298060418	0.983	0.793	0	7 MED13L
8.70E-234	1.291897074	0.846	0.446	2.79E-229	7 RBBP8
2.01E-217	1.277142185	0.724	0.325	6.45E-213	7 PAPP A
0	1.268870999	0.703	0.159	0	7 HUNK
2.04E-233	1.267168959	0.744	0.334	6.54E-229	7 RNLS
0	1.262417288	0.925	0.317	0	7 BMPR1B
0	1.249976351	0.826	0.246	0	7 PDE1C
1.32E-172	1.249804064	0.837	0.469	4.24E-168	7 NDRG1
5.73E-116	1.246848396	0.503	0.225	1.84E-111	7 SLC20A1
1.33E-230	1.245037029	0.929	0.581	4.28E-226	7 PRKAG2
3.73E-264	1.232343226	0.872	0.407	1.20E-259	7 TMTC2
1.88E-233	1.228970455	0.897	0.465	6.04E-229	7 AC138305.1
6.04E-308	1.220962217	0.999	0.752	1.94E-303	7 AC019197.1
0	1.200076104	0.804	0.25	0	7 NRCAM
1.60E-221	1.193970391	0.917	0.513	5.13E-217	7 OSBPL3
3.31E-238	1.191404181	0.526	0.16	1.06E-233	7 ANGPT1
3.54E-161	1.185305953	0.495	0.184	1.14E-156	7 PFKFB3
0	1.180593693	0.531	0.116	0	7 LGALS3
4.73E-205	1.165602752	0.812	0.395	1.52E-200	7 ACSL4
9.33E-212	1.160814927	0.925	0.543	3.00E-207	7 MYO1E
1.13E-244	1.152977543	0.933	0.59	3.64E-240	7 CD2AP
6.82E-217	1.150681465	0.754	0.34	2.19E-212	7 STIM2
6.05E-198	1.14828246	0.816	0.432	1.94E-193	7 PAQR5
0	1.147932335	0.653	0.152	0	7 SLC7A1
1.04E-286	1.144745931	0.671	0.234	3.36E-282	7 SDC4
1.04E-214	1.143351545	0.86	0.49	3.34E-210	7 PPP1CB
6.89E-284	1.141028034	0.779	0.295	2.21E-279	7 FAM110B
2.34E-168	1.138702623	0.672	0.318	7.51E-164	7 LIMA1
6.47E-250	1.12712947	0.837	0.399	2.08E-245	7 GTF2IRD1
2.65E-280	1.126386952	0.583	0.169	8.50E-276	7 BTG2
1.29E-120	1.124989784	0.801	0.477	4.15E-116	7 HIF1A
0	1.120835308	0.353	0.052	0	7 APCDD1L

5.79E-222	1.116999079	0.903	0.556	1.86E-217	7 NLK
3.25E-179	1.11472477	0.65	0.285	1.04E-174	7 LINC02694
1.04E-287	1.113472945	0.802	0.34	3.35E-283	7 SPATS2
4.62E-271	1.10555951	0.726	0.278	1.48E-266	7 FOSL2
1.10E-171	1.099587824	0.798	0.393	3.54E-167	7 SCIN
1.35E-191	1.089897661	0.819	0.446	4.35E-187	7 MCU
1.23E-261	1.087643958	0.654	0.223	3.94E-257	7 NPAS2
2.74E-208	1.080966731	0.697	0.288	8.81E-204	7 ATP1B3
3.04E-260	1.080283021	0.486	0.131	9.78E-256	7 RAB11FIP1
5.20E-249	1.072875439	0.81	0.355	1.67E-244	7 CRYBG1
4.04E-254	1.070166309	0.856	0.425	1.30E-249	7 HDAC4
2.45E-236	1.064488866	0.901	0.548	7.88E-232	7 YAP1
2.54E-208	1.06290606	0.627	0.241	8.16E-204	7 CHSY1
1.82E-204	1.060959548	0.878	0.526	5.83E-200	7 GBE1
3.28E-282	1.060579582	0.526	0.138	1.05E-277	7 EEPD1
9.14E-244	1.05289854	0.914	0.535	2.93E-239	7 TRAK1
1.54E-205	1.050424089	0.842	0.465	4.96E-201	7 TOP1
4.95E-218	1.034884638	0.806	0.395	1.59E-213	7 TMEM51
1.29E-171	1.033920912	0.868	0.521	4.15E-167	7 CYRIB
3.47E-211	1.028840626	0.97	0.676	1.11E-206	7 FHOD3
1.92E-157	1.025815251	0.952	0.703	6.16E-153	7 ATP1B1
2.54E-174	1.009861523	0.788	0.425	8.15E-170	7 SEPTIN9
6.51E-205	1.000130443	0.874	0.499	2.09E-200	7 C4orf19
3.39E-193	0.997801042	0.5	0.17	1.09E-188	7 HMGCS1
8.97E-131	0.996622225	0.703	0.359	2.88E-126	7 AC004593.2
7.36E-248	0.993928153	0.654	0.238	2.36E-243	7 CRY1
7.92E-156	0.992475183	0.714	0.345	2.54E-151	7 SYTL2
2.49E-199	0.991971169	0.652	0.258	7.99E-195	7 KCTD8
2.58E-143	0.989625144	0.873	0.537	8.28E-139	7 ARHGAP29
2.02E-132	0.984084808	0.926	0.669	6.49E-128	7 THSD7A
2.28E-144	0.983160373	0.561	0.247	7.33E-140	7 GNA13
6.50E-285	0.978974887	0.463	0.108	2.09E-280	7 LDLR
3.10E-153	0.977409123	0.514	0.205	9.94E-149	7 EIF2AK3
2.49E-199	0.973721623	0.789	0.383	8.00E-195	7 MYO5A
2.41E-274	0.971790728	0.424	0.092	7.75E-270	7 HMGCS2
3.19E-142	0.965896364	0.826	0.517	1.03E-137	7 HIVEP2
1.95E-186	0.963637504	0.753	0.373	6.25E-182	7 PARD6B
4.41E-207	0.96302023	0.775	0.381	1.42E-202	7 RCOR1
1.42E-220	0.959243986	0.951	0.642	4.55E-216	7 MAP4
2.76E-193	0.95223076	0.895	0.537	8.88E-189	7 MRTFA
8.68E-56	0.947225811	0.521	0.323	2.79E-51	7 MET
1.01E-194	0.942030333	0.952	0.66	3.25E-190	7 MAP4K3
1.05E-207	0.941095737	0.566	0.201	3.36E-203	7 UXS1
3.17E-132	0.940072237	0.861	0.556	1.02E-127	7 WWTR1
7.30E-171	0.933734861	0.94	0.64	2.34E-166	7 RAD51B
6.99E-92	0.93051478	0.62	0.351	2.25E-87	7 IFRD1
4.07E-131	0.922213688	0.878	0.571	1.31E-126	7 WWC1
1.42E-181	0.92192899	0.84	0.475	4.56E-177	7 DIAPH1
1.29E-138	0.920335076	0.644	0.311	4.16E-134	7 KLF6
0	0.911679569	0.541	0.131	0	7 PLCZ1
4.45E-152	0.910666057	0.645	0.311	1.43E-147	7 SNX2

1.21E-178	0.910545894	0.633	0.268	3.87E-174	7 SGMS2
0	0.908000419	0.407	0.077	0	7 RASAL1
3.36E-90	0.907344961	0.665	0.4	1.08E-85	7 CDK6
3.55E-116	0.907209357	0.772	0.445	1.14E-111	7 FAM107B
9.78E-217	0.905561125	0.776	0.352	3.14E-212	7 CHRM3
3.45E-188	0.903308215	0.7	0.321	1.11E-183	7 REEP3
1.02E-275	0.900879447	0.432	0.099	3.27E-271	7 MSMO1
6.74E-196	0.895320075	0.946	0.637	2.17E-191	7 CTNNA1
2.42E-211	0.892854985	0.966	0.599	7.78E-207	7 KCNIP4
3.64E-178	0.888746771	0.848	0.483	1.17E-173	7 EYA3
1.88E-246	0.887902378	0.785	0.353	6.05E-242	7 CU633904.1
1.09E-188	0.887843212	0.977	0.696	3.51E-184	7 PRKCA
5.65E-164	0.886373257	0.495	0.183	1.82E-159	7 TUFT1
0	0.885859466	0.37	0.027	0	7 NR0B2
1.80E-121	0.885298629	0.335	0.112	5.79E-117	7 MIDN
1.44E-211	0.883860265	0.822	0.399	4.61E-207	7 TBC1D8
2.20E-307	0.873554733	0.558	0.146	7.06E-303	7 PIM3
0	0.870150387	0.655	0.188	0	7 SLC38A11
8.91E-185	0.869728748	0.865	0.436	2.86E-180	7 SCN2A
7.44E-238	0.862189518	0.516	0.151	2.39E-233	7 ANXA2
1.31E-200	0.862065872	0.753	0.343	4.20E-196	7 ANXA11
3.34E-95	0.859759913	0.896	0.671	1.07E-90	7 NFE2L2
1.44E-175	0.854067669	0.845	0.438	4.64E-171	7 DACH1
1.38E-107	0.853666669	0.842	0.572	4.43E-103	7 HECTD1
5.47E-185	0.852852036	0.992	0.88	1.76E-180	7 IMMP2L
2.04E-227	0.850291183	0.423	0.107	6.55E-223	7 AQP2
3.73E-99	0.848964069	0.833	0.54	1.20E-94	7 STARD13
7.92E-224	0.847598002	0.868	0.415	2.54E-219	7 HSD11B2
4.90E-277	0.847460588	0.547	0.148	1.57E-272	7 TPM4
1.71E-148	0.846467168	0.667	0.305	5.49E-144	7 CCDC178
2.22E-271	0.846291173	0.464	0.11	7.12E-267	7 BARX2
3.89E-168	0.831800132	0.987	0.826	1.25E-163	7 JMJD1C
1.45E-208	0.83108921	0.413	0.108	4.66E-204	7 AC044810.3
8.91E-128	0.829987679	0.949	0.696	2.86E-123	7 RBM47
5.77E-105	0.829477797	0.909	0.642	1.85E-100	7 SH3RF1
5.81E-244	0.824611263	0.55	0.169	1.87E-239	7 TWSG1
7.43E-78	0.824323327	0.806	0.554	2.39E-73	7 VMP1
1.74E-94	0.819806361	0.777	0.492	5.60E-90	7 LRP1B
1.49E-145	0.819658125	0.963	0.728	4.78E-141	7 NFAT5
3.37E-212	0.81796269	0.662	0.239	1.08E-207	7 MSR1
1.67E-265	0.817497918	0.398	0.086	5.35E-261	7 NT5DC3
5.79E-134	0.814771432	0.959	0.746	1.86E-129	7 BABAM2
1.78E-131	0.810504058	0.532	0.224	5.72E-127	7 LINC01036
2.06E-139	0.809810953	0.777	0.428	6.63E-135	7 STK24
5.15E-195	0.807864197	0.657	0.254	1.65E-190	7 ZNF208
5.12E-114	0.806219386	0.547	0.259	1.64E-109	7 MSN
1.33E-108	0.80542521	0.667	0.343	4.26E-104	7 SGPP2
1.20E-143	0.804971478	0.883	0.581	3.87E-139	7 EML4
2.47E-151	0.802750039	0.971	0.67	7.92E-147	7 KAZN
7.74E-159	0.801064424	0.635	0.288	2.48E-154	7 CHPT1
8.30E-220	0.79976979	0.851	0.397	2.67E-215	7 KCNQ1

3.36E-94	0.797691516	0.675	0.38	1.08E-89	7 ADAMTS16
6.63E-153	0.796292705	0.953	0.648	2.13E-148	7 LIMCH1
9.06E-201	0.794683839	0.727	0.324	2.91E-196	7 PPP4R1
4.12E-124	0.794322978	0.708	0.365	1.32E-119	7 PCDH9
3.87E-210	0.793647942	0.983	0.819	1.24E-205	7 ZFAND3
1.28E-80	0.793169374	0.316	0.129	4.10E-76	7 IL1RAPL1
8.81E-176	0.787517096	0.961	0.725	2.83E-171	7 MYO6
1.19E-126	0.785186279	0.966	0.703	3.81E-122	7 ADAMTS9-AS2
3.95E-130	0.78300862	0.704	0.347	1.27E-125	7 PPARG
8.36E-120	0.782803493	0.956	0.696	2.68E-115	7 FRAS1
2.37E-126	0.781886512	0.808	0.469	7.62E-122	7 ESYT2
1.99E-93	0.78073524	0.826	0.56	6.38E-89	7 DCDC2
9.02E-216	0.778553113	0.76	0.334	2.90E-211	7 SCML1
4.02E-232	0.77779694	0.888	0.385	1.29E-227	7 MPPED2
3.58E-116	0.773804166	0.573	0.276	1.15E-111	7 ZNF395
4.42E-156	0.772918011	0.631	0.277	1.42E-151	7 SH3BP4
3.99E-165	0.772390308	0.527	0.19	1.28E-160	7 MAPK4
7.13E-199	0.772255307	0.666	0.266	2.29E-194	7 RALBP1
9.73E-100	0.764230933	0.966	0.783	3.13E-95	7 NR3C2
3.32E-264	0.762085619	0.537	0.145	1.07E-259	7 AC011586.2
3.21E-57	0.760380787	0.747	0.501	1.03E-52	7 NAV2
2.81E-98	0.759832944	0.895	0.616	9.02E-94	7 ATP1A1
4.01E-181	0.758363081	0.979	0.794	1.29E-176	7 TCF12
2.40E-167	0.756245082	0.648	0.284	7.72E-163	7 PHTF2
1.30E-155	0.755841195	0.642	0.274	4.19E-151	7 CDH1
2.27E-152	0.755504179	0.982	0.776	7.28E-148	7 NAALADL2
0	0.754028091	0.469	0.069	0	7 TNFRSF12A
2.80E-144	0.753390381	0.582	0.254	8.98E-140	7 RAPH1
7.37E-123	0.750387339	0.572	0.26	2.37E-118	7 KSR2
4.03E-123	0.742218349	0.884	0.6	1.30E-118	7 FER
1.19E-194	0.740441667	0.467	0.146	3.82E-190	7 LINC00963
4.87E-71	0.73963549	0.414	0.206	1.56E-66	7 SMS
3.10E-121	0.73950639	0.882	0.567	9.95E-117	7 LAMB1
2.33E-134	0.737575845	0.866	0.505	7.48E-130	7 PTBP3
9.74E-91	0.737069046	0.67	0.385	3.13E-86	7 CMSS1
6.26E-113	0.733292095	0.828	0.547	2.01E-108	7 ADGRL2
6.87E-250	0.731255269	0.629	0.206	2.21E-245	7 CBR3-AS1
7.88E-189	0.730332801	0.285	0.06	2.53E-184	7 AQP3
4.18E-195	0.727753731	0.454	0.139	1.34E-190	7 SLC25A25
2.25E-129	0.721484183	0.631	0.311	7.22E-125	7 SEPTIN10
1.89E-196	0.721249822	0.474	0.15	6.06E-192	7 HMGCR
1.59E-84	0.720485111	0.835	0.55	5.11E-80	7 FNIP2
3.81E-147	0.717405414	0.73	0.377	1.22E-142	7 ACTR3
7.66E-138	0.717013783	0.97	0.741	2.46E-133	7 BTBD9
1.82E-287	0.716290846	0.338	0.056	5.84E-283	7 GATA2
1.27E-101	0.713905734	0.752	0.454	4.07E-97	7 GALNT11
5.86E-255	0.713843198	0.475	0.125	1.88E-250	7 AC106795.1
3.36E-118	0.711454868	0.705	0.388	1.08E-113	7 PHACTR2
9.23E-126	0.710887685	0.884	0.563	2.97E-121	7 ASAP2
3.46E-138	0.710811524	0.982	0.784	1.11E-133	7 RBPMS
1.25E-276	0.706867957	0.62	0.174	4.00E-272	7 PWRN1

2.23E-119	0.705644008	0.839	0.501	7.17E-115	7 RHOBTB3
8.23E-138	0.70335226	0.751	0.384	2.64E-133	7 TBC1D9
8.23E-128	0.702754533	0.876	0.601	2.64E-123	7 CHCHD3
1.29E-68	0.70146207	0.431	0.218	4.13E-64	7 SQSTM1
4.75E-84	0.69788568	0.765	0.483	1.53E-79	7 MLLT3
6.15E-106	0.692313925	0.771	0.463	1.98E-101	7 SNRK
1.84E-90	0.690572647	0.519	0.261	5.92E-86	7 SLC49A4
7.36E-185	0.688959394	0.412	0.118	2.36E-180	7 RASD1
4.27E-139	0.687668575	0.982	0.788	1.37E-134	7 SIK3
1.31E-143	0.684762518	0.701	0.329	4.20E-139	7 SLC38A1
8.86E-71	0.683988316	0.874	0.639	2.84E-66	7 NFIB
1.95E-115	0.682171017	0.914	0.669	6.27E-111	7 EIF4G3
2.58E-97	0.681714917	0.53	0.262	8.30E-93	7 GAB2
6.45E-143	0.68142268	0.806	0.451	2.07E-138	7 LMBR1
6.86E-100	0.678131005	0.718	0.412	2.20E-95	7 MYH9
2.79E-39	0.677381081	0.712	0.569	8.95E-35	7 RALYL
7.29E-84	0.674237914	0.806	0.479	2.34E-79	7 NOS1AP
1.97E-201	0.673992507	0.524	0.162	6.34E-197	7 AC011586.1
1.84E-84	0.671503311	0.821	0.557	5.90E-80	7 ZNF704
4.16E-137	0.671113544	0.799	0.448	1.34E-132	7 SREBF2
7.11E-123	0.669824645	0.676	0.339	2.28E-118	7 ELOVL7
1.45E-54	0.667469906	0.324	0.154	4.64E-50	7 PAPSS2
8.64E-111	0.666787931	0.536	0.246	2.77E-106	7 CTNNA1
1.37E-104	0.666093998	0.785	0.47	4.39E-100	7 CLIP1
2.68E-125	0.664283538	0.944	0.679	8.62E-121	7 UBE2H
0	0.662252709	0.356	0.039	0	7 ZC3H12A
4.09E-202	0.660141274	0.614	0.23	1.31E-197	7 CCDC12
6.55E-23	0.655237056	0.448	0.321	2.10E-18	7 COL4A1
2.08E-201	0.654543646	0.555	0.19	6.67E-197	7 PPARC
5.27E-73	0.652212414	0.574	0.327	1.69E-68	7 RYBP
1.56E-131	0.651755494	0.772	0.436	5.01E-127	7 ZNF516
1.11E-181	0.650086538	0.427	0.129	3.58E-177	7 AC093512.2
2.82E-120	0.648117924	0.663	0.325	9.05E-116	7 BLNK
2.90E-101	0.645081085	0.753	0.45	9.30E-97	7 GPC5
1.60E-201	0.644124893	0.695	0.265	5.15E-197	7 SCN3A
1.33E-113	0.643822542	0.948	0.703	4.26E-109	7 BRAF
2.17E-120	0.643647256	0.687	0.36	6.97E-116	7 VAV2
8.04E-144	0.643038446	0.39	0.125	2.58E-139	7 FLNA
3.98E-76	0.642286224	0.869	0.604	1.28E-71	7 RBMS1
6.48E-97	0.640617044	0.541	0.269	2.08E-92	7 ANKRD13A
5.80E-94	0.640429003	0.956	0.772	1.86E-89	7 SETBP1
1.05E-102	0.64016839	0.847	0.557	3.37E-98	7 SGMS1
1.55E-100	0.639576616	0.609	0.316	4.98E-96	7 PISD
1.83E-65	0.639010644	0.529	0.302	5.88E-61	7 KIZ
8.94E-98	0.638999394	0.79	0.496	2.87E-93	7 CHD2
2.71E-102	0.637371013	0.661	0.358	8.71E-98	7 ITGB1
1.12E-130	0.635838833	0.754	0.426	3.60E-126	7 ABI2
5.57E-87	0.631410876	0.802	0.494	1.79E-82	7 EPB41L3
1.19E-120	0.627428216	0.798	0.469	3.83E-116	7 MTX2
2.05E-120	0.625528519	0.617	0.304	6.59E-116	7 RAB11FIP2
5.65E-170	0.622407445	0.29	0.068	1.81E-165	7 KLF10

1.79E-133	0.619048596	0.636	0.307	5.73E-129	7 ARHGAP17
1.83E-149	0.618881555	0.475	0.177	5.86E-145	7 AMD1
6.58E-200	0.617906642	0.382	0.1	2.11E-195	7 ZNF430
6.53E-115	0.614694802	0.945	0.72	2.10E-110	7 ANKRD17
2.30E-98	0.609012589	0.619	0.324	7.40E-94	7 CREM
5.57E-79	0.607776189	0.403	0.185	1.79E-74	7 SEMA4B
5.65E-155	0.607086586	0.473	0.168	1.81E-150	7 TES
2.61E-73	0.606682932	0.756	0.498	8.37E-69	7 GAB1
7.60E-79	0.605644096	0.966	0.824	2.44E-74	7 BICC1
1.55E-127	0.605318808	0.851	0.491	4.97E-123	7 ARHGEF3
1.22E-122	0.604770637	0.774	0.413	3.91E-118	7 SCNN1A
4.46E-153	0.602743386	0.396	0.125	1.43E-148	7 MAP2K3
1.07E-98	0.602310441	0.909	0.637	3.44E-94	7 ARHGEF12
4.32E-109	0.602004705	0.863	0.539	1.39E-104	7 TPST1
1.24E-91	0.601385603	0.883	0.621	4.00E-87	7 SCMH1
7.70E-115	0.600559707	0.711	0.363	2.47E-110	7 FRY
6.10E-103	0.599063781	0.759	0.443	1.96E-98	7 PCGF5
2.97E-139	0.598671013	0.588	0.257	9.54E-135	7 LINC00472
6.65E-166	0.593920405	0.749	0.36	2.14E-161	7 ATP13A3
7.81E-89	0.593355863	0.863	0.58	2.51E-84	7 MITF
4.41E-83	0.593182776	0.772	0.507	1.42E-78	7 ADAM10
5.26E-126	0.592543283	1	0.781	1.69E-121	7 CCSER1
1.45E-56	0.59036279	0.599	0.367	4.65E-52	7 CLCN3
1.14E-113	0.586702975	0.861	0.545	3.67E-109	7 KIF13B
2.19E-118	0.586060893	0.557	0.246	7.02E-114	7 AC022414.1
2.04E-114	0.586017475	0.958	0.677	6.57E-110	7 AGLB4
4.75E-233	0.582461132	0.338	0.07	1.52E-228	7 TRIB1
1.60E-65	0.581282413	0.906	0.689	5.15E-61	7 TEAD1
9.63E-101	0.58084903	0.81	0.492	3.09E-96	7 TANC2
2.44E-102	0.5799207	0.489	0.218	7.84E-98	7 EGLN3
3.19E-115	0.576366127	0.536	0.242	1.02E-110	7 ELOVL5
2.23E-67	0.575430931	0.837	0.585	7.17E-63	7 TCF7L2
1.35E-133	0.575151307	0.298	0.085	4.32E-129	7 TGIF1
7.25E-104	0.57435446	0.806	0.503	2.33E-99	7 MAP2K4
1.10E-128	0.574328255	0.493	0.189	3.52E-124	7 RERGL
1.75E-131	0.571682065	0.595	0.267	5.62E-127	7 PKM
2.91E-98	0.569409893	0.919	0.66	9.36E-94	7 AAK1
5.07E-74	0.56913544	0.697	0.428	1.63E-69	7 SEPTIN11
1.57E-222	0.567903354	0.331	0.069	5.06E-218	7 SQLE
1.18E-88	0.567716013	0.698	0.408	3.78E-84	7 STXBP4
4.35E-58	0.567564098	0.489	0.274	1.40E-53	7 DNMBP
1.73E-92	0.566874342	0.967	0.768	5.56E-88	7 FNDC3B
5.06E-93	0.566701313	0.774	0.48	1.63E-88	7 ATF6
1.52E-108	0.566200968	0.816	0.503	4.90E-104	7 DNAJC1
2.20E-127	0.565983445	0.748	0.388	7.06E-123	7 VPS37B
2.20E-115	0.565337411	0.379	0.134	7.06E-111	7 LHX1
1.49E-63	0.564772621	0.351	0.162	4.77E-59	7 COL4A6
1.73E-104	0.561312887	0.516	0.24	5.54E-100	7 HABP4
3.15E-73	0.560758004	0.828	0.583	1.01E-68	7 DAB1
2.24E-86	0.559414963	0.764	0.474	7.20E-82	7 MAN2A1
4.24E-87	0.558829098	0.49	0.247	1.36E-82	7 PRMT3

3.79E-92	0.558771108	0.253	0.08	1.22E-87	7 AC026167.1
1.97E-89	0.558151203	0.73	0.404	6.32E-85	7 COL4A5
5.64E-99	0.5566323	0.497	0.227	1.81E-94	7 LIN7A
4.29E-71	0.556223933	0.732	0.473	1.38E-66	7 RAI14
4.52E-53	0.556049279	0.649	0.407	1.45E-48	7 BACH2
5.17E-103	0.554625229	0.81	0.491	1.66E-98	7 ABCD3
5.89E-115	0.550346897	0.826	0.506	1.89E-110	7 NCKAP1
1.27E-66	0.550300837	0.49	0.258	4.07E-62	7 SH3GL2
1.97E-84	0.550068385	0.65	0.361	6.31E-80	7 BCAR3
7.91E-55	0.549602317	0.759	0.525	2.54E-50	7 MRPL33
6.72E-93	0.547110905	0.944	0.704	2.16E-88	7 ADK
3.98E-96	0.546888353	0.524	0.255	1.28E-91	7 ADAM9
3.84E-49	0.54610899	0.682	0.462	1.23E-44	7 IGF2BP2
2.03E-69	0.54515817	0.83	0.584	6.52E-65	7 AHCYL2
9.16E-152	0.543660145	0.433	0.147	2.94E-147	7 CXXC5
3.20E-85	0.540078877	0.872	0.602	1.03E-80	7 SIPA1L1
2.85E-79	0.540061951	0.443	0.207	9.15E-75	7 TFRC
3.62E-120	0.53989925	0.627	0.29	1.16E-115	7 SUSD1
7.97E-49	0.537182923	0.778	0.537	2.56E-44	7 DAPK1
7.15E-155	0.537137776	0.37	0.111	2.30E-150	7 CSRP1
3.10E-137	0.535402209	0.52	0.207	9.94E-133	7 HK1
9.76E-63	0.533868815	0.841	0.6	3.13E-58	7 KLF12
7.75E-84	0.533015618	0.893	0.611	2.49E-79	7 ANKRD28
2.44E-152	0.530886078	0.466	0.159	7.82E-148	7 PLPP4
8.16E-62	0.529245431	0.395	0.196	2.62E-57	7 ATP2B4
3.37E-94	0.52895209	0.681	0.371	1.08E-89	7 CARMIL1
1.83E-95	0.528846654	0.857	0.548	5.88E-91	7 MAP7
9.34E-85	0.527922827	0.442	0.207	3.00E-80	7 STAM
1.93E-46	0.526531242	0.314	0.16	6.20E-42	7 H3-3B
5.57E-98	0.526447058	0.938	0.682	1.79E-93	7 TRAPPC9
4.44E-94	0.525175772	0.86	0.557	1.43E-89	7 FBXW11
3.30E-19	0.524257673	0.287	0.19	1.06E-14	7 MIR646HG
1.03E-82	0.523592783	0.982	0.871	3.32E-78	7 AL136164.2
4.25E-104	0.522410602	0.956	0.772	1.37E-99	7 KMT2C
3.04E-96	0.519270784	0.796	0.474	9.76E-92	7 MTUS1
9.53E-102	0.518620861	0.421	0.17	3.06E-97	7 HLF
4.18E-170	0.516923667	0.474	0.153	1.34E-165	7 NIPAL1
3.06E-183	0.516405426	0.451	0.137	9.81E-179	7 GYG2P1
8.28E-22	0.515942697	0.313	0.202	2.66E-17	7 SEMA3B
3.41E-95	0.514494392	0.678	0.378	1.10E-90	7 RNF149
1.94E-128	0.51218689	0.567	0.252	6.23E-124	7 PLEKHB2
1.59E-92	0.511465148	0.459	0.199	5.10E-88	7 REPS2
5.27E-120	0.510890508	0.879	0.448	1.69E-115	7 UTY
3.13E-157	0.510542946	0.43	0.137	1.01E-152	7 AMOTL1
1.64E-176	0.508768938	0.423	0.127	5.27E-172	7 PTP4A2
1.53E-146	0.508510218	0.831	0.426	4.92E-142	7 C11orf80
1.52E-131	0.508407903	0.48	0.188	4.89E-127	7 EPCAM
1.85E-112	0.507572416	0.468	0.194	5.95E-108	7 OPRM1
1.76E-83	0.507398901	0.857	0.585	5.66E-79	7 KTN1
9.32E-189	0.507141019	0.334	0.079	2.99E-184	7 MMP13
1.76E-84	0.506449034	0.891	0.633	5.64E-80	7 ARIH1

4.04E-100	0.505618941	0.752	0.427	1.30E-95	7 IQGAP1
1.42E-140	0.505170051	0.502	0.183	4.55E-136	7 LINC01788
5.79E-100	0.504645258	0.295	0.099	1.86E-95	7 DDIT3
8.25E-64	0.504544856	0.938	0.736	2.65E-59	7 ATXN1
7.33E-81	0.500444633	0.563	0.301	2.36E-76	7 PAK1
3.04E-120	0.499973776	0.496	0.208	9.76E-116	7 LRRC8B
1.48E-73	0.499224314	0.474	0.234	4.76E-69	7 CPVL
8.73E-75	0.49890924	0.938	0.739	2.80E-70	7 FBXL17
8.61E-83	0.498888005	0.921	0.709	2.77E-78	7 EXOC6B
2.79E-79	0.498300018	0.45	0.215	8.98E-75	7 TPD52L1
6.09E-61	0.498019889	0.676	0.431	1.96E-56	7 AC013394.1
2.31E-88	0.4975561	0.779	0.481	7.42E-84	7 DOCK7
2.27E-94	0.49740023	0.367	0.145	7.29E-90	7 ZFP36L2
1.88E-66	0.497289945	0.737	0.454	6.03E-62	7 FLNB
7.37E-84	0.494718315	0.773	0.489	2.37E-79	7 PPP2R5E
2.45E-65	0.493703883	0.712	0.433	7.86E-61	7 FAT1
4.26E-100	0.492689686	0.744	0.398	1.37E-95	7 FAM171A1
3.60E-87	0.492247802	0.497	0.247	1.16E-82	7 WDR43
8.19E-98	0.491420752	0.589	0.302	2.63E-93	7 AAGAB
1.05E-95	0.49119486	0.92	0.595	3.38E-91	7 TRPM3
9.41E-66	0.491119733	0.481	0.25	3.02E-61	7 PDE3B
8.68E-75	0.488549935	0.56	0.305	2.79E-70	7 RPS6KA6
1.48E-123	0.487688017	0.511	0.204	4.76E-119	7 B4GALNT3
4.81E-120	0.487415167	0.521	0.223	1.55E-115	7 RAI1
2.54E-145	0.487385058	0.371	0.11	8.16E-141	7 SLC9A4
3.50E-59	0.487013092	0.826	0.596	1.12E-54	7 AP000311.1
8.54E-120	0.486909189	0.341	0.114	2.74E-115	7 TBC1D7
1.94E-214	0.485820334	0.349	0.078	6.23E-210	7 AC138965.1
3.31E-280	0.485166026	0.262	0.035	1.06E-275	7 RASSF9
1.70E-72	0.483938713	0.677	0.407	5.47E-68	7 RASA2
1.54E-62	0.482139639	0.821	0.562	4.95E-58	7 FAM160A1
6.06E-90	0.481501226	0.72	0.422	1.95E-85	7 RAB6A
9.72E-77	0.481206415	0.908	0.663	3.12E-72	7 DYRK1A
3.21E-86	0.481119516	0.98	0.813	1.03E-81	7 ARID1B
1.99E-149	0.480157749	0.445	0.151	6.38E-145	7 RASGRP1
3.86E-97	0.478149058	0.763	0.452	1.24E-92	7 RNGTT
1.77E-68	0.477132068	0.982	0.86	5.68E-64	7 ANK3
7.70E-78	0.477070232	0.704	0.399	2.47E-73	7 ARHGEF38
1.83E-88	0.476250488	0.847	0.524	5.87E-84	7 STAT3
2.88E-13	0.476027832	0.736	0.598	9.23E-09	7 IGFBP7
3.95E-90	0.475686649	0.861	0.57	1.27E-85	7 NPEPPS
5.05E-30	0.475381989	0.744	0.584	1.62E-25	7 PDE7B
2.07E-103	0.475265535	0.567	0.274	6.66E-99	7 FP236241.1
6.82E-73	0.473780201	0.918	0.681	2.19E-68	7 GNAQ
9.52E-56	0.47377298	0.655	0.402	3.06E-51	7 EZR
9.39E-65	0.473344695	0.849	0.574	3.02E-60	7 TRHDE
5.50E-111	0.473268869	0.447	0.183	1.77E-106	7 FDX1
2.92E-60	0.472496969	0.946	0.777	9.37E-56	7 BCAS3
1.08E-84	0.472372376	0.472	0.22	3.46E-80	7 ARSJ
1.77E-38	0.47192359	0.357	0.199	5.70E-34	7 PXYLP1
2.02E-143	0.471740747	0.522	0.204	6.50E-139	7 WDR1

3.08E-85	0.471690256	0.785	0.485	9.90E-81	7 PSME4
6.15E-123	0.471168993	0.301	0.087	1.98E-118	7 HES1
1.56E-104	0.470974121	0.661	0.316	5.02E-100	7 AC040174.1
2.08E-118	0.470230198	0.641	0.303	6.67E-114	7 DUSP1
1.41E-100	0.469947458	0.721	0.411	4.52E-96	7 NUP98
1.16E-90	0.469808188	0.744	0.434	3.74E-86	7 AGFG1
8.71E-73	0.469595862	0.463	0.236	2.80E-68	7 SCARB2
2.23E-55	0.468620189	0.878	0.654	7.16E-51	7 PTPN13
9.27E-62	0.46803499	0.571	0.335	2.98E-57	7 TRIM24
1.98E-76	0.468011231	0.867	0.59	6.36E-72	7 CAMTA1
6.71E-71	0.467331445	0.769	0.508	2.15E-66	7 FBXW7
1.78E-60	0.466941718	0.413	0.215	5.73E-56	7 LRRC1
5.88E-74	0.466908377	0.671	0.4	1.89E-69	7 MPRIP
2.87E-112	0.466508237	0.6	0.263	9.21E-108	7 CACNB4
2.75E-86	0.464219375	0.906	0.618	8.83E-82	7 TBC1D1
2.34E-131	0.463920864	0.383	0.125	7.50E-127	7 AL512506.3
5.60E-101	0.46377069	0.644	0.313	1.80E-96	7 ZNF98
7.68E-55	0.462258958	0.598	0.369	2.47E-50	7 ANO6
1.79E-61	0.461725634	0.915	0.698	5.73E-57	7 MAPK8
1.55E-72	0.461628306	0.961	0.782	4.99E-68	7 PTK2
9.05E-109	0.461310314	0.592	0.285	2.91E-104	7 ARFGAP3
1.50E-66	0.461084926	0.802	0.551	4.82E-62	7 UVRAG
3.38E-55	0.459335195	0.722	0.478	1.08E-50	7 FAM135A
3.05E-196	0.459317039	0.36	0.088	9.79E-192	7 BHLHE40-AS1
4.80E-88	0.458530438	0.471	0.218	1.54E-83	7 BAIAP2L1
8.47E-84	0.458266019	0.631	0.352	2.72E-79	7 UBE2G1
2.61E-99	0.457499584	0.686	0.348	8.39E-95	7 GRHL2
1.07E-111	0.457483006	0.38	0.139	3.44E-107	7 EHD4
7.25E-70	0.456889574	0.713	0.439	2.33E-65	7 YWHAZ
1.55E-82	0.456824222	0.788	0.443	4.97E-78	7 STK39
4.84E-90	0.456543687	0.763	0.453	1.55E-85	7 CDC42BPB
2.33E-64	0.456349207	0.622	0.376	7.48E-60	7 MINDY2
3.85E-84	0.456031789	0.806	0.499	1.24E-79	7 OGT
4.03E-48	0.455984094	0.25	0.11	1.29E-43	7 AL355499.1
5.98E-64	0.454003734	0.834	0.566	1.92E-59	7 STRN3
2.03E-140	0.453728642	0.505	0.19	6.51E-136	7 SLC25A29
6.80E-124	0.453279432	0.436	0.164	2.18E-119	7 DOP1B
1.01E-69	0.451406334	0.837	0.571	3.23E-65	7 RAB10
5.20E-51	0.449706323	0.863	0.624	1.67E-46	7 AL138752.2
1.79E-62	0.449159208	0.551	0.321	5.74E-58	7 SLC10A7
1.93E-70	0.448920659	0.751	0.477	6.19E-66	7 SNX9
8.49E-71	0.44880838	0.785	0.504	2.73E-66	7 AC068205.2
5.47E-87	0.447755535	0.517	0.244	1.76E-82	7 MTHFD1L
1.37E-87	0.44759825	0.444	0.203	4.39E-83	7 ENO1
1.48E-130	0.447102963	0.425	0.154	4.77E-126	7 MIR22HG
1.28E-43	0.445969637	0.476	0.287	4.12E-39	7 SLC19A2
6.57E-56	0.444737728	0.728	0.482	2.11E-51	7 FERMT2
6.75E-68	0.443873035	0.831	0.56	2.17E-63	7 SSH2
4.77E-79	0.443153263	0.569	0.305	1.53E-74	7 RHEB
4.40E-28	0.440829333	0.272	0.155	1.41E-23	7 CHMP1B2P
5.68E-77	0.440778662	0.972	0.753	1.83E-72	7 PPP2R3A

1.55E-30	0.439491742	0.697	0.488	4.97E-26	7 PAWR
9.40E-268	0.438191669	0.272	0.04	3.02E-263	7 NAB2
2.99E-69	0.437936824	0.573	0.309	9.59E-65	7 MACC1
8.46E-72	0.437850684	0.815	0.531	2.72E-67	7 CBFA2T2
3.85E-66	0.43730678	0.631	0.37	1.24E-61	7 AC004160.1
3.04E-65	0.436533181	0.806	0.535	9.76E-61	7 ROCK2
8.57E-91	0.435907182	0.657	0.354	2.75E-86	7 PITPNB
3.77E-77	0.434183111	0.769	0.48	1.21E-72	7 GNB1
2.23E-77	0.433554155	0.65	0.373	7.17E-73	7 CBFB
1.32E-58	0.431634896	0.557	0.317	4.24E-54	7 Tmprss2
8.91E-68	0.431426503	0.785	0.51	2.86E-63	7 OPHN1
4.91E-153	0.430980268	0.379	0.111	1.58E-148	7 AFAP1L2
2.20E-61	0.430100514	0.588	0.345	7.05E-57	7 BCR
1.22E-81	0.429964626	0.847	0.555	3.92E-77	7 UBE2K
2.48E-70	0.428177307	0.829	0.558	7.98E-66	7 TLK1
3.91E-60	0.427720822	0.783	0.526	1.26E-55	7 ZHX2
2.97E-94	0.427339801	0.806	0.477	9.54E-90	7 SDHAP1
5.54E-28	0.427288366	0.839	0.656	1.78E-23	7 PAX8-AS1
7.83E-75	0.426283808	0.762	0.478	2.51E-70	7 PPP2R2A
6.74E-84	0.424629479	0.665	0.373	2.17E-79	7 CAAP1
8.93E-46	0.421588078	0.657	0.425	2.87E-41	7 KCNJ3
9.79E-65	0.420705373	0.409	0.196	3.14E-60	7 FSTL4
8.98E-91	0.41947514	0.27	0.09	2.88E-86	7 KRT8
9.75E-109	0.419135277	0.287	0.089	3.13E-104	7 AC007255.1
4.89E-92	0.418004291	0.461	0.207	1.57E-87	7 NF2
1.44E-79	0.417868115	0.788	0.472	4.63E-75	7 SLIT2
2.79E-100	0.41784949	0.361	0.133	8.96E-96	7 LIPH
1.13E-92	0.417240708	0.626	0.328	3.64E-88	7 AGO2
1.11E-64	0.416182185	0.602	0.345	3.55E-60	7 EMX2OS
1.75E-66	0.415522547	0.824	0.567	5.63E-62	7 NUTM2B-AS1
1.83E-157	0.415122056	0.256	0.056	5.88E-153	7 RARA
3.80E-65	0.414113821	0.761	0.49	1.22E-60	7 PTPN3
2.28E-88	0.412581226	0.749	0.435	7.32E-84	7 CPSF6
3.11E-49	0.411868063	0.876	0.64	9.99E-45	7 PTPRK
2.00E-75	0.410528885	0.913	0.642	6.44E-71	7 PRKCE
1.02E-55	0.410192726	0.915	0.705	3.26E-51	7 NCOA2
2.75E-64	0.409203304	0.612	0.361	8.83E-60	7 USP12
4.29E-76	0.407661772	0.74	0.44	1.38E-71	7 ARHGEF10L
4.76E-64	0.407240397	0.533	0.298	1.53E-59	7 DENND5A
5.21E-45	0.407093119	0.671	0.451	1.67E-40	7 SNX24
2.75E-83	0.40600674	0.302	0.111	8.84E-79	7 TIMP3
4.73E-75	0.405098446	0.781	0.483	1.52E-70	7 ETNK1
2.40E-73	0.404564043	0.74	0.455	7.70E-69	7 AC022826.2
2.49E-94	0.403549979	0.533	0.24	8.01E-90	7 AC068547.1
3.89E-25	0.403235173	0.707	0.54	1.25E-20	7 BCL2
2.02E-67	0.402849917	0.865	0.579	6.48E-63	7 ANKRD10
3.76E-170	0.40039218	0.461	0.141	1.21E-165	7 TBX2
2.21E-77	0.399573219	0.652	0.379	7.10E-73	7 RLF
4.60E-104	0.399488432	0.349	0.125	1.48E-99	7 ZNF100
2.05E-70	0.399464129	0.701	0.424	6.60E-66	7 RAP1A
4.83E-71	0.399410368	0.613	0.345	1.55E-66	7 ZNF10

4.16E-109	0.398990328	1	0.961	1.34E-104	7 NEAT1
3.89E-71	0.398437247	0.728	0.451	1.25E-66	7 SEC24B
2.38E-103	0.398275115	0.661	0.328	7.64E-99	7 MROH7
5.72E-147	0.398262551	0.283	0.07	1.84E-142	7 AC020916.1
4.44E-52	0.397042413	0.963	0.775	1.42E-47	7 FGD4
2.32E-63	0.396925211	0.336	0.147	7.44E-59	7 EGR1
1.12E-70	0.396652843	0.635	0.371	3.61E-66	7 IBTK
2.54E-82	0.3962694	0.603	0.325	8.16E-78	7 GSPT1
1.65E-20	0.394422986	0.523	0.389	5.28E-16	7 FGF13
6.97E-82	0.394370849	0.732	0.431	2.24E-77	7 AC132008.2
9.78E-70	0.393325528	0.434	0.212	3.14E-65	7 PDE5A
1.62E-55	0.393179454	0.757	0.515	5.20E-51	7 PIP5K1A
3.56E-86	0.392981722	0.505	0.24	1.14E-81	7 ATP9A
3.39E-81	0.392955555	0.618	0.334	1.09E-76	7 CRTC3
2.51E-176	0.392789662	1	1	8.05E-172	7 MALAT1
1.04E-42	0.392786167	0.645	0.426	3.33E-38	7 ARHGAP21
6.32E-54	0.392172656	0.874	0.642	2.03E-49	7 ZMYM2
8.63E-74	0.391944362	0.456	0.218	2.77E-69	7 RNF24
0	0.387196465	0.269	0.022	0	7 LINC01099
1.39E-68	0.386976712	0.816	0.537	4.47E-64	7 SND1
1.88E-65	0.386401302	0.426	0.206	6.03E-61	7 FAM83B
6.88E-125	0.385446503	0.376	0.126	2.21E-120	7 ARSDP1
1.91E-53	0.385381169	0.914	0.722	6.12E-49	7 STAG1
1.48E-59	0.385321095	0.821	0.559	4.74E-55	7 LARP4B
1.67E-68	0.384469708	0.613	0.351	5.35E-64	7 CNN3
1.94E-61	0.384147262	0.798	0.538	6.23E-57	7 NUTM2A-AS1
1.36E-108	0.384066084	0.909	0.554	4.35E-104	7 NEBL
2.14E-66	0.383630607	0.619	0.358	6.88E-62	7 ZBTB38
2.20E-75	0.38302019	0.536	0.271	7.08E-71	7 PLEKHA2
8.01E-120	0.383007017	0.366	0.125	2.57E-115	7 CYP51A1
1.54E-49	0.382886316	0.295	0.14	4.96E-45	7 PLS1
3.99E-64	0.382190876	0.891	0.63	1.28E-59	7 CSNK1A1
1.47E-69	0.382142472	0.702	0.395	4.72E-65	7 TTTY14
5.55E-49	0.380752426	0.564	0.343	1.78E-44	7 FBXL2
5.84E-63	0.380302789	0.913	0.69	1.88E-58	7 PPP6R3
7.30E-67	0.380100514	0.594	0.339	2.34E-62	7 ADIPOR2
1.46E-57	0.380080256	0.37	0.184	4.70E-53	7 FDFT1
2.96E-92	0.380024993	0.481	0.209	9.51E-88	7 NR4A1
6.39E-102	0.380023887	0.462	0.2	2.05E-97	7 RNF114
3.99E-58	0.379938638	0.869	0.622	1.28E-53	7 MARK3
1.67E-52	0.379112214	0.806	0.56	5.35E-48	7 SPPL3
4.90E-58	0.378423056	0.775	0.519	1.57E-53	7 UBAC2
6.66E-74	0.375484608	0.662	0.385	2.14E-69	7 PSMD1
1.36E-80	0.375297345	0.544	0.276	4.37E-76	7 AC139769.1
1.13E-161	0.374057936	0.313	0.079	3.64E-157	7 RAB11FIP5
1.64E-124	0.373988301	0.536	0.222	5.27E-120	7 MAP1LC3A
1.29E-50	0.373686617	0.522	0.307	4.13E-46	7 RPS6KA3
3.97E-72	0.37359857	0.535	0.277	1.28E-67	7 ADAM22
3.16E-72	0.372916306	0.651	0.367	1.02E-67	7 MYO5B
3.84E-50	0.372341705	0.62	0.385	1.23E-45	7 INTS6
4.69E-66	0.372074744	0.635	0.371	1.51E-61	7 MED27

1.21E-55	0.371160411	0.298	0.133	3.90E-51	7 GPR132
2.61E-61	0.37034271	0.774	0.505	8.37E-57	7 PSPC1
1.56E-88	0.369846699	0.494	0.23	5.01E-84	7 NPC1
4.24E-100	0.369827196	0.445	0.19	1.36E-95	7 RPE
3.20E-99	0.369150076	0.36	0.13	1.03E-94	7 RHCG
1.15E-85	0.36851801	0.543	0.274	3.69E-81	7 ARPC2
2.04E-20	0.368376013	0.355	0.24	6.54E-16	7 TDRP
5.07E-96	0.368292452	0.322	0.113	1.63E-91	7 SLC6A6
7.53E-12	0.36826974	0.308	0.226	2.42E-07	7 SOBP
3.48E-79	0.368167081	0.501	0.247	1.12E-74	7 IPO7
1.12E-54	0.367341952	0.851	0.609	3.59E-50	7 WAC
1.01E-75	0.3672531	0.436	0.202	3.23E-71	7 MYRFL
1.22E-74	0.366925424	0.337	0.142	3.93E-70	7 ZNF697
1.15E-53	0.36663647	0.85	0.607	3.69E-49	7 AHI1
8.98E-48	0.366205797	0.858	0.674	2.89E-43	7 WNK1
8.31E-50	0.365671522	0.735	0.49	2.67E-45	7 CCSER2
3.09E-57	0.36552493	0.804	0.533	9.93E-53	7 SLC25A13
1.09E-56	0.36521842	0.92	0.699	3.49E-52	7 ERC1
3.35E-49	0.36429724	0.765	0.516	1.07E-44	7 ARHGAP32
8.79E-60	0.363622559	0.691	0.432	2.82E-55	7 OLA1
8.81E-133	0.36360652	0.672	0.274	2.83E-128	7 TMEM52B
1.66E-73	0.363569065	0.763	0.459	5.33E-69	7 HOXD3
4.71E-61	0.362939074	0.728	0.467	1.51E-56	7 MARCHF7
2.71E-91	0.362934209	0.413	0.177	8.70E-87	7 INSIG2
5.63E-132	0.362222329	0.505	0.183	1.81E-127	7 GATA3
3.06E-152	0.361855713	0.31	0.08	9.83E-148	7 AC004594.1
2.47E-66	0.361697855	0.545	0.299	7.94E-62	7 NDFIP2
6.58E-85	0.361044326	0.264	0.09	2.11E-80	7 PPL
4.97E-81	0.360647141	0.55	0.281	1.60E-76	7 CMC2
5.06E-87	0.360566321	0.365	0.149	1.62E-82	7 MBIP
4.81E-06	0.360314541	0.511	0.459	0.154583685	7 TXNIP
2.00E-23	0.360091644	0.365	0.235	6.42E-19	7 LINGO2
8.75E-51	0.359482407	0.793	0.537	2.81E-46	7 PRICKLE2
2.62E-82	0.359395023	0.386	0.162	8.42E-78	7 LHFPL3-AS2
2.72E-59	0.359343813	0.843	0.578	8.74E-55	7 RAPGEF6
1.46E-75	0.359322807	0.451	0.213	4.69E-71	7 MAL2
3.51E-62	0.356595292	0.874	0.616	1.13E-57	7 VPS13D
1.13E-66	0.356437157	0.53	0.286	3.62E-62	7 KDM5B
5.62E-56	0.356020663	0.854	0.6	1.81E-51	7 TRIP12
1.69E-89	0.35556107	0.428	0.184	5.44E-85	7 GSR
1.17E-71	0.355433732	0.627	0.34	3.76E-67	7 SFXN5
1.55E-51	0.35526641	0.797	0.542	4.98E-47	7 SLMAP
6.65E-66	0.354876125	0.6	0.344	2.14E-61	7 PRKCI
7.60E-61	0.354220505	0.655	0.399	2.44E-56	7 NDUFS4
1.92E-125	0.354203731	0.479	0.185	6.17E-121	7 DPY19L2P1
2.36E-88	0.354048392	0.391	0.161	7.60E-84	7 AL136115.2
1.34E-148	0.353874534	0.285	0.07	4.29E-144	7 MOCOS
4.95E-68	0.353700227	0.64	0.371	1.59E-63	7 PTPN1
7.77E-113	0.352960796	0.319	0.102	2.49E-108	7 CWH43
1.67E-46	0.352900543	0.894	0.657	5.38E-42	7 SRPK2
3.86E-49	0.352574562	0.91	0.67	1.24E-44	7 HNRNPC

1.38E-68	0.352208148	0.598	0.334	4.44E-64	7 ACVR1B
6.19E-67	0.351956976	0.547	0.3	1.99E-62	7 CAPZA2
4.37E-18	0.351807459	0.259	0.161	1.40E-13	7 SGCD
2.07E-47	0.35125771	0.685	0.439	6.64E-43	7 PLEKHA1
3.60E-66	0.350842299	0.581	0.328	1.16E-61	7 NUDT3
2.59E-59	0.350841159	0.546	0.304	8.32E-55	7 MYOF
1.43E-47	0.349159484	0.512	0.306	4.59E-43	7 BCL9
7.69E-65	0.348908664	0.718	0.445	2.47E-60	7 CLTC
3.22E-62	0.347823541	0.598	0.347	1.04E-57	7 NUP153
9.21E-66	0.347586277	0.317	0.135	2.96E-61	7 ANXA3
1.37E-66	0.34746149	0.416	0.2	4.41E-62	7 CYTH3
1.09E-76	0.346941762	0.291	0.111	3.49E-72	7 SMAD7
1.09E-56	0.346736186	0.678	0.432	3.50E-52	7 TAB2
1.25E-50	0.345877112	0.754	0.5	4.02E-46	7 DENND1B
3.04E-68	0.345569402	0.581	0.326	9.76E-64	7 DYNC1I2
1.62E-59	0.344483151	0.539	0.301	5.20E-55	7 MICU3
3.45E-62	0.342972826	0.742	0.471	1.11E-57	7 XRCC5
1.28E-139	0.342762707	0.282	0.071	4.11E-135	7 TBX2-AS1
1.11E-64	0.3424379	0.387	0.185	3.57E-60	7 CCNYL1
1.17E-38	0.34225394	0.787	0.569	3.75E-34	7 SUPT3H
3.11E-65	0.342017684	0.65	0.375	9.97E-61	7 HNF1B
7.81E-22	0.339254679	0.723	0.558	2.51E-17	7 PAM
2.69E-40	0.339151664	0.668	0.45	8.64E-36	7 JAK1
3.60E-70	0.338564475	0.741	0.427	1.16E-65	7 KCNJ16
5.96E-59	0.338334452	0.539	0.306	1.91E-54	7 ERMP1
2.26E-57	0.337653181	0.624	0.376	7.24E-53	7 OXSR1
5.06E-11	0.336705442	0.353	0.254	1.63E-06	7 MGLL
1.18E-97	0.336381218	0.326	0.116	3.78E-93	7 BTG3
2.51E-32	0.335447792	0.889	0.677	8.07E-28	7 TRIO
1.42E-57	0.335306974	0.672	0.417	4.55E-53	7 ATP11B
3.43E-49	0.33449259	0.987	0.87	1.10E-44	7 LPP
3.09E-46	0.334479176	0.826	0.587	9.91E-42	7 RBFOX2
1.95E-45	0.334384971	0.92	0.704	6.27E-41	7 CDKAL1
2.92E-84	0.334055412	0.328	0.124	9.37E-80	7 JUNB
1.04E-60	0.332953573	0.59	0.346	3.35E-56	7 MAP3K7
2.45E-71	0.332532045	0.484	0.243	7.86E-67	7 MAPK6
1.44E-63	0.33239432	0.704	0.429	4.63E-59	7 UBR4
3.95E-31	0.330037197	0.46	0.288	1.27E-26	7 MAL
1.36E-51	0.329881594	0.878	0.638	4.38E-47	7 ARFGEF1
2.74E-58	0.329703258	0.355	0.168	8.81E-54	7 FAM169A
6.50E-69	0.329025685	0.729	0.44	2.09E-64	7 AP1G1
8.78E-69	0.328901826	0.626	0.354	2.82E-64	7 NPTN
1.30E-18	0.328627123	0.816	0.658	4.16E-14	7 TRPS1
2.96E-09	0.328509913	0.536	0.419	9.49E-05	7 PDK4
1.23E-76	0.328197737	0.514	0.258	3.94E-72	7 KPNB1
3.64E-61	0.327929964	0.701	0.42	1.17E-56	7 CMTM4
4.23E-65	0.327077427	0.613	0.353	1.36E-60	7 KPNA4
6.28E-54	0.326959228	0.872	0.614	2.02E-49	7 PAFAH1B1
3.02E-53	0.326628845	0.821	0.564	9.69E-49	7 AFF4
1.43E-77	0.325854371	0.49	0.243	4.58E-73	7 AC233699.1
7.88E-46	0.325675464	0.929	0.715	2.53E-41	7 NF1

9.38E-68	0.325659895	0.998	0.875	3.01E-63	7 ESRRG
3.17E-52	0.325463223	0.549	0.324	1.02E-47	7 ARL8B
1.24E-40	0.325442454	0.518	0.326	3.98E-36	7 ACVR2A
8.60E-30	0.32521802	0.694	0.482	2.76E-25	7 MFHAS1
1.81E-53	0.325104177	0.764	0.512	5.80E-49	7 CUL3
2.08E-59	0.324626399	0.443	0.232	6.69E-55	7 KRAS
5.13E-17	0.323101119	0.322	0.211	1.65E-12	7 GPR137B
3.19E-27	0.32286057	0.438	0.285	1.03E-22	7 LDHB
1.07E-55	0.322652972	0.598	0.362	3.45E-51	7 KCMF1
5.52E-35	0.322559162	0.642	0.44	1.77E-30	7 MTMR10
5.55E-61	0.322507168	0.712	0.442	1.78E-56	7 CNOT1
3.93E-62	0.321753295	0.392	0.191	1.26E-57	7 CBL
1.91E-67	0.321166469	0.715	0.428	6.12E-63	7 SF1
7.79E-45	0.319535754	0.904	0.661	2.50E-40	7 PDE8A
7.01E-53	0.319118753	0.799	0.535	2.25E-48	7 HUWE1
5.79E-33	0.318818787	0.851	0.638	1.86E-28	7 FNBP1L
1.89E-58	0.318403297	0.732	0.464	6.05E-54	7 RAB7A
2.09E-46	0.318229932	0.464	0.266	6.72E-42	7 HERC3
1.53E-56	0.317741601	0.694	0.43	4.91E-52	7 MYH10
6.07E-57	0.317553244	0.65	0.397	1.95E-52	7 NAA15
1.96E-82	0.317147915	0.328	0.126	6.30E-78	7 LINC01226
3.91E-70	0.316662898	0.521	0.273	1.25E-65	7 USP14
1.06E-57	0.315990019	0.578	0.337	3.40E-53	7 ATAD1
4.28E-82	0.315846831	0.396	0.168	1.38E-77	7 KCNC4
2.04E-53	0.315739621	0.495	0.278	6.56E-49	7 KLHL2
1.30E-45	0.315417889	0.976	0.814	4.18E-41	7 PCCA
6.70E-56	0.315161544	0.643	0.391	2.15E-51	7 MYSM1
7.14E-64	0.315092309	0.296	0.121	2.29E-59	7 LINC01508
1.51E-50	0.313906559	0.692	0.447	4.85E-46	7 HOOK3
5.51E-70	0.313179745	0.463	0.231	1.77E-65	7 EIF4E
1.24E-62	0.312632732	0.329	0.145	3.99E-58	7 CA2
1.50E-85	0.312391017	0.252	0.083	4.83E-81	7 IDI1
5.85E-99	0.312131942	0.283	0.093	1.88E-94	7 OAZ1
1.20E-41	0.311922694	0.821	0.585	3.84E-37	7 LCOR
1.40E-124	0.311377404	0.331	0.103	4.50E-120	7 AC003688.1
3.85E-162	0.311200593	0.279	0.064	1.24E-157	7 THOC3
2.34E-196	0.311195822	0.284	0.056	7.53E-192	7 AC005746.2
1.48E-49	0.310997549	0.985	0.82	4.75E-45	7 MSI2
2.29E-26	0.310860894	0.397	0.257	7.34E-22	7 TENT4B
9.18E-81	0.310847455	0.414	0.184	2.95E-76	7 POMGNT1
5.85E-64	0.310730304	0.555	0.308	1.88E-59	7 UBA6
3.31E-60	0.310572337	0.533	0.294	1.06E-55	7 NAA50
5.74E-48	0.310471062	0.73	0.475	1.84E-43	7 PRKAA2
4.80E-61	0.31004984	0.411	0.203	1.54E-56	7 ABHD2
4.65E-57	0.309067995	0.315	0.142	1.49E-52	7 ST14
2.32E-49	0.308883801	0.914	0.676	7.44E-45	7 ASIP
5.66E-34	0.308208725	0.714	0.502	1.82E-29	7 NEK1
3.15E-33	0.307845462	0.741	0.523	1.01E-28	7 TLN2
2.81E-40	0.307585071	0.754	0.522	9.03E-36	7 ZFAND6
1.71E-22	0.307373026	0.678	0.506	5.50E-18	7 BCKDHB
3.43E-50	0.307194393	0.262	0.116	1.10E-45	7 BAG3

4.46E-58	0.306414788	0.702	0.442	1.43E-53	7 WAPL
2.82E-50	0.30579951	0.716	0.463	9.05E-46	7 FAM13B
8.06E-61	0.305523677	0.793	0.494	2.59E-56	7 RALGPS1
2.05E-64	0.304985641	0.505	0.266	6.59E-60	7 MAPKAPK2
3.66E-90	0.304737451	0.438	0.19	1.18E-85	7 LMNA
2.61E-48	0.304601955	0.603	0.372	8.38E-44	7 DDX10
1.55E-63	0.304513002	0.508	0.273	4.99E-59	7 SAMD4B
3.91E-61	0.304492113	0.571	0.317	1.25E-56	7 PTPN21
4.83E-40	0.304409113	0.749	0.522	1.55E-35	7 RIC1
2.34E-53	0.30348653	0.277	0.119	7.52E-49	7 RGS7
2.23E-28	0.303438829	0.697	0.501	7.17E-24	7 DENND5B
1.79E-42	0.303376256	0.754	0.519	5.75E-38	7 USP3
8.19E-49	0.303139552	0.624	0.383	2.63E-44	7 TAF3
5.40E-41	0.302737552	0.98	0.831	1.73E-36	7 PARD3
4.67E-57	0.302217518	0.411	0.209	1.50E-52	7 ZNRF1
3.69E-50	0.302039552	0.591	0.362	1.18E-45	7 TNPO3
2.99E-74	0.301428747	0.368	0.162	9.62E-70	7 RPN2
3.27E-45	0.300467965	0.649	0.415	1.05E-40	7 HLCS
3.20E-102	0.300119771	0.299	0.1	1.03E-97	7 LRRTM2
2.95E-44	0.299695348	0.847	0.604	9.49E-40	7 GPATCH8
7.03E-58	0.299204258	0.342	0.161	2.26E-53	7 UCHL3
1.49E-36	0.298970939	0.592	0.372	4.79E-32	7 IPCEF1
9.12E-93	0.298853336	0.348	0.132	2.93E-88	7 MED9
2.59E-57	0.29717466	0.508	0.28	8.32E-53	7 TMEM168
2.01E-65	0.296627496	0.452	0.223	6.47E-61	7 DCUN1D5
6.99E-42	0.296079637	0.362	0.191	2.25E-37	7 ITGA3
3.40E-57	0.2953613	0.826	0.506	1.09E-52	7 FREM1
7.35E-28	0.295150669	0.717	0.518	2.36E-23	7 JARID2
1.69E-72	0.294560052	0.362	0.157	5.43E-68	7 NAB1
4.63E-42	0.294500321	0.624	0.405	1.49E-37	7 MEMO1
1.14E-63	0.294463818	0.533	0.29	3.65E-59	7 SDHA
5.86E-54	0.294384444	0.549	0.322	1.88E-49	7 KPNA1
2.50E-28	0.294046975	0.949	0.805	8.01E-24	7 PRKN
1.22E-64	0.293611629	0.498	0.26	3.93E-60	7 MICOS10
6.22E-38	0.293345803	0.898	0.682	2.00E-33	7 RALGAPA1
2.16E-48	0.29232578	0.262	0.115	6.94E-44	7 SLC9A2
1.61E-56	0.292263097	0.433	0.226	5.17E-52	7 PGK1
9.90E-151	0.29210787	0.28	0.067	3.18E-146	7 HOXD11
5.20E-61	0.291879148	0.577	0.326	1.67E-56	7 RALY
4.47E-50	0.291684358	0.801	0.539	1.44E-45	7 RAB3IP
2.92E-105	0.291634392	0.288	0.088	9.39E-101	7 FGD3
3.72E-16	0.291474858	0.283	0.186	1.19E-11	7 STAT1
1.92E-101	0.291410593	0.371	0.129	6.16E-97	7 SCNN1G
4.65E-57	0.291274541	0.339	0.16	1.49E-52	7 AL513327.1
4.11E-111	0.291202021	0.251	0.07	1.32E-106	7 LINC01116
5.63E-50	0.290153064	0.632	0.392	1.81E-45	7 SEPTIN7
5.44E-57	0.288811755	0.355	0.168	1.75E-52	7 E2F3
2.54E-43	0.288250814	0.989	0.911	8.17E-39	7 GPHN
2.88E-60	0.287437961	0.567	0.322	9.26E-56	7 DNAJB6
5.43E-66	0.287193252	0.424	0.206	1.75E-61	7 ZBTB43
2.23E-51	0.287126664	0.571	0.345	7.15E-47	7 SYNJ2BP-COX10

3.03E-65	0.287107533	0.562	0.307	9.74E-61	7 MFN1
6.14E-49	0.28699379	0.591	0.364	1.97E-44	7 FAR1
3.04E-06	0.286600801	0.444	0.372	0.097596535	7 SAMD4A
2.81E-57	0.284624981	0.633	0.372	9.01E-53	7 TTC7B
8.31E-35	0.2839874	0.52	0.322	2.67E-30	7 AL033504.1
1.30E-56	0.283693623	0.448	0.238	4.19E-52	7 CYB5B
6.76E-44	0.283396209	0.966	0.832	2.17E-39	7 LRBA
2.81E-60	0.283253637	0.557	0.311	9.02E-56	7 AATF
7.01E-45	0.283238277	0.659	0.432	2.25E-40	7 CDC73
1.55E-54	0.282648959	0.582	0.332	4.97E-50	7 TMEM116
1.25E-55	0.282233507	0.663	0.403	4.03E-51	7 NFX1
1.60E-40	0.282052193	0.402	0.23	5.15E-36	7 UBC
1.17E-33	0.28148879	0.443	0.27	3.75E-29	7 GPR39
7.38E-57	0.281245134	0.443	0.233	2.37E-52	7 USP36
2.66E-25	0.280707113	0.694	0.507	8.53E-21	7 MAN1A1
3.16E-64	0.280607283	0.859	0.58	1.01E-59	7 TMEM117
7.72E-56	0.280470284	0.788	0.5	2.48E-51	7 TANC1
4.21E-49	0.280326358	0.601	0.366	1.35E-44	7 SEC23A
3.48E-46	0.28029925	0.754	0.502	1.12E-41	7 GMDS
3.26E-42	0.280055071	0.561	0.354	1.05E-37	7 RANBP9
8.15E-67	0.279847693	0.338	0.145	2.62E-62	7 RDH10
8.63E-19	0.279041309	0.449	0.313	2.77E-14	7 SLC45A4
1.75E-52	0.279012409	0.417	0.223	5.62E-48	7 GLRX3
3.65E-69	0.279011096	0.444	0.215	1.17E-64	7 AC118553.2
1.42E-30	0.278602635	0.666	0.46	4.56E-26	7 LINC01725
6.38E-45	0.278345014	0.767	0.52	2.05E-40	7 KIF16B
3.76E-51	0.27739936	0.793	0.534	1.21E-46	7 UBE3C
1.47E-38	0.277109919	0.713	0.494	4.72E-34	7 MAN1A2
3.05E-64	0.276236577	0.601	0.335	9.81E-60	7 ATP5F1C
1.90E-112	0.275965785	0.315	0.096	6.10E-108	7 AL512662.1
4.20E-44	0.275716609	0.733	0.49	1.35E-39	7 NUP214
3.46E-36	0.275557381	0.343	0.188	1.11E-31	7 ZFP36
3.36E-63	0.275033788	0.413	0.2	1.08E-58	7 INMT-MINDY4
5.90E-40	0.27497866	0.792	0.551	1.90E-35	7 CELF1
2.15E-44	0.27489086	0.661	0.43	6.90E-40	7 MTMR3
4.52E-35	0.274808452	0.866	0.615	1.45E-30	7 LINC02532
1.30E-55	0.274431379	0.521	0.292	4.18E-51	7 XPO6
9.00E-41	0.274327911	0.854	0.614	2.89E-36	7 GSK3B
1.06E-22	0.274248639	0.543	0.383	3.42E-18	7 BCL2L1
1.41E-42	0.274234585	0.43	0.246	4.53E-38	7 PSMD14
1.64E-51	0.273882381	0.476	0.257	5.27E-47	7 ME3
4.22E-77	0.273842691	0.35	0.139	1.35E-72	7 SORCS2
5.61E-18	0.273686539	0.645	0.488	1.80E-13	7 SH3D19
1.91E-47	0.273625894	0.622	0.39	6.12E-43	7 ATG5
1.36E-74	0.27261122	0.608	0.324	4.36E-70	7 EXOC6
2.62E-31	0.271902482	0.395	0.242	8.43E-27	7 SYN3
1.11E-44	0.271664704	0.518	0.312	3.57E-40	7 ABCB7
7.12E-86	0.271630666	0.436	0.191	2.29E-81	7 ERVK13-1
1.03E-38	0.271297383	0.67	0.445	3.31E-34	7 PACSIN2
1.98E-36	0.271113149	0.957	0.788	6.37E-32	7 FAF1
3.60E-65	0.270994766	0.345	0.151	1.16E-60	7 TTC39C

5.46E-43	0.269234702	0.847	0.603	1.75E-38	7 PUM1
3.88E-88	0.26910245	0.319	0.116	1.25E-83	7 INPP1
4.98E-97	0.26852666	0.365	0.134	1.60E-92	7 HOXD10
1.44E-53	0.267270133	0.697	0.425	4.62E-49	7 ALOX12P2
2.07E-34	0.267100883	0.566	0.374	6.64E-30	7 SESTD1
5.37E-43	0.267010497	0.699	0.467	1.72E-38	7 DOPIA
2.05E-36	0.266913161	0.686	0.467	6.60E-32	7 CDK8
7.50E-62	0.266576705	0.454	0.233	2.41E-57	7 ETF1
8.16E-20	0.26651919	0.626	0.456	2.62E-15	7 KLHL13
7.05E-43	0.266054753	0.721	0.482	2.26E-38	7 SMAP1
9.80E-34	0.266028083	0.52	0.333	3.15E-29	7 ATP8A1
5.59E-33	0.26582237	0.865	0.649	1.79E-28	7 NSMCE2
3.19E-72	0.265523174	0.323	0.134	1.02E-67	7 ATP5MC3
4.63E-107	0.265168252	0.256	0.075	1.49E-102	7 CU633967.1
9.72E-28	0.264952494	0.506	0.332	3.12E-23	7 AC034195.1
9.75E-54	0.264548751	0.573	0.333	3.13E-49	7 ACO2
3.24E-21	0.263130673	0.564	0.409	1.04E-16	7 AF241726.1
1.42E-53	0.263073425	0.348	0.169	4.56E-49	7 RUBCN
9.32E-39	0.262742656	0.714	0.5	2.99E-34	7 UACA
2.95E-45	0.262295291	0.417	0.23	9.47E-41	7 ZDHHC2
2.48E-39	0.262138354	0.35	0.189	7.96E-35	7 JADE3
1.25E-55	0.262101277	0.477	0.257	4.00E-51	7 TAF1B
1.05E-40	0.262096524	0.647	0.422	3.37E-36	7 ABII
5.37E-46	0.261975844	0.646	0.412	1.73E-41	7 RALGAPB
1.01E-35	0.261833075	0.659	0.446	3.25E-31	7 GPATCH2
3.23E-40	0.261764394	0.755	0.52	1.04E-35	7 GBF1
8.31E-45	0.261682946	0.505	0.297	2.67E-40	7 LEMD3
5.26E-36	0.26163603	0.604	0.398	1.69E-31	7 CDYL
1.48E-40	0.261559156	0.668	0.44	4.76E-36	7 AP2B1
2.48E-51	0.261086187	0.474	0.261	7.95E-47	7 PPTC7
1.54E-40	0.260236316	0.448	0.263	4.95E-36	7 GTF2F2
1.44E-54	0.259566857	0.389	0.195	4.62E-50	7 RAB22A
1.36E-18	0.258499561	0.693	0.527	4.38E-14	7 PLCXD2
2.23E-62	0.25822745	0.362	0.167	7.17E-58	7 SCRNI
5.08E-39	0.257913628	0.742	0.497	1.63E-34	7 WDFY2
5.34E-53	0.257344716	0.417	0.21	1.71E-48	7 EML6
4.41E-31	0.257331659	0.733	0.513	1.42E-26	7 ST7
2.61E-42	0.25685703	0.81	0.554	8.39E-38	7 COG5
2.01E-28	0.256120652	0.856	0.646	6.46E-24	7 UBR5
3.83E-29	0.255789751	0.67	0.475	1.23E-24	7 POU2F1
1.45E-52	0.25491992	0.314	0.148	4.65E-48	7 IDH3A
3.23E-36	0.25482927	0.685	0.467	1.04E-31	7 RAP1B
2.09E-38	0.254769014	0.813	0.578	6.73E-34	7 PPP1R12A
1.93E-27	0.254107472	0.868	0.667	6.21E-23	7 DLG1
3.02E-36	0.254050815	0.609	0.409	9.71E-32	7 RELCH
2.21E-32	0.253953355	0.946	0.757	7.10E-28	7 ITPR2
5.28E-18	0.25385011	0.832	0.708	1.70E-13	7 MACROD2
5.42E-50	0.253809149	0.709	0.449	1.74E-45	7 DHX15
1.04E-62	0.253625883	0.439	0.219	3.33E-58	7 SLC23A2
1.73E-47	0.25352946	0.652	0.411	5.54E-43	7 MAPK1
5.32E-49	0.25352457	0.738	0.482	1.71E-44	7 UBE2D2

2.45E-34	0.253147676	0.304	0.161	7.88E-30	7 STAC
2.95E-41	0.253113309	0.877	0.658	9.49E-37	7 ANKRD11
1.80E-31	0.252455029	0.914	0.707	5.77E-27	7 MKLN1
6.78E-51	0.252382111	0.635	0.385	2.18E-46	7 PEX14
2.60E-23	0.251848024	0.681	0.495	8.35E-19	7 SMAD2
1.75E-57	0.251399731	0.564	0.323	5.64E-53	7 DIP2A
3.74E-24	0.251223725	0.433	0.287	1.20E-19	7 LAMC1
5.91E-47	0.250725971	0.528	0.313	1.90E-42	7 WIPF2
0	2.827273114	1	0.261	0	8 SLC5A12
0	2.719745201	0.997	0.31	0	8 UGT1A8
0	2.682935689	0.97	0.244	0	8 SORCS1
0	2.414820047	0.963	0.215	0	8 RHOBTB1
0	2.399233118	0.997	0.4	0	8 NLGN1
0	2.383879433	0.891	0.133	0	8 PCK1
0	2.358623765	0.997	0.269	0	8 SLC16A9
0	2.304790417	0.985	0.333	0	8 NOX4
0	2.285421436	1	0.429	0	8 CUBN
0	2.230369216	0.999	0.238	0	8 SLC13A3
0	2.204302353	0.975	0.172	0	8 ALDOB
0	2.201072949	0.808	0.213	0	8 PPP2R2B
0	2.177004712	0.987	0.215	0	8 PAH
0	2.159875764	0.992	0.259	0	8 SLC17A1
0	2.108784841	0.865	0.272	0	8 PCDH15
0	2.101196732	0.997	0.344	0	8 LRP2
0	2.089260961	0.862	0.054	0	8 AL162725.2
0	2.073395861	0.993	0.296	0	8 SLC2A9
0	2.064107069	0.954	0.208	0	8 LINC01060
0	2.0523302	0.909	0.153	0	8 AL110292.1
0	2.048479109	0.97	0.151	0	8 SLC36A2
0	2.045405	0.996	0.399	0	8 SLC4A4
0	2.002174582	0.99	0.458	0	8 FKBP5
0	1.999545747	0.972	0.38	0	8 ERFFI1
0	1.993690254	0.997	0.428	0	8 PDZD2
0	1.961503171	0.994	0.413	0	8 SUGCT
0	1.944735934	0.985	0.49	0	8 RNF152
0	1.943612967	0.913	0.294	0	8 LINC00278
0	1.926348383	0.96	0.123	0	8 CYP4A11
0	1.92562871	0.601	0.146	0	8 CDH20
0	1.914816697	0.96	0.191	0	8 ASS1
0	1.906643277	0.992	0.348	0	8 BNC2
0	1.893997204	0.992	0.483	0	8 EPB41L3
0	1.868830071	0.97	0.256	0	8 MIR100HG
0	1.861061901	0.793	0.117	0	8 CDH9
0	1.860286638	0.686	0.078	0	8 ST18
0	1.848592359	0.756	0.112	0	8 LINC02147
0	1.830028374	0.975	0.399	0	8 SLC16A12
0	1.795347324	0.962	0.159	0	8 HNF4A
0	1.777111565	0.983	0.245	0	8 ACSF2
0	1.770191602	0.956	0.262	0	8 ENPEP
0	1.76424495	0.927	0.199	0	8 AL391117.1
0	1.751298314	0.593	0.093	0	8 AC105094.2

0	1.748457717	0.965	0.347	0	8 LIN52
0	1.745380819	0.828	0.154	0	8 AC004053.1
0	1.742990391	0.924	0.206	0	8 ACO1
0	1.73271563	0.89	0.133	0	8 SLC17A3
0	1.732638662	0.663	0.166	0	8 ZNF804B
0	1.704496681	0.844	0.101	0	8 CYP4Z1
0	1.702397726	0.862	0.105	0	8 KCNK5
0	1.68441436	0.869	0.225	0	8 SYT1
0	1.676989483	0.942	0.153	0	8 DPYS
0	1.675927689	0.816	0.137	0	8 GDA
0	1.671426442	0.749	0.063	0	8 G6PC
0	1.668377673	0.542	0.09	0	8 CACNA1E
0	1.666627789	1	0.961	0	8 NEAT1
0	1.648928589	0.983	0.413	0	8 MSRA
0	1.642213405	0.941	0.141	0	8 PLG
0	1.634230486	0.837	0.299	0	8 TUBGCP3
0	1.628057236	0.895	0.123	0	8 PPP1R16B
0	1.621914295	0.879	0.255	0	8 LINC00871
0	1.619778274	0.914	0.174	0	8 AK4
0	1.612517609	0.971	0.48	0	8 DMGDH
0	1.610188518	0.828	0.091	0	8 LINC02027
0	1.608507057	0.903	0.117	0	8 CYP4A22-AS1
0	1.607214054	1	0.33	0	8 ACSM2B
0	1.589729392	0.997	0.731	0	8 WDR72
0	1.589207048	0.978	0.23	0	8 SLC47A1
0	1.57950654	0.955	0.234	0	8 CCNT2-AS1
0	1.576485011	0.926	0.323	0	8 AASS
0	1.574223585	0.829	0.132	0	8 AGMO
0	1.572304471	0.843	0.151	0	8 MMADHC-DT
0	1.564193307	0.939	0.242	0	8 PDZK1
0	1.536776279	0.945	0.186	0	8 SLC13A1
0	1.526218106	0.946	0.246	0	8 PCSK5
0	1.521389926	0.898	0.133	0	8 HECW1
0	1.517772015	1	0.362	0	8 ACSM2A
0	1.505933007	0.786	0.107	0	8 FBP1
0	1.504125874	0.782	0.078	0	8 AC004485.1
0	1.49403442	0.926	0.235	0	8 CDHR3
0	1.493305788	0.882	0.104	0	8 UPB1
0	1.492986348	0.941	0.357	0	8 KCNJ15
0	1.492030539	0.975	0.283	0	8 MME
0	1.476061973	0.963	0.215	0	8 GLYAT
0	1.47256165	0.865	0.137	0	8 CDH2
0	1.462088604	0.982	0.454	0	8 CRYL1
0	1.460312515	0.872	0.101	0	8 SLC22A8
0	1.459243021	0.997	0.506	0	8 NCKAP5
0	1.455003658	0.938	0.294	0	8 GRAMD1B
0	1.448892379	0.979	0.186	0	8 AGXT2
0	1.447523854	0.907	0.136	0	8 GLIS1
0	1.445391109	0.941	0.365	0	8 PDGFC
0	1.444193163	0.972	0.389	0	8 LINC01320
0	1.43777811	0.917	0.23	0	8 EHHADH

0	1.417079777	0.986	0.566	0	8 FGGY
0	1.416362411	0.998	0.584	0	8 RAB11FIP3
0	1.412389044	0.888	0.17	0	8 PEPD
0	1.404324651	0.798	0.126	0	8 KIAA1191
0	1.397162513	0.923	0.239	0	8 BHMT2
0	1.389938455	0.873	0.228	0	8 DDX58
1.56E-215	1.371076791	0.905	0.492	5.00E-211	8 SDK1
0	1.363886375	0.863	0.262	0	8 AC113414.1
8.98E-244	1.358085749	0.927	0.548	2.88E-239	8 RDX
0	1.353023993	0.773	0.226	0	8 LIPA
0	1.35048411	0.82	0.083	0	8 CYP4F3
0	1.349640513	0.955	0.399	0	8 GPC6
0	1.349577072	0.884	0.219	0	8 HGD
0	1.345873403	0.681	0.075	0	8 DGKG
0	1.342341961	0.898	0.178	0	8 AL589669.1
0	1.340764523	0.969	0.346	0	8 PTPRD
0	1.333478249	0.975	0.235	0	8 SLC6A13
0	1.323253172	0.918	0.243	0	8 TENM1
0	1.320715259	0.934	0.309	0	8 C9
0	1.320553102	0.647	0.084	0	8 OTOGL
0	1.312800623	0.953	0.429	0	8 SAMD5
0	1.311152319	0.872	0.144	0	8 SLC47A2
0	1.302071942	0.797	0.107	0	8 AC087762.1
0	1.301137306	0.846	0.166	0	8 SMIM2-AS1
0	1.300767621	0.603	0.076	0	8 LINC01229
0	1.298095328	0.463	0.074	0	8 AP003049.2
0	1.297225064	0.78	0.119	0	8 ATP8B4
0	1.294599143	0.905	0.266	0	8 TM7SF3
0	1.292504129	0.982	0.487	0	8 PPARA
0	1.286994828	0.94	0.294	0	8 SLC12A6
0	1.28675848	0.861	0.217	0	8 AC096577.1
0	1.277973397	0.92	0.227	0	8 TINAG
0	1.272240875	0.777	0.183	0	8 RMST
0	1.271186009	0.963	0.191	0	8 SLC22A6
0	1.263940361	0.893	0.137	0	8 ANPEP
0	1.262209679	0.988	0.529	0	8 ZBTB16
0	1.258880968	0.851	0.29	0	8 CYP3A5
0	1.258421677	0.951	0.488	0	8 MAP3K13
0	1.257294586	0.691	0.066	0	8 ABLIM3
0	1.257194606	0.91	0.368	0	8 CNTN4
0	1.25392982	0.815	0.12	0	8 AC087482.1
0	1.253511698	0.907	0.133	0	8 DPEP1
0	1.25191786	0.788	0.123	0	8 NPL
0	1.2508569	0.861	0.164	0	8 GIPC2
0	1.24531543	0.965	0.208	0	8 MIOX
0	1.243896755	0.925	0.226	0	8 ARHGAP10
0	1.241412606	0.836	0.123	0	8 MAPT
0	1.239773362	0.929	0.219	0	8 LINC00671
0	1.234720685	1	0.644	0	8 MAST4
0	1.233685471	0.89	0.206	0	8 ARHGAP42
0	1.229737402	0.929	0.38	0	8 MTFR1

8.22E-307	1.224911577	0.878	0.385	2.64E-302	8 TTTY14
0	1.222411342	0.789	0.179	0	8 POR
0	1.219751012	0.849	0.355	0	8 MFSD14B
0	1.219510536	0.916	0.378	0	8 SH3YL1
0	1.218766339	0.633	0.073	0	8 AL033381.1
0	1.215655348	0.866	0.172	0	8 SHMT1
0	1.211897264	0.889	0.268	0	8 BNIP3L
0	1.207866556	0.804	0.118	0	8 SLC7A7
4.79E-275	1.205712978	0.847	0.366	1.54E-270	8 SGO1-AS1
0	1.203459486	0.632	0.115	0	8 AL031599.1
0	1.198574477	0.916	0.335	0	8 PLEKHA6
0	1.198484706	0.752	0.166	0	8 GPR155
0	1.196067061	0.724	0.073	0	8 ZYG11A
0	1.195195969	0.819	0.177	0	8 LINC01239
0	1.195077605	0.85	0.202	0	8 RGL1
0	1.19215807	0.962	0.494	0	8 PCLO
0	1.189589491	0.884	0.26	0	8 KIAA1549
1.41E-279	1.183435023	0.736	0.272	4.52E-275	8 RANBP17
0	1.182323007	0.658	0.139	0	8 CXXC4-AS1
0	1.177735191	0.891	0.351	0	8 GLDC
0	1.177143365	0.915	0.231	0	8 EBNA1BP2
0	1.172626328	0.845	0.224	0	8 EVA1A
0	1.172544125	0.846	0.2	0	8 SLC66A2
0	1.171362149	0.941	0.484	0	8 RREB1
0	1.171134811	0.838	0.264	0	8 ZFAT
5.39E-136	1.167934375	0.509	0.21	1.73E-131	8 MAN1C1
0	1.162464506	0.888	0.234	0	8 PRUNE2
0	1.157336071	0.982	0.682	0	8 REV3L
0	1.154823814	0.973	0.422	0	8 TPCN1
0	1.150827439	0.857	0.324	0	8 ACSL1
0	1.145978982	0.849	0.242	0	8 FN3K
0	1.139188474	0.997	0.591	0	8 TRPM3
1.25E-290	1.137709585	0.766	0.286	4.01E-286	8 P4HA1
0	1.136119488	0.822	0.198	0	8 ALDH3A2
0	1.123735398	0.911	0.299	0	8 PRLR
0	1.123416299	0.704	0.071	0	8 SORD
0	1.121653637	0.76	0.176	0	8 TNFRSF21
1.54E-303	1.118688307	0.978	0.66	4.96E-299	8 PLEKHA7
0	1.113517434	0.697	0.152	0	8 F11-AS1
9.27E-258	1.100102406	0.974	0.649	2.98E-253	8 TRPS1
0	1.099923687	0.801	0.135	0	8 FIGNL1
2.09E-279	1.097464461	0.994	0.695	6.71E-275	8 DLG2
0	1.09703022	0.842	0.166	0	8 TTC38
0	1.095221665	0.929	0.234	0	8 RASSF4
0	1.092435901	0.724	0.141	0	8 SLC25A48
0	1.091419571	0.777	0.167	0	8 LINC01788
0	1.088587542	0.749	0.153	0	8 AP002518.2
0	1.088419636	0.658	0.102	0	8 IFIT5
0	1.087863456	0.982	0.513	0	8 GUSBP11
3.51E-218	1.086646715	0.831	0.409	1.13E-213	8 AL390334.1
0	1.07935482	0.811	0.144	0	8 SLC25A42

0	1.07802819	0.682	0.126	0	8 LYPLAL1-AS1
0	1.077428097	0.897	0.343	0	8 DLEU2
0	1.076070829	0.801	0.225	0	8 SLC22A5
0	1.073440094	0.969	0.533	0	8 AIG1
0	1.069776604	0.74	0.158	0	8 SLC39A14
0	1.068352953	0.862	0.245	0	8 NQO2
0	1.064520941	0.89	0.351	0	8 FRMD4B
0	1.060972934	0.855	0.296	0	8 MTARC2
0	1.059177653	0.948	0.398	0	8 HPN
0	1.052886933	0.822	0.275	0	8 GALNT2
1.27E-267	1.051414798	0.729	0.261	4.09E-263	8 AL359232.1
0	1.051311887	0.859	0.306	0	8 CYB5A
0	1.045241524	0.641	0.054	0	8 A1CF
0	1.04411607	0.882	0.318	0	8 PDE7A
0	1.039990323	0.658	0.068	0	8 HAO2
1.39E-292	1.039744101	0.551	0.153	4.46E-288	8 TBC1D8B
0	1.037011419	0.884	0.325	0	8 SLC1A1
0	1.034919907	0.937	0.353	0	8 CLDN10
1.98E-273	1.03424376	0.754	0.273	6.37E-269	8 ZNF385B
1.73E-284	1.033421628	0.995	0.792	5.55E-280	8 PLEKHA5
0	1.032828741	0.726	0.151	0	8 IGSF11
0	1.032628633	0.655	0.026	0	8 CYP4A22
0	1.032370132	0.683	0.098	0	8 GLYATL1
0	1.032267333	0.612	0.08	0	8 BHMT
0	1.031217649	0.427	0.063	0	8 F13A1
0	1.029259813	0.87	0.23	0	8 AC027288.3
0	1.02808288	0.828	0.197	0	8 SAT2
0	1.026500195	0.998	0.832	0	8 RABGAP1L
0	1.025900234	0.829	0.177	0	8 IL6R
0	1.02522036	0.818	0.255	0	8 SNX30
0	1.022224831	0.697	0.103	0	8 HNF4G
6.97E-300	1.020075265	0.976	0.562	2.24E-295	8 TNS1
0	1.019144011	0.633	0.109	0	8 DRAIC
0	1.018422633	0.675	0.069	0	8 OR2T11
0	1.013456	0.89	0.237	0	8 ENPP7P8
0	1.013224741	0.856	0.335	0	8 RTTN
0	1.008442779	0.583	0.082	0	8 SCN1A-AS1
0	1.007048778	0.826	0.23	0	8 AC005726.1
3.32E-271	1.004886216	0.987	0.633	1.07E-266	8 NFIB
0	1.003971523	0.884	0.256	0	8 BBOX1
0	1.003324932	0.837	0.232	0	8 Z93403.1
0	1.002888548	0.699	0.114	0	8 GBA3
0	1.000985813	0.698	0.081	0	8 LINC00390
0	0.999605554	0.592	0.071	0	8 SLC2A2
0	0.99792574	0.751	0.109	0	8 P4HA2
0	0.996258566	0.744	0.131	0	8 PDZK1P1
0	0.995337429	0.871	0.16	0	8 SLC28A1
0	0.995285227	0.78	0.221	0	8 AC012593.1
1.00E-289	0.99188588	0.848	0.374	3.21E-285	8 SUCLG1
0	0.991763191	0.663	0.077	0	8 ENPP2
0	0.990424054	0.898	0.375	0	8 ELL2

0	0.98951617	0.542	0.058	0	8 SYN2
0	0.986124223	0.478	0.075	0	8 MT1G
0	0.986040789	0.669	0.08	0	8 AL358232.1
0	0.985853266	0.946	0.381	0	8 GRB10
0	0.983615292	0.773	0.216	0	8 MTHFS
0	0.981670576	0.726	0.076	0	8 SLC6A19
1.30E-239	0.978725532	0.959	0.565	4.17E-235	8 TRABD2B
0	0.978663485	0.936	0.384	0	8 MCF2L
2.16E-288	0.976887521	0.954	0.523	6.95E-284	8 CMIP
0	0.975572651	0.664	0.065	0	8 TMEM246-AS1
0	0.971512209	0.788	0.128	0	8 ABCC2
0	0.971376146	0.761	0.134	0	8 SFXN2
4.04E-247	0.969072541	0.99	0.76	1.30E-242	8 IGF1R
2.58E-288	0.967756663	0.987	0.598	8.30E-284	8 L3MBTL4
0	0.96629276	0.726	0.116	0	8 EPHA7
0	0.965594559	0.946	0.326	0	8 CNTNAP3B
6.79E-296	0.964533558	0.918	0.408	2.18E-291	8 OSBPL10
0	0.964014966	0.673	0.186	0	8 ZNF826P
1.30E-273	0.963275211	0.757	0.266	4.18E-269	8 LINC01515
0	0.962568443	0.842	0.203	0	8 PAPLN
0	0.961987141	0.754	0.186	0	8 GPR137B
0	0.960760621	0.557	0.112	0	8 SH3BP5
0	0.958834137	0.941	0.256	0	8 GPX3
7.85E-276	0.955138841	0.967	0.494	2.52E-271	8 NFIA
0	0.954598272	0.683	0.079	0	8 HPD
4.66E-264	0.951675031	0.993	0.751	1.50E-259	8 CDK14
0	0.95073484	0.801	0.217	0	8 CTSB
2.22E-303	0.950056283	0.88	0.387	7.12E-299	8 NEO1
0	0.947557365	0.708	0.181	0	8 MAOA
0	0.942995833	0.444	0.057	0	8 G0S2
0	0.937041133	0.81	0.237	0	8 CRYZL2P-SEC10
0	0.935820763	0.427	0.06	0	8 AP003400.1
0	0.933172625	0.85	0.182	0	8 XYLB
0	0.929696324	0.571	0.055	0	8 AOX1
0	0.928810628	0.849	0.327	0	8 SFXN5
0	0.928641218	0.887	0.386	0	8 PPP1R21
2.46E-278	0.926575101	0.895	0.403	7.90E-274	8 AC093423.3
0	0.925566946	0.791	0.112	0	8 PDZK1IP1
0	0.923122434	0.789	0.101	0	8 FUT6
0	0.917358182	0.737	0.176	0	8 ESR1
2.37E-263	0.915627169	0.939	0.483	7.61E-259	8 ZHX3
0	0.915390049	0.787	0.151	0	8 ABCC6
0	0.911182116	0.609	0.068	0	8 LINC01847
3.25E-299	0.910921003	0.946	0.481	1.04E-294	8 MIA2
0	0.909149203	0.918	0.36	0	8 RERG
0	0.908682869	0.462	0.041	0	8 SMIM35
0	0.908015936	0.604	0.078	0	8 TRPC7
3.54E-266	0.906587475	0.835	0.351	1.14E-261	8 CCDC146
0	0.906001898	0.54	0.042	0	8 SLC23A4P
0	0.905634715	0.708	0.155	0	8 MAOB
1.46E-239	0.902091507	0.958	0.61	4.70E-235	8 GLG1

1.77E-300	0.902038194	0.917	0.419	5.67E-296	8 AC105233.4
0	0.901923738	0.706	0.094	0	8 USH1C
7.44E-248	0.898658559	0.937	0.522	2.39E-243	8 XPR1
1.05E-232	0.896924355	0.819	0.356	3.38E-228	8 CACNA2D1
4.00E-286	0.896753086	0.884	0.413	1.28E-281	8 SETD3
0	0.896032126	0.76	0.141	0	8 SLC27A2
0	0.893708476	0.771	0.124	0	8 ABHD14A-ACY
2.16E-206	0.891927774	0.867	0.41	6.95E-202	8 CPM
0	0.890027748	0.636	0.068	0	8 LINC02499
0	0.88911284	0.5	0.052	0	8 HSD11B1-AS1
0	0.886787333	0.666	0.108	0	8 LINC02275
1.19E-156	0.886555876	0.941	0.631	3.83E-152	8 SIK2
0	0.885065802	0.579	0.053	0	8 AL121999.1
0	0.882497192	0.732	0.193	0	8 ACOX1
2.15E-254	0.881743764	0.939	0.487	6.91E-250	8 DENND5B
0	0.881520507	0.608	0.069	0	8 ENPP6
0	0.880997465	0.812	0.259	0	8 ACSS2
1.32E-238	0.879515202	0.97	0.675	4.24E-234	8 NUMB
0	0.879340931	0.659	0.11	0	8 DPF3
0	0.879043201	0.782	0.227	0	8 EYA2
0	0.878691422	0.48	0.066	0	8 MT1X
0	0.87806777	1	0.965	0	8 ZBTB20
0	0.877461663	0.754	0.17	0	8 AC012651.1
0	0.876943943	0.617	0.078	0	8 SCN8A
8.28E-168	0.875885523	0.898	0.558	2.66E-163	8 RALYL
0	0.875192733	0.772	0.178	0	8 BAIAP2
0	0.874338783	0.69	0.103	0	8 SLC17A4
0	0.87316692	0.723	0.204	0	8 PFKFB2
5.35E-274	0.871683021	0.72	0.245	1.72E-269	8 SH3GL2
0	0.869770203	0.707	0.126	0	8 ABHD6
0	0.869491737	0.469	0.072	0	8 AC006305.1
0	0.868380642	0.681	0.153	0	8 DOK6
0	0.866674548	0.788	0.23	0	8 CNTN3
0	0.864564594	0.72	0.159	0	8 ABAT
0	0.863299523	0.826	0.301	0	8 GPR89B
4.30E-222	0.862725551	0.579	0.193	1.38E-217	8 REPS2
0	0.859510873	0.642	0.074	0	8 PNPLA3
0	0.858427684	0.436	0.017	0	8 CYP27B1
0	0.857706395	0.671	0.082	0	8 ESPN
0	0.857371691	0.606	0.135	0	8 MGST1
0	0.852809015	0.517	0.048	0	8 SLC22A7
0	0.852147998	0.564	0.113	0	8 BBOX1-AS1
5.60E-307	0.851223297	0.816	0.294	1.80E-302	8 HPCAL1
4.41E-185	0.850577743	0.607	0.244	1.42E-180	8 AC008581.2
1.86E-222	0.845616842	0.986	0.694	5.99E-218	8 UBE2E2
0	0.845194334	0.686	0.138	0	8 AL136234.1
0	0.84381303	0.766	0.236	0	8 PBLD
6.65E-165	0.84300525	0.921	0.593	2.14E-160	8 ULK4
1.77E-256	0.842631982	0.816	0.335	5.69E-252	8 TTC39B
0	0.8405873	0.869	0.26	0	8 CNTNAP3P2
0	0.833852297	0.638	0.075	0	8 SERPINF2

0	0.830876665	0.683	0.111	0	8 GGT1
1.91E-297	0.825322713	0.782	0.282	6.15E-293	8 C1GALT1
0	0.82358324	0.714	0.113	0	8 PC
0	0.821558867	0.686	0.126	0	8 EAF2
0	0.819673246	0.568	0.068	0	8 OSBPL6
0	0.817015638	0.431	0.053	0	8 MT1H
4.81E-303	0.816685864	0.716	0.219	1.55E-298	8 ARSB
8.92E-253	0.816099352	0.807	0.296	2.87E-248	8 NRP1
5.62E-203	0.814892228	0.619	0.22	1.81E-198	8 LINGO2
0	0.814316034	0.579	0.068	0	8 UGT2A3
1.05E-205	0.813203447	0.844	0.401	3.39E-201	8 PDK4
0	0.812579944	0.521	0.034	0	8 COMETT
2.08E-221	0.812526347	0.637	0.237	6.67E-217	8 PPP2R1B
2.06E-281	0.810949385	0.414	0.085	6.63E-277	8 LINC02196
1.38E-286	0.810680063	0.772	0.277	4.45E-282	8 FMO4
0	0.810524994	0.427	0.055	0	8 AJ009632.2
0	0.810521676	0.708	0.204	0	8 PRKCZ
4.83E-239	0.809611654	0.971	0.569	1.55E-234	8 AC068587.4
0	0.80822172	0.707	0.18	0	8 PECR
0	0.80781758	0.718	0.114	0	8 SH3BP2
0	0.807547615	0.726	0.207	0	8 MREG
0	0.806176	0.472	0.043	0	8 EPS15-AS1
0	0.803425598	0.432	0.021	0	8 FABP1
0	0.802765622	0.629	0.126	0	8 NABP1
1.07E-195	0.802279802	0.958	0.57	3.44E-191	8 MIR99AHG
3.40E-228	0.801377776	0.794	0.306	1.09E-223	8 AL033504.1
0	0.80133787	0.719	0.146	0	8 GALM
1.74E-197	0.801267922	0.984	0.732	5.58E-193	8 WDFY3
0	0.799045865	0.634	0.097	0	8 C4B
1.00E-301	0.798730666	0.782	0.252	3.21E-297	8 CTTNBP2
2.62E-139	0.798563462	0.903	0.544	8.40E-135	8 P3H2
0	0.79714418	0.497	0.045	0	8 AC018709.1
1.77E-236	0.790615986	0.838	0.375	5.70E-232	8 ACAD11
0	0.787515051	0.536	0.1	0	8 PEMT
0	0.787251283	0.603	0.069	0	8 IYD
0	0.786320536	0.496	0.025	0	8 KCNH6
0	0.785133341	0.713	0.14	0	8 SLC34A1
4.71E-291	0.781635618	0.752	0.256	1.51E-286	8 PTGR1
5.89E-152	0.777289797	0.97	0.719	1.89E-147	8 AC008014.1
5.58E-218	0.777228144	0.893	0.464	1.79E-213	8 SGK3
0	0.773417562	0.427	0.026	0	8 TSKU
6.98E-185	0.772878911	0.915	0.502	2.24E-180	8 ST7
0	0.769890381	0.941	0.214	0	8 PRODH2
0	0.767879386	0.647	0.098	0	8 GPT2
1.49E-228	0.763464298	0.873	0.391	4.78E-224	8 SPATS2L
0	0.762636401	0.63	0.077	0	8 TFEC
0	0.76177724	0.541	0.1	0	8 AC018467.1
1.64E-167	0.760810899	0.948	0.623	5.28E-163	8 CRADD
5.00E-282	0.75910688	0.753	0.263	1.60E-277	8 L2HGDH
0	0.758933604	0.53	0.028	0	8 LINC00955
0	0.758817763	0.393	0.03	0	8 AC128707.1

7.55E-231	0.758292503	0.924	0.424	2.42E-226	8 GALNT14
0	0.755494466	0.484	0.045	0	8 PSAT1
1.18E-199	0.755344536	0.886	0.46	3.78E-195	8 RORA-AS1
2.31E-181	0.753968451	0.838	0.412	7.42E-177	8 KIAA0825
0	0.753689419	0.793	0.18	0	8 MLXIPL
0	0.752436476	0.828	0.229	0	8 TNIK
5.56E-242	0.751882012	0.686	0.24	1.79E-237	8 ENPP3
9.67E-265	0.750667624	0.797	0.277	3.10E-260	8 ALCAM
0	0.750604776	0.519	0.037	0	8 OR2T10
0	0.749486066	0.579	0.065	0	8 ALDH8A1
0	0.748693531	0.73	0.209	0	8 NR1H4
0	0.746039491	0.64	0.114	0	8 CMBL
0	0.74577765	0.675	0.161	0	8 ABI3BP
1.44E-146	0.744210282	0.975	0.656	4.61E-142	8 NHS
8.80E-293	0.743216836	0.742	0.239	2.83E-288	8 LSP1P5
8.45E-289	0.7419393	0.766	0.274	2.71E-284	8 GPR89A
0	0.741773079	0.715	0.1	0	8 SLC22A11
0	0.741295238	0.86	0.262	0	8 UGT2B7
0	0.738089374	0.6	0.068	0	8 ADORA2A-AS1
3.86E-91	0.737412559	0.499	0.225	1.24E-86	8 C1QTNF7-AS1
1.79E-161	0.736821656	0.778	0.355	5.74E-157	8 AC004593.2
8.15E-283	0.731401951	0.735	0.24	2.62E-278	8 LSP1P4
5.81E-147	0.730850125	0.37	0.112	1.87E-142	8 LINC00907
0	0.73081552	0.575	0.097	0	8 KYNU
4.03E-157	0.730432712	0.91	0.513	1.29E-152	8 TLN2
0	0.727417885	0.692	0.146	0	8 SPATA22
6.91E-192	0.726647298	0.906	0.498	2.22E-187	8 MICU1
1.01E-193	0.724954774	0.941	0.57	3.24E-189	8 HIBCH
7.44E-278	0.724162513	0.676	0.224	2.39E-273	8 SNX5
0	0.724032334	0.417	0.042	0	8 GDNF-AS1
6.72E-240	0.723949192	0.793	0.314	2.16E-235	8 OSBPL1A
3.86E-282	0.72350022	0.774	0.266	1.24E-277	8 MALT1
2.53E-197	0.723122145	0.891	0.474	8.11E-193	8 ATXN7L1
0	0.722534762	0.54	0.036	0	8 AC137056.2
1.36E-256	0.721878594	0.806	0.316	4.36E-252	8 PDPR
0	0.721369664	0.524	0.083	0	8 GCH1
1.58E-274	0.72100333	0.479	0.112	5.09E-270	8 SPSB1
0	0.719199829	0.726	0.19	0	8 TRPV1
0	0.719138126	0.51	0.069	0	8 CD226
7.88E-289	0.717744934	0.77	0.271	2.53E-284	8 STX3
0	0.717114889	0.641	0.174	0	8 TCP11L1
0	0.716369598	0.664	0.158	0	8 FTL
2.84E-173	0.714103592	0.715	0.301	9.12E-169	8 AC104123.1
9.20E-247	0.712948049	0.805	0.312	2.96E-242	8 KIF21A
0	0.711239395	0.474	0.074	0	8 ENPP1
1.94E-206	0.711106216	0.953	0.575	6.23E-202	8 VPS13A
0	0.710590929	0.698	0.191	0	8 ENTPD5
8.95E-294	0.709736662	0.775	0.262	2.87E-289	8 CELSR1
0	0.709406917	0.973	0.461	0	8 SLIT2
6.41E-261	0.707343577	0.836	0.34	2.06E-256	8 ENPP7P6
0	0.705926775	0.641	0.07	0	8 SLC39A5

9.71E-163	0.705397129	0.72	0.334	3.12E-158	8 CNTLN
1.88E-246	0.704365222	0.778	0.305	6.04E-242	8 NFATC3
0	0.70246773	0.684	0.177	0	8 FIGN
0	0.701698491	0.629	0.119	0	8 HDHD3
1.86E-152	0.70063419	0.986	0.694	5.96E-148	8 FRAS1
1.54E-219	0.698361163	0.796	0.32	4.95E-215	8 USP9Y
9.55E-202	0.697137135	0.779	0.333	3.07E-197	8 STON2
0	0.696406967	0.647	0.107	0	8 PRSS51
4.01E-292	0.695772683	0.69	0.206	1.29E-287	8 AC010894.2
0	0.694790524	0.517	0.104	0	8 CCDC162P
0	0.691734313	0.774	0.208	0	8 CNTNAP3
1.57E-227	0.691423953	0.76	0.308	5.05E-223	8 WBP1L
1.89E-138	0.690201034	0.698	0.321	6.09E-134	8 AC034195.1
3.27E-157	0.68940329	0.972	0.691	1.05E-152	8 VWA8
0	0.687820653	0.623	0.103	0	8 AC009053.3
0	0.68771194	0.62	0.075	0	8 CLEC18C
6.05E-184	0.687683937	0.814	0.382	1.94E-179	8 MAP3K5
1.21E-256	0.687446694	0.72	0.253	3.87E-252	8 RFFL
0	0.687228322	0.379	0.062	0	8 FER1L6
1.98E-179	0.68635611	0.907	0.489	6.37E-175	8 AUTS2
5.68E-195	0.684759229	0.864	0.429	1.82E-190	8 PUM3
0	0.684458369	0.606	0.093	0	8 TTYH3
0	0.681294379	0.61	0.109	0	8 GGT3P
0	0.680217355	0.616	0.114	0	8 RSAD1
0	0.680084925	0.636	0.154	0	8 ATP6V1B2
1.58E-229	0.67955283	0.656	0.22	5.06E-225	8 DIRC3
3.07E-210	0.679398992	0.686	0.248	9.86E-206	8 SLC7A8
1.16E-261	0.678854776	0.708	0.238	3.73E-257	8 MAST2
0	0.678673552	0.606	0.098	0	8 AC009060.1
0	0.677181771	0.591	0.12	0	8 CTSB
0	0.676087411	0.694	0.179	0	8 PXYLP1
1.08E-154	0.67608177	0.89	0.497	3.48E-150	8 NT5DC1
0	0.676073752	0.35	0.048	0	8 PRPS1
0	0.674919787	0.534	0.051	0	8 ETNK2
0	0.672261933	0.731	0.219	0	8 ABR
0	0.671466878	0.517	0.071	0	8 GGT2
1.18E-179	0.666916047	0.85	0.428	3.80E-175	8 SLC39A11
2.88E-247	0.666514788	0.674	0.233	9.24E-243	8 SRPK1
0	0.665327302	0.477	0.039	0	8 CTSL3P
0	0.664836208	0.599	0.134	0	8 GPR135
0	0.664333935	0.675	0.18	0	8 CAMK2G
0	0.664320603	0.493	0.058	0	8 PPARGC1B
1.20E-141	0.664213018	0.98	0.76	3.85E-137	8 AFF1
5.27E-196	0.663864398	1	0.918	1.69E-191	8 FHIT
0	0.662467793	0.679	0.165	0	8 NEDD4
0	0.661072064	0.489	0.075	0	8 PROS1
1.07E-182	0.660752369	0.912	0.511	3.45E-178	8 LARP4
1.47E-191	0.660408057	0.662	0.247	4.73E-187	8 EDA
2.08E-192	0.659540791	0.779	0.325	6.68E-188	8 SLC16A10
1.47E-147	0.658210287	0.672	0.303	4.72E-143	8 RSU1
0	0.658137208	0.668	0.117	0	8 CLEC18B

0	0.655906297	0.553	0.082	0	8 BIN1
7.51E-258	0.655783492	0.78	0.283	2.41E-253	8 AC126283.2
0	0.654745134	0.569	0.062	0	8 KCNAB2
1.06E-291	0.654555256	0.663	0.201	3.41E-287	8 CAT
7.17E-200	0.653240852	0.891	0.446	2.30E-195	8 FBXO21
5.80E-166	0.652628244	0.708	0.293	1.86E-161	8 AC087564.1
0	0.652576366	0.602	0.086	0	8 MYO7B
0	0.652276167	0.672	0.158	0	8 ERBB3
9.83E-179	0.652086948	0.78	0.363	3.16E-174	8 ACVR1
3.04E-209	0.652044656	0.615	0.221	9.75E-205	8 AC010210.1
1.80E-192	0.651920486	0.673	0.265	5.78E-188	8 GLCE
0	0.651292949	0.799	0.254	0	8 AFMID
7.55E-302	0.65078939	0.69	0.207	2.43E-297	8 RASSF8-AS1
1.91E-290	0.650067557	0.636	0.185	6.13E-286	8 KLF13
0	0.649450325	0.648	0.178	0	8 RPS4Y1
1.10E-283	0.648589308	0.639	0.186	3.52E-279	8 ALDH7A1
3.11E-138	0.646996585	0.929	0.605	9.98E-134	8 TSPAN9
0	0.646504008	0.489	0.048	0	8 OR2G6
7.77E-201	0.644402628	0.782	0.346	2.50E-196	8 LAMTOR5-AS1
0	0.644165744	0.52	0.093	0	8 PLEKHF2
9.42E-186	0.642613165	0.809	0.381	3.02E-181	8 STX7
2.56E-151	0.642567718	0.905	0.526	8.21E-147	8 KIAA1958
0	0.641021962	0.58	0.1	0	8 SLC6A12
0	0.641007366	0.336	0.039	0	8 LINC02220
3.73E-165	0.640787367	0.986	0.765	1.20E-160	8 CUX1
0	0.640242078	0.609	0.111	0	8 ADGRG5
0	0.640226815	0.565	0.106	0	8 SLC25A44
0	0.640094724	0.628	0.127	0	8 BCAT2
7.10E-252	0.639198352	0.626	0.185	2.28E-247	8 ROR1
4.46E-274	0.639134242	0.569	0.156	1.43E-269	8 E2F3
8.37E-182	0.63896114	0.845	0.416	2.69E-177	8 AGPAT3
0	0.636176984	0.676	0.173	0	8 LRP5
7.30E-173	0.635528184	0.851	0.43	2.34E-168	8 LCLAT1
0	0.632962938	0.542	0.11	0	8 FLVCR2
1.90E-174	0.631445302	0.883	0.45	6.09E-170	8 COBL
0	0.630382181	0.523	0.102	0	8 EPSTI1
0	0.630246373	0.41	0.038	0	8 GGT4P
0	0.630065956	0.785	0.226	0	8 TGFB3
0	0.629441407	0.732	0.214	0	8 DHTKD1
1.40E-167	0.628411828	0.868	0.476	4.50E-163	8 TBC1D19
0	0.628079492	0.515	0.086	0	8 SCN9A
7.27E-242	0.627455361	0.808	0.318	2.33E-237	8 EPHX2
1.84E-232	0.625796653	0.845	0.341	5.90E-228	8 ALDH1L1
2.31E-188	0.625699524	0.969	0.616	7.41E-184	8 PBX1
3.77E-136	0.625691092	0.917	0.568	1.21E-131	8 NT5C2
1.30E-195	0.624790975	0.774	0.339	4.19E-191	8 TTC21B
0	0.624424961	0.551	0.109	0	8 IDH1
1.43E-246	0.622146882	0.724	0.255	4.60E-242	8 GANC
1.11E-87	0.62203309	0.543	0.26	3.55E-83	8 NRG1
5.84E-135	0.621949952	0.948	0.636	1.88E-130	8 PTPRK
0	0.621654458	0.459	0.035	0	8 OR2T2

2.60E-202	0.621179273	0.791	0.355	8.34E-198	8 HMGN3
0	0.620862048	0.577	0.109	0	8 BX005040.4
1.66E-179	0.620104496	0.76	0.335	5.34E-175	8 NRIP1
0	0.618131016	0.428	0.032	0	8 ADRA1B
1.52E-143	0.61807349	0.874	0.509	4.87E-139	8 IFT88
0	0.617916197	0.573	0.139	0	8 ABCA1
0	0.617392026	0.546	0.072	0	8 SLC7A9
1.46E-297	0.617343139	0.581	0.154	4.68E-293	8 TMMEM63A
1.66E-173	0.616252694	0.813	0.378	5.35E-169	8 ACSS3
0	0.614600154	0.505	0.071	0	8 SDC1
2.96E-131	0.613933834	0.907	0.58	9.51E-127	8 SEC31A
5.11E-156	0.613819703	0.749	0.373	1.64E-151	8 BMS1P1
0	0.613683242	0.347	0.039	0	8 TYR
1.38E-155	0.61216221	0.877	0.487	4.44E-151	8 ABCD3
0	0.611506785	0.543	0.116	0	8 GRTP1
0	0.61068943	0.481	0.038	0	8 PCK2
0	0.610282233	0.562	0.081	0	8 SLC26A6
0	0.610113086	0.608	0.153	0	8 HADH
0	0.608725762	0.504	0.065	0	8 PGAP4
4.74E-111	0.607824502	0.991	0.803	1.52E-106	8 PRKN
0	0.606955898	0.437	0.03	0	8 R3HDML
3.60E-211	0.606267069	0.727	0.283	1.16E-206	8 CHPT1
4.61E-215	0.605969511	0.329	0.068	1.48E-210	8 AC024230.1
0	0.605191317	0.549	0.107	0	8 DCXR
4.58E-203	0.605124864	0.992	0.714	1.47E-198	8 DIP2C
4.71E-158	0.604687811	0.833	0.436	1.51E-153	8 MSH3
3.13E-177	0.604133396	0.869	0.412	1.01E-172	8 BICDL1
0	0.602001775	0.509	0.052	0	8 XPNPEP2
0	0.599318373	0.471	0.064	0	8 FMO1
1.27E-257	0.598717365	0.687	0.217	4.07E-253	8 DZIP1
1.37E-205	0.598329578	0.786	0.333	4.40E-201	8 ATP6V0A1
0	0.598082459	0.457	0.071	0	8 KMO
9.31E-261	0.596791882	0.674	0.22	2.99E-256	8 DNAJC16
0	0.596058319	0.485	0.068	0	8 RIDA
2.72E-10	0.595681869	0.313	0.234	8.75E-06	8 ANKS1B
1.13E-130	0.595470406	0.951	0.651	3.63E-126	8 DENND1A
3.80E-166	0.594855708	0.92	0.542	1.22E-161	8 ECHDC2
1.75E-153	0.594246648	0.67	0.291	5.61E-149	8 PALM2AKAP2
4.78E-288	0.593806372	0.728	0.233	1.54E-283	8 C11orf54
9.42E-245	0.593447977	0.437	0.105	3.03E-240	8 LRRC7
1.69E-244	0.593246347	0.726	0.245	5.41E-240	8 AC008554.1
0	0.592801638	0.641	0.176	0	8 NIT2
0	0.592616069	0.637	0.112	0	8 PRR5
1.85E-261	0.59255767	0.569	0.158	5.95E-257	8 KCNC3
0	0.592369671	0.427	0.064	0	8 COL19A1
4.73E-202	0.592253573	0.748	0.292	1.52E-197	8 ADCY9
7.69E-155	0.592238189	0.805	0.391	2.47E-150	8 TPD52
2.35E-150	0.591463203	0.997	0.859	7.55E-146	8 ANK3
0	0.591273221	0.491	0.09	0	8 C10orf67
2.11E-240	0.590881612	0.777	0.299	6.77E-236	8 KLHL20
4.98E-141	0.590877191	0.794	0.391	1.60E-136	8 ASTN2

0	0.590387079	0.396	0.019	0	8 NAT8
0	0.590079158	0.649	0.152	0	8 SLC12A7
0	0.590070493	0.476	0.075	0	8 UGT3A1
3.35E-147	0.589799931	0.894	0.507	1.08E-142	8 FANCC
2.32E-134	0.58866487	0.898	0.557	7.45E-130	8 TYW1
2.66E-154	0.588085058	0.733	0.332	8.53E-150	8 HS2ST1
0	0.587313241	0.623	0.118	0	8 AKR1A1
1.26E-119	0.586231194	0.844	0.492	4.06E-115	8 KIFC3
0	0.583996791	0.551	0.116	0	8 TUB
3.28E-281	0.58339059	0.48	0.111	1.05E-276	8 RAB20
0	0.582968184	0.605	0.139	0	8 RGN
0	0.581436541	0.471	0.098	0	8 NHEJ1
0	0.579359176	0.487	0.085	0	8 PLAAT3
0	0.57774762	0.432	0.06	0	8 AC113386.1
5.28E-182	0.577617965	0.753	0.307	1.69E-177	8 SLC22A23
0	0.577495965	0.56	0.075	0	8 ABCC6P1
7.95E-131	0.577244735	0.93	0.608	2.55E-126	8 KCNQ1OT1
0	0.577182426	0.776	0.221	0	8 FAM20C
1.45E-148	0.57665634	0.968	0.68	4.67E-144	8 AKAP13
1.04E-255	0.576479519	0.404	0.087	3.34E-251	8 UNC79
1.50E-131	0.575777465	0.956	0.628	4.82E-127	8 TTC28
0	0.574979681	0.568	0.133	0	8 PHYHIPL
3.28E-259	0.574925255	0.732	0.23	1.05E-254	8 DOCK8
5.38E-178	0.574529464	0.844	0.414	1.73E-173	8 LARP1
1.70E-152	0.574055918	0.661	0.28	5.45E-148	8 CEMIP2
0	0.572676479	0.422	0.052	0	8 GSTA2
0	0.572612988	0.447	0.036	0	8 DEPDC7
1.28E-162	0.57216969	0.861	0.455	4.12E-158	8 ADD1
0	0.571113548	0.477	0.046	0	8 DIO1
0	0.570812295	0.502	0.092	0	8 PCTP
0	0.569133954	0.592	0.147	0	8 KLKB1
0	0.568849767	0.506	0.079	0	8 GATM
0	0.568510595	0.556	0.116	0	8 DLGAP2
0	0.568214895	0.432	0.043	0	8 NAPSA
1.25E-149	0.568090514	0.779	0.38	4.00E-145	8 LRRC28
1.67E-181	0.567628803	0.585	0.213	5.35E-177	8 ERO1B
3.45E-161	0.567597663	0.848	0.397	1.11E-156	8 GHR
0	0.566676613	0.41	0.027	0	8 OR2T35
0	0.566306333	0.471	0.074	0	8 LINC02794
4.76E-256	0.566127743	0.495	0.127	1.53E-251	8 GNA12
2.56E-224	0.565926271	0.669	0.229	8.23E-220	8 AC006994.1
0	0.563907126	0.483	0.054	0	8 CYP4Z2P
1.12E-193	0.563352331	0.704	0.288	3.60E-189	8 ACADM
1.26E-149	0.563193123	0.442	0.148	4.04E-145	8 LINC00598
9.49E-303	0.562765738	0.288	0.038	3.05E-298	8 AC124854.1
2.83E-214	0.56091751	0.511	0.151	9.09E-210	8 FTCDNL1
0	0.560305118	0.411	0.05	0	8 AL034417.4
1.22E-225	0.55987706	0.59	0.188	3.93E-221	8 PTP4A1
1.77E-132	0.558882353	0.727	0.359	5.68E-128	8 DERA
4.95E-157	0.558158368	0.761	0.364	1.59E-152	8 PTPN1
5.02E-138	0.557161618	0.938	0.61	1.61E-133	8 DMXL1

0	0.556841327	0.505	0.073	0	8 ACOX2
8.91E-158	0.554469666	1	0.91	2.86E-153	8 GPHN
4.91E-114	0.554446214	0.904	0.546	1.58E-109	8 FNIP2
2.96E-220	0.553712042	0.695	0.252	9.52E-216	8 UTP4
9.30E-95	0.552779914	0.944	0.687	2.99E-90	8 TEAD1
4.07E-108	0.552768347	0.901	0.566	1.31E-103	8 TFDP2
2.03E-228	0.552242518	0.556	0.171	6.52E-224	8 MAT2A
7.91E-165	0.551311864	0.74	0.33	2.54E-160	8 PCBP1-AS1
5.32E-149	0.550945542	0.997	0.869	1.71E-144	8 LPP
0	0.550777421	0.596	0.145	0	8 MFSD4B
0	0.548235863	0.494	0.071	0	8 RBP5
2.18E-228	0.547292662	0.325	0.064	7.00E-224	8 AC046195.1
9.02E-129	0.546778425	0.861	0.496	2.90E-124	8 MIR29B2CHG
0	0.545489498	0.444	0.042	0	8 PIPOX
0	0.545407108	0.501	0.082	0	8 TMEM37
0	0.543806694	0.486	0.063	0	8 SLC5A10
1.38E-159	0.543623459	0.782	0.345	4.42E-155	8 DGKH
4.44E-172	0.543264666	0.579	0.21	1.43E-167	8 SOBP
0	0.542891653	0.665	0.18	0	8 HAGH
0	0.540358199	0.431	0.066	0	8 SLC36A1
1.82E-270	0.540184512	0.562	0.149	5.84E-266	8 NECTIN3
0	0.539835155	0.482	0.063	0	8 LINC02754
2.34E-142	0.539354468	1	0.859	7.53E-138	8 PATJ
0	0.538613899	0.612	0.142	0	8 PGPEP1
2.77E-167	0.538329483	0.698	0.295	8.90E-163	8 BEND7
3.27E-125	0.538213108	0.89	0.448	1.05E-120	8 UTU
1.61E-234	0.537544228	0.472	0.12	5.18E-230	8 MGAM
5.88E-205	0.537519884	0.613	0.208	1.89E-200	8 AGPAT5
0	0.537054878	0.563	0.082	0	8 CDHR5
3.53E-153	0.536388491	0.839	0.431	1.14E-148	8 PLEKHA1
4.07E-121	0.535646376	0.728	0.364	1.31E-116	8 C2orf88
9.05E-186	0.535060017	0.72	0.291	2.91E-181	8 BMP2K
2.94E-200	0.535000085	0.647	0.235	9.44E-196	8 EEFSEC
0	0.5314579	0.518	0.099	0	8 AC027796.3
1.60E-133	0.531456892	0.799	0.386	5.15E-129	8 PDZRN3
4.30E-113	0.530819711	0.998	0.842	1.38E-108	8 LRMDA
2.90E-261	0.530544197	0.512	0.131	9.31E-257	8 PUS10
1.47E-229	0.530470266	0.576	0.169	4.72E-225	8 MPP6
1.14E-115	0.530122997	0.92	0.572	3.67E-111	8 PTPRJ
0	0.52929801	0.487	0.1	0	8 L3HYPDH
5.00E-204	0.529176572	0.469	0.132	1.61E-199	8 CLSTN2
4.95E-113	0.529044369	0.978	0.695	1.59E-108	8 RBM47
3.23E-124	0.528214435	0.386	0.13	1.04E-119	8 GABRB3
0	0.527767227	0.522	0.064	0	8 TMEM106A
0	0.527354271	0.415	0.055	0	8 TRIM71
6.64E-210	0.527324044	0.713	0.264	2.13E-205	8 DIXDC1
2.74E-142	0.52718922	0.875	0.475	8.79E-138	8 SH3D19
3.29E-130	0.525867076	0.901	0.528	1.06E-125	8 SLC25A13
3.51E-132	0.520440282	0.867	0.483	1.13E-127	8 OSBPL8
1.34E-224	0.519570933	0.584	0.178	4.31E-220	8 LRIG3
2.19E-211	0.518927752	0.669	0.241	7.03E-207	8 CYP4V2

0	0.518889561	0.439	0.032	0	8 ACMSD
1.65E-138	0.518760762	0.721	0.347	5.31E-134	8 MDM2
0	0.518636154	0.607	0.15	0	8 FAM102A
0	0.51779803	0.274	0.03	0	8 IRGM
0	0.517574003	0.415	0.06	0	8 IFIT1
0	0.517402321	0.449	0.078	0	8 GLI3
0	0.517138025	0.489	0.084	0	8 ACAA1
0	0.516834592	0.448	0.056	0	8 NGEF
0	0.516825713	0.381	0.039	0	8 AC118942.1
0	0.516610936	0.383	0.019	0	8 NPY
0	0.514844392	0.408	0.041	0	8 LINC01558
1.18E-71	0.514658024	0.263	0.094	3.79E-67	8 DNAH5
0	0.513894014	0.37	0.05	0	8 LINC00862
7.71E-192	0.512335289	0.761	0.3	2.48E-187	8 ATP11A
6.26E-114	0.511069076	0.691	0.353	2.01E-109	8 TBCA
0	0.511031524	0.37	0.026	0	8 AC098483.1
7.13E-294	0.509570885	0.725	0.206	2.29E-289	8 CLIC4
0	0.509002788	0.529	0.064	0	8 KHK
9.32E-275	0.50892626	0.444	0.098	2.99E-270	8 NOCT
3.43E-113	0.5079116	0.991	0.83	1.10E-108	8 SNX29
0	0.507100355	0.366	0.026	0	8 STRA8
0	0.505561257	0.439	0.082	0	8 HPGD
0	0.503167047	0.388	0.055	0	8 AL365259.1
0	0.502768968	0.381	0.063	0	8 AC009495.1
4.24E-107	0.502006976	0.997	0.888	1.36E-102	8 RORA
1.42E-180	0.501711184	0.772	0.316	4.58E-176	8 FREM2
5.86E-150	0.501052877	0.728	0.334	1.88E-145	8 DCUN1D4
1.45E-249	0.500498787	0.304	0.05	4.66E-245	8 LINC02128
1.24E-184	0.498753279	0.26	0.05	3.98E-180	8 AL136114.1
1.81E-226	0.498511775	0.647	0.218	5.82E-222	8 DDI2
8.98E-215	0.49747744	0.477	0.128	2.88E-210	8 DNAJC6
4.66E-172	0.496887419	0.987	0.748	1.50E-167	8 PTPRM
0	0.495781528	0.444	0.075	0	8 CDH6
1.20E-110	0.495436585	0.819	0.469	3.84E-106	8 TACC2
2.22E-107	0.495359216	0.864	0.511	7.14E-103	8 FRMD3
0	0.495136519	0.366	0.035	0	8 CRYM
3.48E-162	0.494748582	0.657	0.27	1.12E-157	8 ECHDC1
0	0.494554399	0.422	0.054	0	8 LINC01020
1.76E-189	0.494040048	0.743	0.282	5.65E-185	8 NR3C1
0	0.492805552	0.365	0.024	0	8 AC006159.2
2.27E-169	0.492781348	0.776	0.34	7.28E-165	8 PLCG1
0	0.492130462	0.373	0.06	0	8 DPP4
1.28E-300	0.492072842	0.41	0.078	4.11E-296	8 HSD17B3
1.46E-105	0.491602539	0.933	0.617	4.69E-101	8 ARHGEF28
0	0.491265719	0.41	0.054	0	8 MIR181A1HG
2.11E-165	0.490626094	0.68	0.279	6.79E-161	8 DTNBP1
0	0.490578894	0.483	0.087	0	8 ALDH6A1
3.54E-170	0.490205343	0.648	0.259	1.14E-165	8 AC006978.2
4.80E-221	0.485817979	0.867	0.352	1.54E-216	8 IQGAP2
0	0.484369845	0.345	0.047	0	8 BMX
0	0.484198232	0.347	0.035	0	8 CYP4X1

0	0.482849727	0.553	0.109	0	8 CHDH
0	0.482552349	0.576	0.141	0	8 GOLGA2P5
0	0.482271813	0.362	0.054	0	8 PLIN2
1.36E-104	0.482187639	0.935	0.618	4.37E-100	8 SORBS2
1.97E-108	0.482178332	0.983	0.767	6.32E-104	8 TNRC6A
4.92E-255	0.481685035	0.473	0.113	1.58E-250	8 ABHD17B
0	0.48054426	0.424	0.037	0	8 GPD1
4.54E-291	0.480187514	0.634	0.172	1.46E-286	8 HDAC6
5.04E-95	0.480079319	0.437	0.178	1.62E-90	8 FOXP2
7.65E-116	0.47992829	0.879	0.542	2.46E-111	8 RBM33
3.23E-207	0.478769522	0.482	0.138	1.04E-202	8 SNX8
0	0.478568885	0.386	0.047	0	8 AC068946.1
5.98E-175	0.478252483	0.341	0.085	1.92E-170	8 SOCS2-AS1
0	0.477961921	0.532	0.104	0	8 TMEM176B
3.57E-134	0.477604872	0.681	0.313	1.15E-129	8 ZNRF2
8.28E-117	0.476825575	0.792	0.422	2.66E-112	8 AF127577.4
8.10E-116	0.475838396	0.783	0.407	2.60E-111	8 ENTPD1-AS1
6.36E-282	0.475617104	0.502	0.119	2.04E-277	8 CERK
0	0.474296055	0.431	0.074	0	8 AC007325.2
3.12E-98	0.474139988	0.772	0.418	1.00E-93	8 SUCLG2-AS1
1.52E-112	0.473794123	0.882	0.509	4.89E-108	8 ARHGAP32
0	0.47335299	0.398	0.036	0	8 ANKS4B
3.30E-240	0.4733363	0.458	0.113	1.06E-235	8 SSX2IP
0	0.472593617	0.436	0.046	0	8 CYP2B6
5.16E-199	0.47163555	0.655	0.224	1.66E-194	8 KL
2.82E-241	0.470580188	0.466	0.116	9.06E-237	8 ACLY
2.47E-252	0.469800352	0.49	0.121	7.95E-248	8 Z94721.1
2.72E-126	0.469173565	0.959	0.643	8.73E-122	8 INSR
0	0.468979549	0.334	0.025	0	8 C3orf85
9.02E-62	0.468691829	0.946	0.709	2.90E-57	8 CGNL1
4.06E-171	0.468168974	0.829	0.387	1.30E-166	8 DMXL2
1.16E-98	0.468150542	0.959	0.669	3.73E-94	8 PLXDC2
1.11E-108	0.467547382	0.495	0.208	3.58E-104	8 DNAH6
7.88E-159	0.466910751	0.591	0.223	2.53E-154	8 PANK1
0	0.466902919	0.297	0.028	0	8 AC079779.2
0	0.466806059	0.378	0.028	0	8 IP6K3
5.81E-239	0.466653986	0.528	0.143	1.87E-234	8 AC116562.3
1.80E-288	0.466627828	0.463	0.101	5.79E-284	8 SLC16A4
0	0.466208979	0.523	0.078	0	8 FGD5
3.11E-186	0.466178824	0.613	0.222	1.00E-181	8 CRLS1
0	0.464757713	0.595	0.124	0	8 MAF
3.42E-110	0.464644828	0.768	0.41	1.10E-105	8 GNPTAB
2.05E-147	0.464511831	0.729	0.334	6.59E-143	8 SCP2
6.99E-145	0.464203625	0.738	0.341	2.25E-140	8 HSDL2
7.88E-102	0.464018294	0.876	0.531	2.53E-97	8 ROCK2
1.56E-255	0.463890452	0.512	0.132	5.00E-251	8 ZNF697
0	0.463607123	0.414	0.048	0	8 RAB29
1.32E-117	0.462325064	1	0.823	4.22E-113	8 PTH2R
1.46E-78	0.461924698	0.802	0.498	4.68E-74	8 TMEM245
0	0.461409417	0.455	0.076	0	8 AC024896.1
2.88E-307	0.460107291	0.596	0.142	9.26E-303	8 ZEB2

1.39E-108	0.459881124	0.772	0.41	4.46E-104	8 MGMT
0	0.459029036	0.294	0.02	0	8 PRNP
0	0.458984836	0.444	0.05	0	8 CES3
5.21E-235	0.458922567	0.596	0.178	1.67E-230	8 BBOF1
4.72E-262	0.458510361	0.489	0.119	1.52E-257	8 AC130462.2
1.22E-283	0.458230886	0.456	0.098	3.91E-279	8 EPHX1
0	0.457755257	0.339	0.044	0	8 GSTA1
3.61E-138	0.457309892	0.28	0.07	1.16E-133	8 PLCXD3
2.18E-124	0.456743715	0.661	0.309	7.00E-120	8 SFXN1
9.52E-191	0.456400047	0.438	0.121	3.06E-186	8 SERTAD2
3.97E-208	0.455863172	0.402	0.098	1.27E-203	8 LGMN
1.85E-254	0.45550948	0.438	0.097	5.93E-250	8 SLC16A1-AS1
1.29E-195	0.455352518	0.658	0.232	4.13E-191	8 TRPV4
1.17E-288	0.455176733	0.415	0.081	3.74E-284	8 NET1
1.03E-97	0.453912109	0.972	0.718	3.30E-93	8 SHANK2
1.16E-147	0.452390895	0.692	0.292	3.71E-143	8 CACHD1
0	0.451962196	0.307	0.024	0	8 SLC16A1
1.96E-132	0.451767825	0.772	0.385	6.30E-128	8 GALK2
6.73E-211	0.450930108	0.653	0.224	2.16E-206	8 AC127526.3
4.83E-116	0.450580305	0.912	0.555	1.55E-111	8 AC008695.1
2.03E-201	0.44800833	0.534	0.166	6.52E-197	8 OPTN
0	0.44705715	0.311	0.023	0	8 FOLH1B
1.14E-222	0.44567731	0.636	0.198	3.67E-218	8 ST3GAL1
1.97E-232	0.445590719	0.455	0.115	6.32E-228	8 SEPSECS
0	0.445476839	0.34	0.046	0	8 GREB1
5.77E-66	0.445447895	0.821	0.528	1.85E-61	8 PCAT1
1.85E-248	0.445190879	0.501	0.129	5.95E-244	8 TMEM192
0	0.444539792	0.355	0.041	0	8 GAS2L3
8.88E-253	0.444505445	0.418	0.092	2.85E-248	8 ACOT13
0	0.443372066	0.331	0.017	0	8 RNF186
0	0.443081581	0.393	0.039	0	8 PROZ
1.51E-188	0.442289459	0.591	0.199	4.86E-184	8 PLD1
0	0.442188522	0.334	0.024	0	8 LINC02303
1.85E-213	0.441708922	0.577	0.179	5.95E-209	8 HOGA1
1.73E-85	0.441470098	0.891	0.584	5.56E-81	8 SUCLG2
3.25E-102	0.441068348	0.691	0.35	1.04E-97	8 SESN1
4.53E-87	0.440913435	0.855	0.525	1.45E-82	8 LRRFIP2
2.04E-278	0.439890522	0.383	0.069	6.55E-274	8 LINC01428
0	0.439748449	0.378	0.032	0	8 SLC5A2
2.54E-77	0.439345101	0.98	0.762	8.15E-73	8 FARP1
9.25E-153	0.439308173	0.7	0.3	2.97E-148	8 KLF9
0	0.439165675	0.314	0.009	0	8 HNF4A-AS1
9.82E-169	0.438345201	0.557	0.197	3.15E-164	8 INPP5F
2.35E-95	0.437542127	0.866	0.536	7.54E-91	8 ANKIB1
2.44E-145	0.436694375	0.561	0.203	7.82E-141	8 SLC22A2
0	0.436612595	0.396	0.05	0	8 TMEM150A
2.14E-277	0.435942013	0.408	0.082	6.89E-273	8 COX14
3.89E-90	0.435817544	0.842	0.497	1.25E-85	8 BCKDHB
8.09E-85	0.434400177	0.914	0.599	2.60E-80	8 SIPA1L1
0	0.43423718	0.385	0.053	0	8 GUCD1
4.18E-269	0.434205726	0.412	0.085	1.34E-264	8 SEC16B

0	0.433719255	0.343	0.028	0	8 AC009084.1
3.45E-303	0.433282453	0.429	0.082	1.11E-298	8 HAAO
4.38E-271	0.432893343	0.331	0.055	1.41E-266	8 AC116345.3
3.27E-94	0.432726504	0.986	0.778	1.05E-89	8 AGAP1
0	0.432489769	0.358	0.049	0	8 FOLH1
0	0.432418079	0.373	0.031	0	8 ACSM5P1
2.32E-202	0.432161946	0.488	0.142	7.46E-198	8 ASAH1
1.73E-279	0.431508595	0.279	0.038	5.55E-275	8 GLYATL2
1.20E-182	0.43137807	0.529	0.175	3.86E-178	8 AL160269.1
2.38E-245	0.431288197	0.354	0.069	7.65E-241	8 LINC02588
3.78E-152	0.429682099	0.572	0.216	1.21E-147	8 GK
2.96E-239	0.429632698	0.564	0.162	9.52E-235	8 AC141586.1
4.50E-146	0.429395799	0.67	0.29	1.45E-141	8 FAM177A1
1.55E-146	0.429364623	0.831	0.389	4.99E-142	8 CACNA1D
0	0.428824815	0.29	0.019	0	8 MROH2A
1.77E-243	0.428770638	0.609	0.179	5.69E-239	8 CALM1
1.15E-131	0.427546544	0.666	0.303	3.68E-127	8 ETFA
0	0.427282782	0.383	0.033	0	8 PDZD3
0	0.426775509	0.574	0.127	0	8 ASPA
1.29E-195	0.426640033	0.502	0.151	4.15E-191	8 SRP54-AS1
1.81E-45	0.426531628	0.315	0.155	5.83E-41	8 ALDH1A1
2.85E-152	0.424495421	0.666	0.283	9.14E-148	8 RIOK3
1.12E-156	0.424205674	0.577	0.219	3.60E-152	8 TXLNGY
0	0.424173729	0.592	0.128	0	8 AP000346.1
1.23E-100	0.422867813	0.791	0.433	3.94E-96	8 CLYBL
3.17E-240	0.42276035	0.259	0.039	1.02E-235	8 MT1F
6.97E-300	0.421835075	0.295	0.04	2.24E-295	8 CALCB
2.89E-165	0.421729057	0.451	0.14	9.30E-161	8 GCLC
1.12E-66	0.420697059	0.986	0.773	3.59E-62	8 FGD4
2.23E-107	0.420559493	0.743	0.384	7.15E-103	8 LARP1B
5.24E-307	0.420095894	0.393	0.07	1.68E-302	8 LPIN3
6.66E-101	0.420011768	0.88	0.539	2.14E-96	8 RUFY3
4.61E-188	0.418738571	0.628	0.226	1.48E-183	8 TRIP4
1.39E-290	0.418110085	0.34	0.054	4.46E-286	8 VSTM4
3.47E-117	0.417839208	0.349	0.113	1.12E-112	8 SLC25A21
0	0.417790263	0.543	0.092	0	8 ACSM5
1.15E-150	0.417743788	0.723	0.327	3.70E-146	8 ZKSCAN1
4.37E-236	0.417641588	0.376	0.078	1.40E-231	8 LINC01277
4.80E-104	0.416005296	0.643	0.313	1.54E-99	8 ACER3
1.45E-237	0.41586713	0.376	0.079	4.67E-233	8 RUNDC3B
0	0.41567195	0.365	0.04	0	8 SARDH
2.44E-248	0.414268046	0.547	0.148	7.84E-244	8 RTKN
7.27E-293	0.413993273	0.29	0.04	2.33E-288	8 SLC5A11
5.89E-200	0.412979576	0.539	0.167	1.89E-195	8 POLD3
5.67E-265	0.411474985	0.293	0.044	1.82E-260	8 TMEM252-DT
3.86E-115	0.410868809	0.897	0.553	1.24E-110	8 TAF1D
2.19E-245	0.410525439	0.372	0.077	7.02E-241	8 NUDT16
1.95E-122	0.410248127	0.506	0.197	6.27E-118	8 TSHZ1
0	0.409918293	0.362	0.049	0	8 MYOM2
1.27E-89	0.409752472	0.632	0.319	4.07E-85	8 CECR2
0	0.40754348	0.334	0.05	0	8 MYLK4

6.23E-158	0.405761373	0.408	0.123	2.00E-153	8 MORC4
9.21E-127	0.405382184	0.66	0.3	2.96E-122	8 CEP43
3.03E-146	0.404341521	0.7	0.309	9.72E-142	8 IP6K2
8.76E-128	0.403980581	0.782	0.373	2.81E-123	8 SLC3A1
1.20E-129	0.403516409	0.66	0.299	3.86E-125	8 LRIG2
1.84E-235	0.403482246	0.381	0.082	5.92E-231	8 NCS1
5.98E-101	0.402406894	0.823	0.454	1.92E-96	8 IGF2BP2
0	0.402273531	0.294	0.023	0	8 NUGGC
9.79E-242	0.402098663	0.357	0.071	3.14E-237	8 METTL24
2.85E-152	0.402001295	0.494	0.176	9.16E-148	8 DHX35
0	0.401837203	0.335	0.048	0	8 UNC5CL
8.79E-181	0.401432536	0.494	0.152	2.82E-176	8 EIF1B-AS1
0	0.401029236	0.277	0.019	0	8 ACE
9.95E-95	0.400935317	0.908	0.599	3.20E-90	8 OGA
4.18E-148	0.399504559	0.515	0.188	1.34E-143	8 TEX2
1.35E-151	0.399005386	0.483	0.163	4.33E-147	8 POU5F1
0	0.39867542	0.302	0.033	0	8 TMEM200A
1.49E-196	0.398533193	0.386	0.095	4.78E-192	8 PKP2
1.26E-224	0.398234225	0.432	0.106	4.03E-220	8 BAG3
1.41E-271	0.398144525	0.472	0.107	4.54E-267	8 SLC2A4RG
0	0.397556668	0.413	0.066	0	8 NID1
6.43E-141	0.397530254	0.851	0.425	2.07E-136	8 FAT1
0	0.397479852	0.277	0.021	0	8 PRDM7
0	0.397232178	0.347	0.037	0	8 SORD2P
0	0.397048991	0.346	0.043	0	8 ACE2
0	0.396938965	0.56	0.113	0	8 AC010451.1
1.51E-95	0.396880391	0.643	0.318	4.83E-91	8 GLUD1
0	0.396734666	0.348	0.036	0	8 IQSEC3
3.61E-156	0.396666367	0.702	0.287	1.16E-151	8 LINC02334
8.47E-259	0.395713642	0.387	0.077	2.72E-254	8 IRAG2
0	0.395509922	0.347	0.033	0	8 STRA6
0	0.394542448	0.368	0.06	0	8 AL080317.1
0	0.394318113	0.39	0.065	0	8 AL080317.2
1.82E-136	0.393682668	0.639	0.273	5.85E-132	8 ADHFE1
3.46E-296	0.393453915	0.619	0.157	1.11E-291	8 FAAH
3.84E-290	0.392973257	0.483	0.103	1.23E-285	8 HSD17B14
4.69E-117	0.392633447	0.625	0.287	1.51E-112	8 CRYZ
1.11E-89	0.392321174	0.731	0.39	3.57E-85	8 LINC01376
4.93E-78	0.39209552	0.906	0.571	1.58E-73	8 TRHDE
2.01E-97	0.391958314	0.757	0.413	6.45E-93	8 ANKUB1
6.93E-158	0.391797679	0.59	0.218	2.23E-153	8 MACROD1
1.01E-303	0.391086613	0.436	0.083	3.24E-299	8 BAIAP2L2
8.13E-228	0.391059661	0.48	0.126	2.61E-223	8 ZGPAT
3.06E-195	0.390921701	0.447	0.124	9.84E-191	8 ACADL
1.91E-101	0.389885028	0.741	0.399	6.13E-97	8 CTNNB1
1.81E-271	0.389715694	0.443	0.093	5.82E-267	8 SPNS2
4.93E-191	0.389115789	0.341	0.08	1.58E-186	8 TXN
5.96E-169	0.388326538	0.555	0.197	1.91E-164	8 MTCH2
1.09E-117	0.388135249	0.581	0.25	3.51E-113	8 CCDC18
0	0.388071816	0.314	0.034	0	8 NT5E
1.02E-128	0.387659939	0.542	0.219	3.27E-124	8 DNAJC15

9.32E-109	0.387535388	0.537	0.23	2.99E-104	8 TGFBR1
3.52E-93	0.387505004	0.995	0.831	1.13E-88	8 PARD3
3.97E-77	0.38730568	0.98	0.663	1.27E-72	8 AC005208.1
0	0.387300674	0.348	0.051	0	8 NRL
7.06E-155	0.387056969	0.653	0.265	2.27E-150	8 TRMT11
3.80E-124	0.386918802	0.654	0.291	1.22E-119	8 RRAS2
2.27E-80	0.386533791	0.541	0.263	7.28E-76	8 LINC01572
1.48E-294	0.385954789	0.403	0.074	4.77E-290	8 GGACT
1.80E-69	0.385701515	0.851	0.548	5.77E-65	8 MAP7
0	0.385253179	0.377	0.054	0	8 SESN2
1.03E-189	0.385168017	0.473	0.135	3.29E-185	8 PARM1
1.32E-83	0.384950548	0.802	0.48	4.23E-79	8 HIPK3
2.71E-144	0.384585244	0.768	0.361	8.72E-140	8 NPLOC4
2.27E-98	0.384402198	0.974	0.763	7.29E-94	8 GOLGA4
7.98E-268	0.384219377	0.38	0.073	2.56E-263	8 HSD3BP5
5.49E-127	0.384172021	0.656	0.292	1.76E-122	8 NDFIP2
0	0.383792929	0.387	0.063	0	8 AL021920.2
0	0.383786749	0.291	0.011	0	8 LINC00853
1.49E-197	0.383688842	0.452	0.121	4.77E-193	8 GRIA3
8.95E-239	0.382998765	0.509	0.132	2.87E-234	8 ENPP7P7
1.71E-87	0.382847589	0.762	0.418	5.50E-83	8 AL078459.1
2.36E-228	0.382536479	0.298	0.053	7.59E-224	8 AL359915.1
2.75E-133	0.382288994	0.73	0.345	8.82E-129	8 SAFB2
2.66E-43	0.381967478	0.828	0.562	8.53E-39	8 FOXO3
0	0.381966372	0.343	0.035	0	8 COL6A4P2
6.29E-160	0.380883556	0.465	0.152	2.02E-155	8 MIR22HG
0	0.380378848	0.383	0.054	0	8 RASA4
4.18E-97	0.380376125	0.783	0.42	1.34E-92	8 ZNF827
2.93E-101	0.380083253	0.645	0.315	9.40E-97	8 SFMBT1
6.43E-117	0.379877964	0.754	0.384	2.07E-112	8 GAPVD1
9.44E-19	0.379824859	0.303	0.199	3.03E-14	8 AQP4-AS1
3.54E-87	0.379801066	0.867	0.526	1.14E-82	8 DIP2B
2.23E-193	0.379723786	0.653	0.225	7.16E-189	8 ADAMTS9-AS1
4.54E-178	0.379723357	0.543	0.182	1.46E-173	8 GOSR2
1.84E-230	0.379305868	0.427	0.102	5.89E-226	8 RPS27L
3.34E-148	0.378815829	0.852	0.395	1.07E-143	8 ANK2
1.44E-92	0.378605432	0.868	0.515	4.61E-88	8 NINL
1.44E-196	0.378592217	0.375	0.091	4.64E-192	8 NR1H2
0	0.377656508	0.664	0.148	0	8 CLEC18A
8.02E-168	0.377530651	0.472	0.148	2.57E-163	8 CEP57L1
7.79E-195	0.377338878	0.471	0.136	2.50E-190	8 PEBP1
6.76E-185	0.37628164	0.426	0.119	2.17E-180	8 TDP2
3.96E-141	0.375793801	0.576	0.228	1.27E-136	8 TRIM66
0	0.375311114	0.317	0.028	0	8 AC016924.1
2.93E-205	0.375253429	0.587	0.184	9.42E-201	8 USP2
5.37E-95	0.374630633	0.879	0.525	1.72E-90	8 TULP4
9.33E-263	0.374522611	0.48	0.11	3.00E-258	8 MEIS1
2.40E-102	0.373910058	0.794	0.43	7.71E-98	8 RIN2
3.75E-128	0.371676332	0.667	0.291	1.21E-123	8 CPPED1
2.93E-232	0.371559252	0.344	0.069	9.42E-228	8 AL606489.1
1.55E-103	0.370839595	0.792	0.428	4.98E-99	8 SLC25A16

8.53E-91	0.370044513	0.992	0.875	2.74E-86	8 SYNE2
1.32E-175	0.369945774	0.365	0.092	4.25E-171	8 ZNF521
1.13E-109	0.369890176	0.86	0.47	3.62E-105	8 MICAL3
0	0.369572861	0.357	0.053	0	8 DRICH1
2.40E-143	0.369317685	0.574	0.224	7.70E-139	8 ACAT1
6.72E-60	0.368987751	0.304	0.131	2.16E-55	8 CFAP299
1.11E-285	0.368969705	0.358	0.062	3.56E-281	8 BDH2
0	0.368858855	0.388	0.066	0	8 ASB13
4.47E-181	0.36877466	0.551	0.178	1.44E-176	8 SLC15A2
1.39E-234	0.368105186	0.408	0.092	4.48E-230	8 GRHPR
0	0.367652647	0.969	0.265	0	8 FTCD
4.85E-63	0.367313711	0.825	0.54	1.56E-58	8 SIPA1L3
2.48E-161	0.367290305	0.333	0.085	7.96E-157	8 MT1E
3.17E-108	0.367192686	0.692	0.34	1.02E-103	8 BCL2L13
0	0.366699081	0.38	0.059	0	8 MAST3
3.34E-164	0.365449357	0.478	0.153	1.07E-159	8 LINC01359
0	0.365414359	0.297	0.031	0	8 MTPP
1.22E-244	0.365335592	0.37	0.074	3.91E-240	8 ETV5
1.34E-81	0.365294456	0.791	0.459	4.30E-77	8 ATE1
0	0.365246372	0.331	0.042	0	8 TRIM14
1.12E-177	0.364378812	0.424	0.12	3.58E-173	8 SLC17A5
1.18E-81	0.364257564	0.749	0.412	3.79E-77	8 CC2D2A
5.70E-163	0.363738123	0.618	0.229	1.83E-158	8 TPTE2P6
7.37E-216	0.363390794	0.41	0.099	2.37E-211	8 TMTC4
2.15E-63	0.363360213	0.983	0.77	6.91E-59	8 AOPEP
4.11E-106	0.363217845	0.704	0.359	1.32E-101	8 HIRA
0	0.362813741	0.323	0.027	0	8 TUBA5P
5.40E-126	0.36125158	0.283	0.077	1.73E-121	8 CPEB2-DT
3.09E-76	0.360948918	0.857	0.538	9.94E-72	8 ADD3
3.68E-150	0.360935439	0.524	0.193	1.18E-145	8 TMBIM6
2.18E-110	0.360888811	0.417	0.156	7.00E-106	8 ACADSB
6.09E-127	0.360622178	0.653	0.288	1.96E-122	8 CFAP69
1.04E-175	0.360515274	0.281	0.059	3.35E-171	8 PPP1R14C
3.04E-81	0.359995232	0.873	0.545	9.77E-77	8 KIF13B
1.29E-97	0.359683798	0.677	0.333	4.13E-93	8 CRPPA
4.09E-229	0.35943196	0.474	0.12	1.31E-224	8 SMTNL2
0	0.359406406	0.31	0.027	0	8 SUSD3
0	0.359354738	0.274	0.017	0	8 SLCO2B1
1.69E-196	0.359111755	0.5	0.146	5.43E-192	8 TPCN2
0	0.358974665	0.268	0.023	0	8 MAP7D2
9.76E-200	0.358634587	0.652	0.224	3.14E-195	8 RNF212B
0	0.358592035	0.355	0.039	0	8 AZGP1
1.93E-79	0.35788559	0.912	0.602	6.19E-75	8 SPAG9
2.36E-201	0.357844264	0.527	0.155	7.59E-197	8 RIPOR3
0	0.357666829	0.278	0.028	0	8 NAT1
2.96E-147	0.357414696	0.438	0.141	9.52E-143	8 AMZ1
1.38E-88	0.357355214	0.992	0.822	4.43E-84	8 PTPRG
3.20E-246	0.356302662	0.413	0.091	1.03E-241	8 BPHL
3.35E-58	0.356276503	0.976	0.796	1.08E-53	8 EXOC4
1.40E-183	0.355515458	0.596	0.205	4.50E-179	8 CNDP2
5.48E-237	0.354957885	0.277	0.044	1.76E-232	8 CCDC158

4.00E-224	0.354596534	0.479	0.125	1.29E-219	8 OCIAD2
2.74E-241	0.353948436	0.475	0.116	8.81E-237	8 SLC9B2
5.65E-104	0.353641272	0.723	0.371	1.82E-99	8 ZXDC
7.09E-109	0.353437622	0.585	0.266	2.28E-104	8 NAPEPLD
7.72E-93	0.353302776	0.649	0.328	2.48E-88	8 AL592183.1
0	0.353250566	0.292	0.028	0	8 EEF1AKMT3
0	0.352278696	0.297	0.029	0	8 UGT2B26P
4.40E-141	0.352103384	0.633	0.259	1.41E-136	8 EVC
2.26E-103	0.35183073	0.686	0.333	7.25E-99	8 RETREG1
3.80E-200	0.351790911	0.38	0.092	1.22E-195	8 LTBR
9.06E-165	0.351560876	0.531	0.18	2.91E-160	8 RMND1
3.76E-64	0.351131948	0.948	0.658	1.21E-59	8 PDE8A
2.19E-116	0.35100588	0.653	0.286	7.04E-112	8 ZNF462
1.68E-96	0.350950543	0.386	0.145	5.39E-92	8 STEAP2-AS1
5.59E-184	0.35078335	0.487	0.149	1.79E-179	8 CLCN6
9.47E-191	0.350622319	0.438	0.122	3.04E-186	8 C19orf12
1.12E-134	0.349576717	0.624	0.259	3.60E-130	8 AP3S2
1.03E-258	0.348860457	0.374	0.073	3.31E-254	8 THNSL2
3.15E-194	0.348675409	0.466	0.133	1.01E-189	8 SLC3A2
1.11E-186	0.348077096	0.535	0.171	3.56E-182	8 SLC2A11
6.20E-243	0.348004789	0.382	0.078	1.99E-238	8 COTL1
4.16E-125	0.347504322	0.54	0.22	1.34E-120	8 TOMM70
6.14E-152	0.347195711	0.496	0.17	1.97E-147	8 ENPP7P10
1.42E-79	0.34611347	0.822	0.496	4.55E-75	8 CFDP1
2.27E-128	0.346040755	0.579	0.239	7.30E-124	8 WDR12
3.18E-120	0.346013673	0.532	0.216	1.02E-115	8 SLC35D1
9.84E-106	0.345440336	0.63	0.301	3.16E-101	8 EPS15L1
1.93E-114	0.345062601	0.613	0.277	6.20E-110	8 NUP58
2.79E-191	0.34464419	0.528	0.164	8.95E-187	8 TOB2
1.56E-177	0.343866067	0.258	0.049	5.00E-173	8 AC009271.1
0	0.343814938	0.263	0.012	0	8 AL117382.1
0	0.343679805	0.322	0.038	0	8 HNF1A
5.43E-264	0.343639094	0.438	0.094	1.75E-259	8 SELENBP1
1.25E-98	0.343483732	0.708	0.363	4.01E-94	8 SCYL2
8.05E-134	0.343168715	0.579	0.227	2.59E-129	8 NPR3
2.68E-210	0.341489848	0.379	0.088	8.62E-206	8 B4GALT4
1.95E-226	0.341365304	0.426	0.101	6.25E-222	8 MTHFR
1.23E-246	0.340992932	0.423	0.093	3.94E-242	8 NEK6
1.48E-224	0.340814772	0.333	0.065	4.75E-220	8 FAM124A
2.49E-102	0.340182392	0.766	0.399	8.00E-98	8 GNG12
5.42E-140	0.339976574	0.433	0.141	1.74E-135	8 GPC4
1.62E-297	0.339792071	0.35	0.056	5.20E-293	8 IL17RB
1.19E-148	0.339572303	0.455	0.15	3.82E-144	8 LHPP
1.59E-100	0.339262827	0.757	0.402	5.12E-96	8 PPP2R2D
9.87E-251	0.338067278	0.403	0.084	3.17E-246	8 ECHS1
2.69E-307	0.337441952	0.33	0.049	8.63E-303	8 FAHD1
8.74E-70	0.337297147	0.337	0.141	2.81E-65	8 TPRG1
0	0.337279898	0.262	0.015	0	8 AC021491.4
0	0.336849447	0.288	0.025	0	8 ELFN2
5.04E-89	0.336467537	0.771	0.425	1.62E-84	8 UBR4
9.02E-107	0.335773875	0.558	0.248	2.90E-102	8 FMR1

8.96E-128	0.335603161	0.671	0.303	2.88E-123	8 ATG4B
3.73E-165	0.335444476	0.422	0.126	1.20E-160	8 AC066613.2
1.58E-81	0.335209858	0.698	0.382	5.06E-77	8 PTAR1
0	0.334693727	0.285	0.022	0	8 CLRN3
5.63E-110	0.334416129	0.602	0.268	1.81E-105	8 GTF2E2
2.74E-150	0.334075526	0.429	0.137	8.80E-146	8 PDSS1
3.07E-117	0.333674404	0.351	0.114	9.87E-113	8 DGKB
4.40E-75	0.333485595	0.802	0.471	1.41E-70	8 SHLD2
1.10E-117	0.332951721	0.674	0.304	3.53E-113	8 RASGRF2
2.88E-106	0.332815324	0.53	0.226	9.26E-102	8 AGLB3
6.61E-102	0.332737922	0.565	0.253	2.12E-97	8 UGP2
6.72E-142	0.331802317	0.476	0.163	2.16E-137	8 PLSCR4
1.44E-198	0.331797169	0.384	0.092	4.61E-194	8 RNF157
3.96E-200	0.33133588	0.39	0.094	1.27E-195	8 WASF1
0	0.331332112	0.267	0.017	0	8 LINC01016
9.55E-231	0.331132656	0.369	0.078	3.07E-226	8 TRIM13
1.59E-60	0.330242867	0.905	0.624	5.10E-56	8 ATXN2
5.95E-151	0.329994799	0.369	0.107	1.91E-146	8 SLC31A1
5.10E-63	0.329650099	0.821	0.524	1.64E-58	8 INVS
5.51E-63	0.328848737	0.773	0.473	1.77E-58	8 ABL1
1.50E-117	0.328415037	0.51	0.202	4.83E-113	8 LRRC6
1.41E-169	0.328365979	0.344	0.086	4.54E-165	8 RNF128
4.06E-153	0.327233861	0.508	0.173	1.30E-148	8 CEP135
4.37E-132	0.327066053	0.268	0.067	1.40E-127	8 FAM135B
1.58E-214	0.326578131	0.329	0.067	5.08E-210	8 C16orf87
3.16E-183	0.326067858	0.403	0.107	1.01E-178	8 GNPDA1
4.31E-215	0.326060692	0.415	0.098	1.38E-210	8 CCDC88C
1.27E-142	0.325923728	0.49	0.173	4.07E-138	8 RNF146
4.65E-78	0.325920319	0.788	0.471	1.49E-73	8 USP40
2.67E-169	0.325696618	0.423	0.123	8.57E-165	8 TOB1
0	0.324899146	0.281	0.023	0	8 AC137056.1
8.52E-190	0.324650487	0.402	0.103	2.74E-185	8 AC127526.1
3.29E-127	0.323997952	0.73	0.329	1.06E-122	8 ABHD15-AS1
0	0.323805875	0.39	0.065	0	8 ALAD
0	0.323699086	0.277	0.031	0	8 AL591178.1
1.86E-79	0.323419366	0.709	0.366	5.97E-75	8 PLPPR1
2.98E-131	0.323218661	0.481	0.178	9.56E-127	8 SAR1B
0	0.323059548	0.796	0.172	0	8 AFM
3.96E-123	0.322559089	0.486	0.186	1.27E-118	8 TAF4
7.12E-182	0.322513895	0.432	0.123	2.29E-177	8 LAMP1
0	0.322025875	0.264	0.016	0	8 PLA2G12B
8.17E-178	0.321861774	0.502	0.157	2.63E-173	8 EIF4EBP2
9.03E-115	0.321813354	0.491	0.195	2.90E-110	8 BBS2
2.44E-90	0.321698484	0.845	0.484	7.83E-86	8 FBXO34
7.51E-250	0.321607402	0.369	0.072	2.41E-245	8 AQP7
4.05E-112	0.321345924	0.584	0.25	1.30E-107	8 LINC02615
3.68E-98	0.320845202	0.628	0.305	1.18E-93	8 XIAP
4.70E-125	0.320562133	0.476	0.173	1.51E-120	8 MB21D2
1.21E-207	0.320384558	0.35	0.077	3.89E-203	8 A4GALT
1.33E-210	0.320343202	0.408	0.098	4.27E-206	8 ALDH2
5.98E-251	0.318191954	0.319	0.055	1.92E-246	8 QDPR

7.64E-226	0.318106577	0.407	0.093	2.45E-221	8 GRINA
5.07E-128	0.318002682	0.432	0.15	1.63E-123	8 ANKDD1B
1.56E-259	0.317942081	0.372	0.07	4.99E-255	8 LRRC75B
8.57E-308	0.317912402	0.346	0.052	2.75E-303	8 TMPRSS4
4.02E-248	0.317692402	0.331	0.06	1.29E-243	8 KLF15
4.71E-149	0.317387132	0.362	0.103	1.51E-144	8 ACVR2B
6.38E-232	0.317369399	0.397	0.087	2.05E-227	8 AP002990.1
2.88E-217	0.317052418	0.294	0.053	9.25E-213	8 KCNG2
0	0.316941679	0.251	0.019	0	8 CLDN2
3.42E-72	0.316636468	0.67	0.368	1.10E-67	8 DDX10
4.10E-280	0.316507416	0.388	0.072	1.32E-275	8 SCRIN2
7.23E-100	0.316192153	0.608	0.28	2.32E-95	8 CCDC6
6.19E-144	0.314992074	0.318	0.084	1.99E-139	8 LINC00535
0	0.314678544	0.304	0.032	0	8 SLC34A3
5.07E-54	0.314499193	0.946	0.712	1.63E-49	8 KANSL1L
1.18E-217	0.314291038	0.427	0.103	3.78E-213	8 RXRA
1.21E-298	0.314213148	0.277	0.035	3.89E-294	8 PNPLA1
5.67E-147	0.313863688	0.471	0.16	1.82E-142	8 SS18L1
3.92E-118	0.313853665	0.65	0.297	1.26E-113	8 PDPK1
1.21E-85	0.313697784	0.82	0.471	3.90E-81	8 CCDC30
0	0.313615823	0.263	0.022	0	8 ASB15
2.24E-236	0.313460248	0.297	0.051	7.19E-232	8 MARCHF9
2.53E-298	0.313390857	0.327	0.049	8.13E-294	8 CDHR2
1.55E-98	0.313042357	0.727	0.367	4.97E-94	8 PDZD8
3.79E-112	0.312649355	0.568	0.246	1.22E-107	8 ATP6V1C1
1.30E-103	0.312336001	0.654	0.309	4.19E-99	8 SPEF2
3.02E-191	0.312239247	0.319	0.07	9.71E-187	8 BTD
6.44E-53	0.312077019	0.884	0.607	2.07E-48	8 STPG2
1.12E-164	0.312009957	0.408	0.118	3.59E-160	8 ATP5IF1
0	0.310917824	0.324	0.044	0	8 SLC37A4
2.95E-275	0.310719869	0.281	0.04	9.49E-271	8 SLC51A
2.64E-52	0.310355715	0.917	0.664	8.47E-48	8 DLG1
2.76E-199	0.310327422	0.429	0.111	8.86E-195	8 ULK3
2.20E-134	0.309883272	0.421	0.141	7.05E-130	8 GLUD1P2
1.17E-168	0.309262723	0.473	0.146	3.76E-164	8 MCRIP2
2.88E-170	0.309153479	0.387	0.103	9.26E-166	8 AR
8.41E-81	0.308659969	0.903	0.58	2.70E-76	8 ENOSF1
5.12E-96	0.308565744	0.602	0.285	1.64E-91	8 PLEKHM3
6.05E-92	0.308496351	0.514	0.231	1.94E-87	8 SLC38A6
1.23E-85	0.307682614	0.696	0.365	3.96E-81	8 MYO5B
2.36E-109	0.307626311	0.56	0.242	7.59E-105	8 ERI2
7.95E-161	0.307196582	0.366	0.098	2.55E-156	8 LINC01322
3.86E-84	0.306020799	0.564	0.269	1.24E-79	8 DTWD2
7.94E-57	0.30599337	0.873	0.594	2.55E-52	8 WDPCP
6.76E-63	0.305882073	0.932	0.636	2.17E-58	8 EHBP1
7.39E-77	0.305730771	0.818	0.479	2.37E-72	8 ZNRF3
1.40E-150	0.305546037	0.406	0.123	4.48E-146	8 XPC-AS1
3.25E-128	0.305462997	0.385	0.123	1.04E-123	8 DIPK1A
2.97E-147	0.305265651	0.443	0.14	9.53E-143	8 SLCO4C1
1.59E-161	0.305132296	0.348	0.092	5.12E-157	8 ADI1
1.03E-142	0.30421816	0.327	0.09	3.31E-138	8 SELENOP

6.07E-69	0.303794473	0.837	0.53	1.95E-64	8 SMARCC1
1.05E-146	0.303715921	0.352	0.098	3.37E-142	8 AL162411.1
3.06E-81	0.303654115	0.832	0.49	9.83E-77	8 TPT1-AS1
2.10E-46	0.303518405	0.863	0.578	6.73E-42	8 ZNF407
2.29E-242	0.302495827	0.301	0.051	7.35E-238	8 AC034206.1
2.74E-185	0.30244201	0.398	0.105	8.80E-181	8 CLUHP3
8.62E-242	0.302224029	0.371	0.073	2.77E-237	8 LINC01349
3.61E-197	0.302081358	0.3	0.06	1.16E-192	8 SOX9-AS1
2.29E-129	0.301977126	0.521	0.196	7.35E-125	8 PPFIBP2
1.95E-121	0.301817416	0.505	0.192	6.25E-117	8 MEI4
1.66E-299	0.301338441	0.396	0.068	5.33E-295	8 IGFBP4
6.77E-212	0.300780223	0.335	0.068	2.17E-207	8 ILDR2
1.35E-117	0.300543389	0.544	0.225	4.34E-113	8 AK2
6.12E-144	0.300500107	0.432	0.14	1.97E-139	8 ZFYVE1
6.92E-152	0.300307409	0.352	0.097	2.22E-147	8 GFOD2
3.28E-140	0.300092451	0.435	0.141	1.05E-135	8 USP31
1.96E-157	0.29927564	0.379	0.108	6.29E-153	8 AC004918.1
3.01E-113	0.299157609	0.469	0.185	9.68E-109	8 ST13
1.21E-268	0.299057368	0.303	0.047	3.88E-264	8 PDK2
6.56E-194	0.298244484	0.344	0.079	2.11E-189	8 TBC1D10A
3.98E-165	0.298051718	0.312	0.074	1.28E-160	8 GCDH
4.19E-88	0.297639865	0.315	0.113	1.34E-83	8 MT2A
1.14E-191	0.297319121	0.376	0.091	3.67E-187	8 AC002996.1
6.20E-192	0.297205155	0.325	0.071	1.99E-187	8 SLC5A9
0	0.297084561	0.27	0.025	0	8 CYTH4
6.39E-126	0.2969247	0.427	0.149	2.05E-121	8 ATP6V1E1
4.74E-107	0.29689528	0.641	0.299	1.52E-102	8 URGCP-MRPS24
0	0.296591239	0.27	0.029	0	8 ACY3
3.20E-164	0.296355697	0.378	0.104	1.03E-159	8 RORC
1.20E-236	0.296024814	0.504	0.126	3.84E-232	8 FGFR3
0	0.295573013	0.252	0.022	0	8 SLC30A2
2.21E-143	0.295526285	0.562	0.198	7.10E-139	8 TENM4
1.66E-56	0.295156373	0.88	0.6	5.32E-52	8 STAU2
1.10E-131	0.295125467	0.427	0.144	3.54E-127	8 ANKRD18CP
6.28E-156	0.294862644	0.444	0.137	2.02E-151	8 NMRK1
5.39E-139	0.294664193	0.338	0.096	1.73E-134	8 ACAA2
4.33E-197	0.294578555	0.423	0.109	1.39E-192	8 PDPK2P
1.51E-253	0.294434055	0.301	0.047	4.85E-249	8 SLC22A12
6.78E-68	0.293965934	0.709	0.391	2.18E-63	8 DPH6-DT
2.61E-89	0.293953958	0.54	0.253	8.40E-85	8 SGK2
3.24E-53	0.293884222	0.805	0.513	1.04E-48	8 FGF7P3
6.10E-51	0.293804002	0.894	0.627	1.96E-46	8 MLLT10
4.03E-209	0.293518624	0.841	0.312	1.29E-204	8 CCDC200
0	0.293100641	0.286	0.035	0	8 ALPL
1.75E-144	0.292872601	0.435	0.141	5.62E-140	8 NFE2L1
3.24E-210	0.292622075	0.421	0.103	1.04E-205	8 LPAR6
0	0.292617222	0.271	0.029	0	8 DNAJC22
3.17E-204	0.292202508	0.357	0.08	1.02E-199	8 INAVA
2.05E-158	0.291939472	0.39	0.111	6.58E-154	8 XPC
2.16E-99	0.291591379	0.458	0.184	6.95E-95	8 LINC01006
1.17E-105	0.291268749	0.652	0.305	3.75E-101	8 KDM4B

4.40E-104	0.291056372	0.551	0.239	1.41E-99	8 BLCAP
1.50E-299	0.291022802	0.283	0.036	4.83E-295	8 AC068987.2
1.63E-54	0.290910311	0.832	0.547	5.24E-50	8 KIF1B
5.07E-116	0.290757278	0.528	0.214	1.63E-111	8 GTF3C1
3.97E-213	0.290606776	0.288	0.053	1.28E-208	8 MOCS1
5.19E-179	0.290526412	0.336	0.08	1.67E-174	8 CTPS1
8.78E-82	0.290497379	0.497	0.23	2.82E-77	8 ITPK1
9.31E-176	0.28985478	0.401	0.109	2.99E-171	8 GATD3A
8.03E-89	0.289738187	0.744	0.387	2.58E-84	8 CAMK2D
2.31E-192	0.289730716	0.369	0.087	7.43E-188	8 LONRF3
9.19E-76	0.28970539	0.766	0.44	2.95E-71	8 TYW1B
3.08E-103	0.289230486	0.619	0.285	9.89E-99	8 ZNF75D
1.19E-103	0.288789111	0.466	0.19	3.81E-99	8 C6orf89
2.37E-105	0.28870406	0.44	0.172	7.63E-101	8 RTCA
8.05E-87	0.288286554	0.351	0.133	2.59E-82	8 CA3
2.79E-299	0.288211855	0.331	0.05	8.97E-295	8 RENBP
1.40E-271	0.2881837	0.294	0.044	4.49E-267	8 SLC9A3R1
3.20E-76	0.288002513	0.539	0.263	1.03E-71	8 CDKL5
5.21E-258	0.287587777	0.294	0.046	1.67E-253	8 CAPN12
2.93E-47	0.28729623	0.792	0.511	9.40E-43	8 GRAMD2B
2.15E-81	0.287261947	0.752	0.422	6.89E-77	8 FBXL5
5.58E-55	0.286993091	0.855	0.545	1.79E-50	8 TSC22D1
2.93E-171	0.286564637	0.4	0.111	9.41E-167	8 SCAMP2
6.97E-120	0.286275621	0.29	0.082	2.24E-115	8 PIR
5.55E-79	0.285639082	0.771	0.437	1.78E-74	8 AL358113.1
9.43E-58	0.285616916	0.941	0.659	3.03E-53	8 AAK1
2.42E-103	0.285344958	0.369	0.132	7.78E-99	8 CTNNBIP1
1.06E-93	0.285330271	0.549	0.25	3.39E-89	8 IMPA2
1.01E-51	0.285012495	0.31	0.143	3.25E-47	8 NEGR1
5.28E-132	0.284995504	0.356	0.107	1.70E-127	8 SEPSECS-AS1
3.69E-213	0.284907766	0.484	0.126	1.19E-208	8 DNMI
1.57E-99	0.284875267	0.427	0.166	5.03E-95	8 PTPN20
3.21E-81	0.284823426	0.658	0.342	1.03E-76	8 WASL
7.26E-90	0.284749669	0.506	0.225	2.33E-85	8 MTM1
8.02E-112	0.28474236	0.496	0.197	2.58E-107	8 SNTB2
2.21E-77	0.284664108	0.601	0.304	7.08E-73	8 Z98752.3
4.76E-261	0.284564194	0.36	0.065	1.53E-256	8 GGTLC2
5.50E-101	0.284408952	0.541	0.236	1.77E-96	8 UHRF1BP1L
2.97E-212	0.283692368	0.396	0.091	9.54E-208	8 SMTN
1.54E-64	0.283690792	0.767	0.451	4.93E-60	8 MAP2K5
2.68E-129	0.283040768	0.555	0.215	8.60E-125	8 RHPN2
6.84E-174	0.282187962	0.423	0.119	2.20E-169	8 ENPP7P5
2.93E-72	0.282172411	0.495	0.243	9.41E-68	8 MGST3
3.82E-77	0.282033636	0.757	0.425	1.23E-72	8 UBE2R2
2.29E-63	0.282005107	0.894	0.578	7.36E-59	8 LYPLAL1
6.08E-64	0.281682471	0.332	0.141	1.95E-59	8 SORCS2
8.84E-117	0.280587881	0.612	0.258	2.84E-112	8 SCTR
0	0.279684506	0.28	0.032	0	8 CYP4F2
1.04E-116	0.279643624	0.483	0.187	3.34E-112	8 CD164
4.97E-121	0.279605333	0.348	0.11	1.59E-116	8 APIAR
1.08E-212	0.279457729	0.264	0.045	3.45E-208	8 AMACR

3.98E-108	0.279352048	0.514	0.209	1.28E-103	8 PKIG
1.15E-109	0.279135642	0.579	0.249	3.69E-105	8 FBXO28
4.21E-105	0.278976017	0.423	0.159	1.35E-100	8 SNX7
2.51E-100	0.278857824	0.609	0.281	8.05E-96	8 ERGIC1
0	0.278719347	0.253	0.026	0	8 TMEM150B
1.68E-111	0.278677086	0.747	0.345	5.40E-107	8 PPARG
0	0.278651118	0.292	0.037	0	8 DBH-AS1
8.53E-174	0.278570025	0.34	0.083	2.74E-169	8 PHYH
7.95E-152	0.278429447	0.319	0.081	2.55E-147	8 CYP27A1
5.89E-112	0.278134075	0.35	0.114	1.89E-107	8 GUCY2C
1.12E-81	0.278062767	0.675	0.352	3.59E-77	8 LDAH
6.88E-129	0.277877301	0.388	0.127	2.21E-124	8 TMED4
1.62E-58	0.277786498	0.801	0.5	5.19E-54	8 TASP1
0	0.277515937	0.335	0.044	0	8 CTD-3080P12.3
2.12E-89	0.277446641	0.627	0.308	6.80E-85	8 STK38
1.14E-66	0.276943446	0.848	0.52	3.65E-62	8 RNF38
2.58E-114	0.276230743	0.324	0.099	8.27E-110	8 RBM20
6.48E-91	0.276036122	0.376	0.144	2.08E-86	8 LIN54
7.62E-55	0.275477961	0.893	0.608	2.45E-50	8 HERC4
1.70E-119	0.275394961	0.354	0.114	5.47E-115	8 MED21
1.14E-80	0.275383137	0.651	0.337	3.65E-76	8 STAT5B
1.08E-81	0.275022382	0.573	0.281	3.48E-77	8 SNX27
2.71E-180	0.274449207	0.365	0.091	8.69E-176	8 OGG1
4.24E-68	0.273987213	0.78	0.461	1.36E-63	8 RAB7A
6.09E-69	0.273500816	0.763	0.436	1.95E-64	8 PAQR5
5.18E-59	0.272825921	0.874	0.599	1.66E-54	8 HNRNPH1
3.03E-179	0.272759957	0.351	0.086	9.73E-175	8 AC145124.1
1.63E-105	0.272576941	0.54	0.229	5.23E-101	8 NDUFAF6
1.35E-39	0.272386785	0.908	0.671	4.34E-35	8 MON2
0	0.272374251	0.257	0.025	0	8 MYOM3
4.41E-80	0.272293563	0.681	0.356	1.42E-75	8 YAF2
5.17E-160	0.271855716	0.579	0.195	1.66E-155	8 CD200
2.81E-86	0.271442193	0.609	0.3	9.03E-82	8 ILRUN
1.09E-250	0.271389414	0.331	0.058	3.50E-246	8 AKR1C3
1.11E-72	0.270984466	0.626	0.332	3.56E-68	8 XPO7
9.63E-138	0.270768033	0.349	0.102	3.09E-133	8 C6orf201
1.10E-132	0.27069804	0.472	0.166	3.54E-128	8 MTHFD1
1.02E-61	0.269927833	0.596	0.333	3.27E-57	8 SEMA4D
1.16E-72	0.269542046	0.798	0.464	3.73E-68	8 CERT1
8.36E-137	0.269222964	0.444	0.147	2.68E-132	8 LINC00937
1.06E-100	0.269032163	0.256	0.075	3.42E-96	8 UGDH
5.52E-88	0.268614993	0.579	0.277	1.77E-83	8 PPM1A
1.32E-135	0.268554631	0.471	0.164	4.25E-131	8 AC092329.3
2.64E-78	0.268145232	0.72	0.384	8.49E-74	8 PPM1H
5.07E-305	0.267475147	0.253	0.028	1.63E-300	8 MYO7A
1.14E-172	0.267468703	0.259	0.051	3.68E-168	8 HSD3BP4
2.21E-244	0.267392274	0.319	0.055	7.11E-240	8 AC139530.2
1.13E-115	0.26616922	0.333	0.104	3.64E-111	8 TXK
1.89E-236	0.265727412	0.25	0.036	6.08E-232	8 PCA3
2.27E-159	0.26506281	0.317	0.078	7.28E-155	8 GCLM
6.96E-121	0.265024983	0.417	0.144	2.24E-116	8 PTK2B

2.28E-149	0.265012794	0.669	0.267	7.33E-145	8 D2HGDH
1.67E-111	0.264857725	0.568	0.241	5.35E-107	8 ADGRG1
2.62E-124	0.264710517	0.398	0.13	8.41E-120	8 SLC41A2
1.82E-147	0.264537121	0.432	0.134	5.83E-143	8 AC127526.2
1.61E-116	0.264422613	0.28	0.078	5.19E-112	8 CERKL
2.53E-122	0.264119759	0.334	0.101	8.13E-118	8 CAPN13
3.47E-125	0.263815762	0.333	0.1	1.11E-120	8 ZFY
5.55E-33	0.263340469	0.935	0.67	1.78E-28	8 ABLIM1
1.26E-120	0.262717572	0.383	0.128	4.04E-116	8 SLC35D2
4.66E-123	0.262496789	0.39	0.13	1.50E-118	8 SFT2D2
2.26E-104	0.262430067	0.268	0.078	7.25E-100	8 XKR9
3.13E-56	0.262334289	0.616	0.35	1.01E-51	8 JADE1
3.86E-92	0.262213315	0.533	0.241	1.24E-87	8 PRPSAP2
1.18E-98	0.261931658	0.309	0.103	3.80E-94	8 ZNF330
1.78E-136	0.261877239	0.27	0.066	5.72E-132	8 FAM78B
1.45E-88	0.261798112	0.602	0.288	4.67E-84	8 TANGO6
2.11E-83	0.261772185	0.672	0.351	6.76E-79	8 POM121
6.08E-52	0.261636691	0.912	0.632	1.95E-47	8 AC007000.3
9.56E-91	0.261364723	0.6	0.282	3.07E-86	8 BIVM
3.95E-127	0.261140484	0.365	0.115	1.27E-122	8 STRADB
1.45E-81	0.260987204	0.673	0.351	4.66E-77	8 KIAA1671
1.09E-127	0.260918713	0.377	0.119	3.49E-123	8 SLF1
6.09E-179	0.260376209	0.351	0.084	1.96E-174	8 FAM107A
2.83E-202	0.259926017	0.344	0.075	9.10E-198	8 CAMSAP3
1.67E-280	0.259162744	0.252	0.031	5.35E-276	8 DAO
1.63E-109	0.259140848	0.437	0.163	5.22E-105	8 RASSF6
4.91E-62	0.259099756	0.732	0.439	1.58E-57	8 DCAF5
1.35E-153	0.25882436	0.31	0.075	4.33E-149	8 STXBP6
1.19E-169	0.25866314	0.511	0.161	3.82E-165	8 AF228730.5
1.03E-83	0.258493029	0.953	0.581	3.30E-79	8 ADAMTS9
3.43E-139	0.258469298	0.368	0.11	1.10E-134	8 ZSWIM8
1.02E-106	0.257750466	0.317	0.1	3.27E-102	8 TIAM1
2.04E-71	0.257648684	0.64	0.339	6.55E-67	8 ATF7-NPFF
1.18E-102	0.257542935	0.726	0.353	3.78E-98	8 SLC43A2
8.40E-252	0.257160624	0.263	0.038	2.70E-247	8 AHCY
3.64E-48	0.256829689	0.754	0.479	1.17E-43	8 PPP2R2A
1.11E-86	0.256716906	0.658	0.328	3.55E-82	8 ACO2
9.69E-41	0.256372459	0.984	0.771	3.11E-36	8 SETBP1
1.27E-78	0.255569335	0.676	0.355	4.08E-74	8 B4GALT5
1.66E-53	0.255518694	0.765	0.482	5.32E-49	8 RCOR3
6.85E-113	0.25477945	0.548	0.223	2.20E-108	8 ATP11C
2.21E-128	0.254775944	0.253	0.061	7.10E-124	8 SLC7A2
1.59E-69	0.254709229	0.771	0.419	5.09E-65	8 KCNJ3
7.96E-260	0.254404596	0.261	0.035	2.56E-255	8 SPAAR
1.18E-130	0.254087487	0.425	0.142	3.78E-126	8 ADH5
2.74E-75	0.253562514	0.529	0.259	8.78E-71	8 CEPT1
1.18E-147	0.25329071	0.316	0.081	3.78E-143	8 AC026992.2
8.92E-108	0.253080046	0.321	0.103	2.86E-103	8 LYRM1
7.42E-131	0.25273753	0.394	0.127	2.38E-126	8 GPAT4
7.21E-88	0.252704426	0.469	0.203	2.32E-83	8 CLDN12
8.44E-76	0.252314944	0.701	0.379	2.71E-71	8 PIKFYVE

7.00E-119	0.25231373	0.366	0.119	2.25E-114	8 SCRNB3
2.42E-115	0.252273148	0.653	0.293	7.78E-111	8 ZNF69
5.32E-103	0.252058643	0.376	0.135	1.71E-98	8 PPA1
3.15E-81	0.251815547	0.861	0.505	1.01E-76	8 HNF1A-AS1
2.30E-122	0.251586597	0.536	0.211	7.39E-118	8 RCAN1
5.74E-75	0.251514029	0.624	0.328	1.84E-70	8 ERI3
1.51E-75	0.25150122	0.752	0.419	4.84E-71	8 PRKRIP1
1.13E-127	0.251465436	0.364	0.113	3.63E-123	8 DRAM1
2.21E-140	0.251444751	0.301	0.079	7.10E-136	8 AC234917.1
6.20E-74	0.251153028	0.684	0.365	1.99E-69	8 KLHDC10
2.32E-100	0.251107997	0.373	0.133	7.46E-96	8 CA1
3.32E-165	0.250896099	0.32	0.077	1.06E-160	8 C16orf70
1.56E-110	0.250856717	0.333	0.107	5.01E-106	8 CAPN15
0	4.899348417	0.947	0.146	0	9 LDB2
0	4.839112315	0.866	0.055	0	9 EMCN
0	4.619323101	0.944	0.086	0	9 MEIS2
0	4.433080424	0.815	0.04	0	9 FLT1
0	4.262396601	0.94	0.375	0	9 PLPP1
0	4.1777439	0.917	0.026	0	9 PTPRB
0	3.873514887	0.909	0.226	0	9 EPAS1
0	3.625193438	0.817	0.056	0	9 SLCO2A1
0	3.46643764	0.73	0.226	0	9 SYN3
0	3.43745297	0.85	0.163	0	9 TCF4
0	3.33428105	0.904	0.211	0	9 ZEB1
0	3.259414371	0.766	0.053	0	9 RAPGEF4
0	3.242187349	0.807	0.046	0	9 TEK
0	3.118535674	0.514	0.019	0	9 PLAT
0	3.111157708	0.789	0.135	0	9 TMTC1
0	3.037569735	0.856	0.145	0	9 ELMO1
0	2.990886683	0.755	0.077	0	9 SH3RF3
0	2.931354591	0.577	0.066	0	9 CDH13
0	2.927274515	0.706	0.081	0	9 GNA14
0	2.917936137	0.792	0.017	0	9 EGFL7
0	2.89632971	0.905	0.247	0	9 AC098650.1
0	2.847585347	0.318	0.022	0	9 SLC2A3
0	2.846362491	0.692	0.082	0	9 NOSTRIN
1.97E-276	2.808785896	0.884	0.666	6.34E-272	9 SYNE1
0	2.799692308	0.757	0.033	0	9 PECAM1
0	2.7966711	0.672	0.016	0	9 PREX2
1.26E-267	2.77173816	0.618	0.219	4.06E-263	9 NRG3
0	2.750999737	0.518	0.04	0	9 HECW2
0	2.747532231	0.949	0.433	0	9 DOCK4
0	2.740721792	0.871	0.356	0	9 SEC14L1
0	2.654451644	0.764	0.027	0	9 ERG
0	2.652631515	0.663	0.008	0	9 ADGRL4
0	2.640021134	0.503	0.078	0	9 PDGFD
0	2.623754634	0.899	0.138	0	9 ST6GALNAC3
0	2.603197812	0.699	0.057	0	9 EBF1
0	2.507733518	0.885	0.401	0	9 ASAP1
0	2.499309718	0.586	0.121	0	9 CACNA1C
0	2.495000773	0.809	0.176	0	9 PRKCH

0	2.494336513	0.734	0.086	0	9 ARHGAP31
0	2.485443509	0.984	0.75	0	9 PTPRM
5.47E-118	2.479516742	0.592	0.365	1.76E-113	9 CHR3
0	2.475677546	0.61	0.142	0	9 PIK3R3
0	2.445495631	0.758	0.073	0	9 SHANK3
0	2.434644026	0.288	0.024	0	9 GPM6A
0	2.42547459	0.662	0.089	0	9 RAPGEF5
0	2.425372842	0.678	0.196	0	9 KALRN
0	2.412800812	0.881	0.505	0	9 RASAL2
0	2.374665822	0.74	0.23	0	9 SNED1
3.37E-239	2.354882517	0.742	0.382	1.08E-234	9 PITPNC1
0	2.353613206	0.796	0.356	0	9 ARHGAP26
1.08E-168	2.33796964	0.412	0.125	3.46E-164	9 AKAP12
0	2.322802209	0.653	0.099	0	9 EML1
4.98E-278	2.32219022	0.887	0.623	1.60E-273	9 PBX1
3.73E-171	2.299844336	0.627	0.331	1.20E-166	9 PLPP3
0	2.292433574	0.564	0.032	0	9 RUNX1T1
0	2.281934179	0.74	0.199	0	9 MEF2C
0	2.280826319	0.717	0.269	0	9 AC007319.1
2.92E-208	2.277371276	0.319	0.066	9.38E-204	9 ADAMTS6
0	2.270508294	0.331	0.034	0	9 ITGA8
4.71E-299	2.223909278	0.339	0.054	1.51E-294	9 EMP1
0	2.202760726	0.779	0.156	0	9 FBXL7
0	2.201748558	0.556	0.143	0	9 AC119674.1
0	2.180821853	0.743	0.339	0	9 DOCK9
6.82E-305	2.160279254	0.808	0.392	2.19E-300	9 GRB10
0	2.153063681	0.636	0.1	0	9 RBMS3
0	2.149732497	0.466	0.03	0	9 BTNL9
0	2.137109744	0.509	0.026	0	9 GFOD1
1.25E-305	2.106537846	0.673	0.245	4.03E-301	9 PLEKHG1
2.52E-264	2.094552154	0.644	0.247	8.10E-260	9 RARB
0	2.093559595	0.586	0.05	0	9 HEG1
0	2.073903533	0.91	0.575	0	9 SPTBN1
0	2.070085633	0.489	0.104	0	9 TIMP3
8.37E-285	2.055192406	0.717	0.322	2.69E-280	9 CDK17
0	2.046814198	0.92	0.59	0	9 UTRN
0	2.038402392	0.567	0.036	0	9 FLII
5.18E-230	2.032790417	0.284	0.049	1.66E-225	9 AC007100.1
1.68E-301	2.031608961	0.862	0.5	5.38E-297	9 TACC1
7.18E-233	2.025639793	0.711	0.359	2.31E-228	9 TGFB2
0	2.020937806	0.665	0.231	0	9 HIVEP3
4.10E-241	2.019560765	0.717	0.358	1.32E-236	9 PIP4K2A
0	2.015640458	0.374	0.061	0	9 ADGRB3
9.20E-198	1.994691738	0.505	0.183	2.95E-193	9 CMTM8
0	1.990164592	0.621	0.148	0	9 DLC1
0	1.960733775	0.613	0.13	0	9 ETS1
0	1.943082144	0.558	0.058	0	9 ENG
4.94E-293	1.935244237	0.323	0.049	1.59E-288	9 VEGFC
0	1.93137472	0.533	0.016	0	9 AC025569.1
3.67E-258	1.915050671	0.564	0.19	1.18E-253	9 ITGA9
1.89E-164	1.90158608	0.524	0.224	6.07E-160	9 SORBS1

0	1.869598666	0.823	0.424	0	9 SASH1
0	1.867983078	0.704	0.245	0	9 KLF7
0	1.864869926	0.567	0.037	0	9 LIMS2
0	1.85183652	0.344	0.01	0	9 CAVIN2
0	1.845874165	0.289	0.004	0	9 AC010737.1
0	1.838531284	0.416	0.045	0	9 PDLIM1
0	1.83757165	0.45	0.04	0	9 EFN2
0	1.83574124	0.522	0.075	0	9 CHST11
8.16E-255	1.827279061	0.752	0.38	2.62E-250	9 DN3
1.73E-303	1.825511768	0.498	0.122	5.54E-299	9 NCALD
0	1.819208511	0.596	0.078	0	9 FGD5
1.45E-303	1.815532946	0.899	0.648	4.67E-299	9 APP
1.89E-291	1.809419918	0.761	0.307	6.06E-287	9 LDLRAD4
1.60E-272	1.809346384	0.457	0.107	5.15E-268	9 IGF2
1.96E-288	1.807177257	0.945	0.826	6.28E-284	9 PTPRG
2.38E-128	1.806489796	0.692	0.528	7.64E-124	9 ANKRD1A
2.70E-199	1.802666261	0.619	0.274	8.66E-195	9 SEMA6A
0	1.794933573	0.513	0.074	0	9 CHN1
0	1.766316663	0.482	0.052	0	9 DYSF
0	1.748474159	0.52	0.037	0	9 PREX1
0	1.73797118	0.476	0.034	0	9 HIF3A
0	1.734552603	0.394	0.046	0	9 PALMD
0	1.727950189	0.53	0.126	0	9 LIPE-AS1
3.37E-211	1.718542616	0.717	0.333	1.08E-206	9 ST6GAL1
1.13E-137	1.714984041	0.587	0.298	3.64E-133	9 PALM2AKAP2
0	1.712969341	0.526	0.087	0	9 NAV1
0	1.709162536	0.317	0.008	0	9 CRHBP
1.56E-216	1.69463206	0.511	0.17	5.01E-212	9 PELI1
2.72E-230	1.692257764	0.719	0.366	8.75E-226	9 PEAK1
1.12E-252	1.684872598	0.659	0.279	3.58E-248	9 RBMS2
5.73E-230	1.671086647	0.799	0.515	1.84E-225	9 BMP2
0	1.664228648	0.421	0.014	0	9 RAMP3
4.38E-302	1.660599652	0.618	0.2	1.41E-297	9 SERPINE6
4.13E-246	1.652445288	0.552	0.172	1.33E-241	9 PCED1B
0	1.651291727	0.597	0.086	0	9 FYN
0	1.632838073	0.401	0.013	0	9 KLF2
9.01E-182	1.631852048	0.698	0.413	2.89E-177	9 IL6ST
5.41E-211	1.624770715	0.38	0.093	1.74E-206	9 ZNF521
0	1.623283899	0.472	0.056	0	9 IL4R
0	1.600623211	0.53	0.101	0	9 IRAK3
0	1.59935447	0.447	0.04	0	9 HLA-DRB1
0	1.59901518	0.391	0.066	0	9 STOM
2.38E-307	1.587296655	0.4	0.074	7.64E-303	9 CYR1-AS1
0	1.581544203	0.459	0.089	0	9 LHFPL6
6.08E-273	1.581202613	0.438	0.102	1.95E-268	9 HSPG2
0	1.569301291	0.441	0.019	0	9 C22orf34
0	1.562935743	0.41	0.014	0	9 SLC9A3R2
1.52E-293	1.559868451	0.407	0.08	4.88E-289	9 ENTPD1
7.45E-274	1.553265085	0.89	0.625	2.39E-269	9 AKT3
0	1.550213872	0.257	0.026	0	9 PTPRR
9.19E-83	1.54888435	0.306	0.119	2.95E-78	9 NAV3

0	1.548133956	0.357	0.02	0	9 IFI44L
6.59E-86	1.544663198	0.474	0.266	2.12E-81	9 NHSL1
1.13E-246	1.541263305	0.499	0.144	3.64E-242	9 FAT4
0	1.53555207	0.815	0.159	0	9 ADGRF5
0	1.535517695	0.452	0.007	0	9 NOTCH4
1.48E-242	1.529670577	0.777	0.34	4.76E-238	9 CNTNAP3B
6.89E-115	1.528542372	0.626	0.412	2.21E-110	9 TBC1D8
5.15E-246	1.523939196	0.325	0.059	1.65E-241	9 KCNMB4
0	1.52181579	0.435	0.043	0	9 IFI44
6.65E-187	1.516639672	0.448	0.147	2.14E-182	9 AC119674.2
0	1.513558488	0.463	0.02	0	9 ARAP3
4.48E-264	1.508179291	0.48	0.124	1.44E-259	9 NXN
5.30E-162	1.503882877	0.735	0.535	1.70E-157	9 PIK3C2A
4.55E-244	1.499952055	0.599	0.214	1.46E-239	9 ZBTB46
9.95E-84	1.498287558	0.662	0.523	3.20E-79	9 LIFR
1.77E-126	1.481073904	0.42	0.162	5.69E-122	9 SGK1
1.31E-116	1.479120166	0.254	0.069	4.21E-112	9 RXFP1
6.37E-174	1.479024652	0.742	0.464	2.05E-169	9 FCHSD2
2.29E-153	1.478299754	0.792	0.61	7.36E-149	9 RBMS1
0	1.471843467	0.403	0.058	0	9 CD109
7.55E-199	1.463929583	0.46	0.146	2.42E-194	9 FAR2
5.31E-226	1.462539947	0.408	0.102	1.70E-221	9 SMAD6
4.16E-22	1.462447273	0.412	0.336	1.34E-17	9 EXOC6
0	1.445327412	0.325	0.005	0	9 KDR
3.57E-185	1.443874645	0.642	0.307	1.15E-180	9 PARP14
4.36E-106	1.434104997	0.647	0.425	1.40E-101	9 CMAHP
0	1.431025641	0.361	0.03	0	9 CEACAM1
7.17E-113	1.427785501	0.541	0.285	2.30E-108	9 FUT8
0	1.426018091	0.448	0.063	0	9 ELK3
0	1.425606145	0.397	0.025	0	9 HLA-DRB5
2.11E-199	1.421956975	0.578	0.226	6.77E-195	9 EVA1C
0	1.404018279	0.385	0.008	0	9 ADCY4
1.15E-179	1.403762761	0.417	0.13	3.70E-175	9 RASGRP3
0	1.403010238	0.468	0.078	0	9 HLA-E
0	1.398966799	0.452	0.046	0	9 IFI16
0	1.397845023	0.405	0.011	0	9 SH2D3C
5.04E-271	1.369264396	0.717	0.287	1.62E-266	9 SRGAP2
8.84E-182	1.361439766	0.818	0.505	2.84E-177	9 NFIA
3.41E-70	1.359976082	0.676	0.557	1.10E-65	9 ADGRL2
4.19E-153	1.355091033	0.61	0.312	1.35E-148	9 KLHL5
1.44E-81	1.353976176	0.542	0.356	4.62E-77	9 CNN3
0	1.351728708	0.361	0.005	0	9 CD34
0	1.347562747	0.499	0.103	0	9 PODXL
0	1.347454458	0.38	0.013	0	9 PLXND1
2.01E-60	1.34726664	0.419	0.248	6.44E-56	9 PGM5
4.00E-62	1.346144182	0.279	0.116	1.28E-57	9 MT2A
1.25E-115	1.337567558	0.651	0.412	4.02E-111	9 GSE1
1.04E-118	1.334020569	0.667	0.439	3.32E-114	9 RIN2
1.55E-118	1.331016229	0.731	0.554	4.99E-114	9 RALGAPA2
0	1.328513494	0.35	0.016	0	9 TAMALIN
2.37E-61	1.314875096	0.479	0.275	7.60E-57	9 PCSK5

1.65E-154	1.310167081	0.698	0.428	5.30E-150	9 SP100
1.28E-186	1.303886135	0.383	0.105	4.11E-182	9 ETS2
8.79E-207	1.30229979	0.871	0.685	2.82E-202	9 GNAQ
0	1.301289855	0.379	0.019	0	9 AFAP1L1
0	1.301285557	0.352	0.019	0	9 ITPRIP
6.20E-106	1.298823222	0.679	0.504	1.99E-101	9 ARGLU1
0	1.29848786	0.397	0.066	0	9 FBN1
1.22E-146	1.29693518	0.62	0.33	3.92E-142	9 MAP4K4
7.90E-165	1.294848533	0.5	0.2	2.54E-160	9 SWAP70
3.53E-169	1.294100754	0.35	0.094	1.13E-164	9 EPHA4
0	1.29354761	0.335	0.01	0	9 GIMAP8
1.37E-90	1.289073125	0.523	0.31	4.41E-86	9 YES1
9.23E-146	1.288823876	0.489	0.198	2.97E-141	9 OSMR
7.35E-183	1.285663752	0.544	0.2	2.36E-178	9 TCF7L1
1.71E-111	1.285261681	0.64	0.39	5.51E-107	9 STOX2
0	1.279573573	0.317	0.009	0	9 ZNF366
0	1.275795692	0.292	0.026	0	9 CFAP161
2.07E-32	1.272871313	0.633	0.589	6.63E-28	9 MIR99AHG
8.46E-106	1.271932415	0.572	0.337	2.72E-101	9 ITGA1
0	1.270693911	0.329	0.012	0	9 RHOJ
0	1.269424484	0.315	0.015	0	9 CLEC1A
1.98E-121	1.269073208	0.659	0.443	6.37E-117	9 NCOA3
0	1.263686832	0.298	0.016	0	9 FLT4
1.45E-100	1.262150758	0.71	0.576	4.64E-96	9 PIAS1
1.23E-93	1.261423862	0.607	0.413	3.96E-89	9 RAPGEF1
3.00E-13	1.258831939	0.417	0.38	9.63E-09	9 ATP13A3
0	1.258060843	0.35	0.054	0	9 ID1
0	1.256912241	0.342	0.019	0	9 SLC5A4-AS1
2.03E-177	1.256738209	0.547	0.206	6.53E-173	9 SLCO3A1
1.06E-78	1.254854125	0.563	0.373	3.40E-74	9 ANO6
2.72E-130	1.253387724	0.583	0.316	8.73E-126	9 PTPN12
2.41E-72	1.250651035	0.487	0.282	7.75E-68	9 DHRS3
4.90E-163	1.246926045	0.851	0.636	1.57E-158	9 TTC28
1.96E-129	1.244632695	0.747	0.531	6.31E-125	9 PPFIBP1
9.43E-210	1.242319884	0.454	0.129	3.03E-205	9 EPB41L2
5.19E-92	1.242137974	0.543	0.327	1.67E-87	9 ZNF438
4.32E-146	1.239363113	0.554	0.261	1.39E-141	9 TBCD
4.23E-162	1.238921233	0.336	0.091	1.36E-157	9 WARS1
1.81E-87	1.236886392	0.533	0.314	5.80E-83	9 RASGRF2
6.70E-91	1.235386268	0.643	0.475	2.15E-86	9 HMBOX1
2.73E-192	1.23212896	0.431	0.122	8.78E-188	9 SH3BP5
0	1.232108234	0.38	0.04	0	9 NLRP1
0	1.228108444	0.326	0.013	0	9 PCAT19
2.82E-170	1.227567296	0.28	0.059	9.07E-166	9 AC007744.1
0	1.226540201	0.345	0.033	0	9 SPAAR
7.41E-182	1.224503695	0.893	0.653	2.38E-177	9 LIMCH1
9.93E-142	1.223788941	0.341	0.103	3.19E-137	9 F8
1.56E-118	1.223582593	0.416	0.168	5.00E-114	9 PLSCR4
6.10E-135	1.213058144	0.758	0.543	1.96E-130	9 EPB41L4A
1.76E-112	1.206033194	0.446	0.196	5.66E-108	9 CD9
0	1.205827401	0.254	0.005	0	9 LRRC32

1.88E-81	1.189175173	0.53	0.326	6.03E-77	9 RPS6KA2
0	1.185947312	0.307	0.023	0	9 PALD1
2.60E-89	1.174890036	0.603	0.408	8.33E-85	9 CTNNB1
0	1.174851432	0.323	0.003	0	9 ROBO4
4.83E-158	1.174029625	0.444	0.158	1.55E-153	9 DOCK6
1.01E-169	1.172993841	0.867	0.539	3.24E-165	9 ZBTB16
9.17E-197	1.16899905	0.413	0.116	2.94E-192	9 RNF144A
1.76E-75	1.168500804	0.44	0.249	5.67E-71	9 PDIA5
6.55E-168	1.166077067	0.641	0.276	2.10E-163	9 CNTNAP3P2
8.32E-104	1.163816678	0.412	0.181	2.67E-99	9 CTTNBP2NL
1.35E-79	1.162272542	0.534	0.324	4.32E-75	9 ANKRD44
0	1.156476934	0.272	0.026	0	9 LINC02384
3.29E-171	1.15045277	0.421	0.128	1.06E-166	9 CAMK1D
3.43E-100	1.141836695	0.566	0.322	1.10E-95	9 MCC
0	1.14104098	0.323	0.039	0	9 SMAD9
1.90E-122	1.136823211	0.734	0.528	6.10E-118	9 DPYD
2.25E-103	1.132603667	0.586	0.358	7.23E-99	9 KIAA1671
2.47E-115	1.131177136	0.715	0.506	7.94E-111	9 TANC1
4.59E-157	1.130373999	0.457	0.166	1.48E-152	9 ADARB1
1.23E-228	1.127184803	0.255	0.038	3.95E-224	9 PTPRE
7.02E-65	1.125147757	0.426	0.228	2.25E-60	9 RGL1
1.05E-54	1.124953239	0.546	0.411	3.37E-50	9 AF241726.1
1.36E-231	1.123875917	0.326	0.063	4.37E-227	9 AC093423.2
0	1.1225325	0.277	0.006	0	9 TMEM255B
0	1.121230667	0.308	0.014	0	9 TOX2
1.93E-51	1.118804385	0.336	0.175	6.18E-47	9 DOK6
1.84E-73	1.117686834	0.71	0.566	5.91E-69	9 WWTR1
2.11E-148	1.114553578	0.346	0.098	6.79E-144	9 C1orf21
2.06E-151	1.113240894	0.546	0.232	6.62E-147	9 ABR
1.21E-197	1.10927728	0.331	0.075	3.88E-193	9 DGKE
2.00E-96	1.108874415	0.664	0.432	6.44E-92	9 NCOA7
4.08E-21	1.104604308	0.441	0.363	1.31E-16	9 NTN4
1.44E-88	1.104581508	0.55	0.311	4.62E-84	9 DUSP1
0	1.100325738	0.289	0.02	0	9 BOC
1.60E-82	1.100184152	0.648	0.471	5.15E-78	9 RAP1B
0	1.098687656	0.324	0.013	0	9 SHE
1.07E-91	1.096245471	0.679	0.497	3.44E-87	9 RFX3
3.90E-70	1.095614674	0.367	0.185	1.25E-65	9 MEF2C-AS1
3.19E-51	1.093944114	0.492	0.355	1.03E-46	9 AL136531.2
5.96E-101	1.092809441	0.624	0.369	1.92E-96	9 FRMD4B
1.44E-132	1.090671286	0.252	0.061	4.62E-128	9 NUAK1
0	1.089757828	0.3	0.004	0	9 CDH5
1.14E-131	1.089216889	0.349	0.111	3.67E-127	9 JAM3
7.42E-127	1.088828167	0.283	0.077	2.38E-122	9 CPAMD8
1.13E-129	1.086158517	0.823	0.685	3.63E-125	9 MEF2A
4.91E-189	1.083427163	0.632	0.27	1.58E-184	9 SRGAP2C
6.62E-91	1.082095881	0.565	0.338	2.13E-86	9 PRSS23
2.09E-97	1.072638499	0.354	0.142	6.70E-93	9 EHD4
0	1.069259968	0.282	0.008	0	9 GPSM3
0	1.064674861	0.324	0.044	0	9 ZNF423
5.80E-185	1.064100535	0.608	0.252	1.86E-180	9 SRGAP2B

4.40E-118	1.061090807	0.823	0.692	1.41E-113	9 CDC42BPA
1.25E-157	1.056664991	0.459	0.151	4.00E-153	9 PPP1R16B
1.46E-114	1.055444327	0.436	0.179	4.70E-110	9 PLXNA2
3.95E-163	1.054568176	0.329	0.083	1.27E-158	9 GRK5
0	1.054074838	0.339	0.047	0	9 INPP5D
6.44E-67	1.052570453	0.492	0.314	2.07E-62	9 KLF9
8.09E-98	1.044861997	0.591	0.359	2.60E-93	9 FNBP1
2.62E-226	1.044582399	0.332	0.066	8.42E-222	9 LRRC8C
6.11E-216	1.043513269	0.312	0.06	1.96E-211	9 CD74
3.60E-98	1.041545675	0.431	0.196	1.16E-93	9 ATP2B4
1.27E-119	1.036883281	0.262	0.069	4.07E-115	9 RIPOR2
0	1.036112064	0.279	0.011	0	9 RASIP1
3.49E-89	1.032648666	0.444	0.221	1.12E-84	9 ABCC1
4.44E-88	1.029652652	0.25	0.081	1.43E-83	9 AC002070.1
1.26E-59	1.028510976	0.273	0.116	4.06E-55	9 ANKRD55
2.30E-70	1.020705116	0.595	0.424	7.38E-66	9 CEP112
5.72E-213	1.018271495	0.397	0.097	1.84E-208	9 A2M
1.44E-84	1.016719875	0.663	0.505	4.61E-80	9 RB1
0	1.014067687	0.271	0.009	0	9 PDE2A
0	1.013927869	0.311	0.016	0	9 XAF1
0	1.010841757	0.292	0.005	0	9 NOVA2
7.59E-190	1.009252819	0.788	0.342	2.44E-185	9 PLCB1
1.13E-123	1.003018837	0.388	0.142	3.64E-119	9 AMOTL1
8.29E-95	1.002394932	0.566	0.327	2.66E-90	9 LIMA1
1.49E-45	0.999521785	0.604	0.519	4.78E-41	9 ITSN2
3.46E-212	0.991215397	0.252	0.04	1.11E-207	9 AC090630.1
2.53E-53	0.987538293	0.539	0.389	8.14E-49	9 PHLPP1
2.24E-125	0.986893709	0.52	0.225	7.20E-121	9 CNTNAP3
1.73E-116	0.985431596	0.439	0.181	5.55E-112	9 NEDD4
8.50E-270	0.984436603	0.316	0.05	2.73E-265	9 PIK3C2B
4.73E-172	0.984170887	0.317	0.076	1.52E-167	9 FMNL3
2.36E-67	0.981770962	0.454	0.27	7.58E-63	9 CNST
3.42E-89	0.980338584	0.729	0.593	1.10E-84	9 RBFOX2
0	0.980127417	0.252	0.004	0	9 ARHGEF15
3.50E-47	0.976676478	0.556	0.437	1.12E-42	9 KIF13A
2.01E-71	0.976104139	0.55	0.373	6.45E-67	9 GARRE1
7.32E-81	0.974881776	0.262	0.089	2.35E-76	9 MAP2
1.20E-34	0.974307921	0.592	0.506	3.86E-30	9 TANC2
1.16E-58	0.97241062	0.45	0.275	3.73E-54	9 PLSCR1
6.10E-99	0.966570577	0.396	0.171	1.96E-94	9 CARD8
4.68E-152	0.965824164	0.442	0.153	1.50E-147	9 SRGAP2D
2.22E-71	0.964096343	0.755	0.656	7.14E-67	9 HIPK2
4.71E-58	0.95874091	0.647	0.504	1.51E-53	9 ARHGEF3
2.57E-64	0.954210869	0.623	0.47	8.25E-60	9 ETV6
1.80E-76	0.946975153	0.615	0.425	5.78E-72	9 CPNE8
7.17E-92	0.944610548	0.357	0.147	2.30E-87	9 LIMK2
4.35E-97	0.943787146	0.484	0.222	1.40E-92	9 CLIC4
1.59E-37	0.94364842	0.329	0.19	5.12E-33	9 ZFP36
0	0.943034878	0.277	0.024	0	9 KANK3
4.71E-35	0.94211494	0.525	0.375	1.51E-30	9 SOX5
2.98E-119	0.94203349	0.315	0.099	9.57E-115	9 DDX60

1.98E-98	0.939416559	0.714	0.502	6.35E-94	9 UACA
3.75E-60	0.935565346	0.494	0.327	1.20E-55	9 RIMKLB
1.84E-220	0.932200705	0.305	0.057	5.91E-216	9 STARD9
3.97E-28	0.930965518	0.256	0.146	1.27E-23	9 RYR3
1.56E-54	0.930930897	0.626	0.515	5.01E-50	9 DNAJC1
1.10E-119	0.929875783	0.382	0.139	3.53E-115	9 TNS2
3.50E-72	0.926966407	0.544	0.313	1.12E-67	9 NRP1
0	0.922844422	0.258	0.005	0	9 TIE1
1.96E-68	0.914642995	0.468	0.266	6.29E-64	9 MSN
1.36E-67	0.913629797	0.762	0.651	4.35E-63	9 PRKCE
6.94E-69	0.911384938	0.433	0.231	2.23E-64	9 ATP11C
3.50E-05	0.906328786	0.483	0.627	1	9 KCNIP4
3.07E-55	0.905721663	0.371	0.204	9.85E-51	9 CYTH3
2.40E-22	0.903866326	0.582	0.533	7.70E-18	9 VGLL4
9.23E-173	0.903787992	0.308	0.071	2.96E-168	9 CIITA
8.09E-46	0.90302415	0.377	0.227	2.60E-41	9 GSN
2.82E-84	0.90204294	0.397	0.183	9.06E-80	9 DENND3
1.78E-85	0.90177724	0.725	0.601	5.72E-81	9 FRYL
4.70E-86	0.900501781	0.721	0.564	1.51E-81	9 CFLAR
1.37E-36	0.900353358	0.583	0.481	4.39E-32	9 FMNL2
2.92E-77	0.900112581	0.875	0.833	9.39E-73	9 JMJD1C
8.42E-65	0.900089512	0.558	0.364	2.70E-60	9 DLEU2
1.25E-60	0.899683618	0.593	0.451	4.01E-56	9 RNF115
1.21E-42	0.899318529	0.48	0.347	3.89E-38	9 ADIPOR2
2.37E-104	0.895651597	0.543	0.269	7.61E-100	9 CALD1
1.02E-133	0.891271992	0.251	0.059	3.28E-129	9 DISC1
3.42E-39	0.889836024	0.27	0.143	1.10E-34	9 NUCB2
3.78E-63	0.888687117	0.612	0.424	1.21E-58	9 COL4A2
1.92E-30	0.887886036	0.303	0.186	6.18E-26	9 TACR1
6.28E-85	0.887610133	0.273	0.092	2.02E-80	9 MSRB3
1.51E-45	0.886508047	0.661	0.571	4.85E-41	9 MTSS1
1.05E-214	0.884550573	0.334	0.064	3.38E-210	9 MEG3
1.13E-71	0.882244464	0.283	0.11	3.63E-67	9 AR
9.68E-118	0.880556083	0.346	0.117	3.11E-113	9 HLA-B
1.00E-131	0.880105097	0.303	0.087	3.22E-127	9 AP1S2
0	0.876437791	0.258	0.011	0	9 JCAD
1.43E-51	0.876386708	0.764	0.681	4.60E-47	9 PLXDC2
2.31E-87	0.875564862	0.73	0.547	7.43E-83	9 ARHGAP29
7.28E-107	0.872279909	0.367	0.139	2.34E-102	9 HLA-C
1.62E-37	0.870295949	0.326	0.188	5.19E-33	9 PRELID2
1.33E-83	0.869510636	0.344	0.147	4.27E-79	9 WWC3
2.62E-250	0.869000526	0.252	0.034	8.40E-246	9 TMOD1
1.97E-88	0.866815116	0.431	0.208	6.32E-84	9 TSPAN14
0	0.866470899	0.266	0.006	0	9 APOL3
4.06E-47	0.863177968	0.303	0.151	1.30E-42	9 SIPA1L2
6.72E-79	0.862710952	0.75	0.637	2.16E-74	9 QKI
6.43E-54	0.862143333	0.474	0.299	2.06E-49	9 NR3C1
0	0.862059323	0.256	0.018	0	9 CALCRL
4.72E-43	0.859337987	0.643	0.528	1.51E-38	9 MAML3
7.97E-73	0.857222355	0.691	0.559	2.56E-68	9 KAT6A
4.74E-99	0.855356508	0.298	0.101	1.52E-94	9 GFOD2

2.70E-71	0.855254933	0.443	0.247	8.69E-67	9 IRF1-AS1
3.01E-155	0.853469217	0.278	0.063	9.66E-151	9 IFITM3
1.78E-62	0.851948897	0.735	0.651	5.72E-58	9 HERC1
6.61E-46	0.85072319	0.618	0.491	2.12E-41	9 SH3D19
3.67E-67	0.850620409	0.463	0.247	1.18E-62	9 TGFBR3
3.78E-47	0.847435431	0.591	0.474	1.22E-42	9 SNRK
3.40E-50	0.844411468	0.297	0.146	1.09E-45	9 FGFR1
6.22E-58	0.84404912	0.521	0.331	2.00E-53	9 AL139807.1
4.86E-80	0.839637446	0.372	0.17	1.56E-75	9 B2M
8.59E-23	0.838444708	0.456	0.395	2.76E-18	9 MTREX
1.10E-82	0.834983858	0.304	0.118	3.54E-78	9 INPP1
1.28E-31	0.832229809	0.327	0.201	4.10E-27	9 RNF144B
3.30E-94	0.831351877	0.334	0.122	1.06E-89	9 SLC9A9
3.43E-30	0.831105851	0.285	0.169	1.10E-25	9 RFX2
3.10E-47	0.826456098	0.504	0.351	9.96E-43	9 PPP1R13B
4.02E-37	0.825863305	0.469	0.321	1.29E-32	9 COL4A1
2.87E-93	0.824548383	0.36	0.142	9.21E-89	9 ARHGAP27P1-B
1.27E-48	0.820567922	0.429	0.266	4.07E-44	9 RESF1
1.37E-99	0.818909565	0.355	0.133	4.41E-95	9 PARVB
2.97E-57	0.812076264	0.556	0.36	9.54E-53	9 DGKH
7.11E-20	0.810748934	0.28	0.19	2.28E-15	9 NR2F1-AS1
5.16E-49	0.810708612	0.431	0.268	1.66E-44	9 VOPPI
5.82E-35	0.808960187	0.332	0.208	1.87E-30	9 PPM1D
5.07E-55	0.808000821	0.67	0.552	1.63E-50	9 FOXN3
3.53E-107	0.807779584	0.258	0.073	1.13E-102	9 RASSF3
3.57E-31	0.805545745	0.378	0.26	1.15E-26	9 CDIN1
3.15E-77	0.804981722	0.282	0.106	1.01E-72	9 DDX60L
1.93E-36	0.800779741	0.395	0.256	6.21E-32	9 CHSY1
1.30E-184	0.798715636	0.254	0.046	4.18E-180	9 ARHGEF6
5.22E-53	0.795894654	0.423	0.261	1.68E-48	9 IKBKB
5.83E-54	0.79307558	0.399	0.223	1.87E-49	9 MDFIC
5.36E-39	0.792737689	0.537	0.425	1.72E-34	9 SMURF2
5.75E-63	0.790806016	0.364	0.182	1.85E-58	9 GAS6
4.17E-113	0.787598108	0.298	0.09	1.34E-108	9 DPYSL2
7.12E-49	0.787123934	0.388	0.23	2.29E-44	9 PXN
3.51E-52	0.784434974	0.283	0.134	1.13E-47	9 MYO1C
2.38E-40	0.779277443	0.251	0.12	7.64E-36	9 LTBP1
4.23E-49	0.775962751	0.718	0.66	1.36E-44	9 CCNY
4.51E-47	0.775743995	0.275	0.135	1.45E-42	9 APOLD1
1.89E-45	0.773816702	0.748	0.694	6.06E-41	9 AKAP13
9.23E-45	0.772877896	0.519	0.383	2.96E-40	9 FCHO2
5.87E-34	0.772707602	0.356	0.228	1.89E-29	9 ATP8B1
1.11E-43	0.768872564	0.569	0.452	3.57E-39	9 SENP7
9.36E-60	0.767193822	0.667	0.518	3.01E-55	9 ANKRD36
7.88E-33	0.764135885	0.425	0.292	2.53E-28	9 RANBP17
2.80E-107	0.763925721	0.883	0.787	8.99E-103	9 PTK2
7.07E-50	0.759318983	0.652	0.547	2.27E-45	9 NUTM2A-AS1
2.74E-23	0.756367559	0.471	0.36	8.81E-19	9 LMCD1-AS1
1.56E-84	0.755010944	0.255	0.084	5.02E-80	9 SAMD9L
5.02E-33	0.751955616	0.387	0.248	1.61E-28	9 KIF26B
1.12E-77	0.751656446	0.304	0.121	3.61E-73	9 GNB4

3.86E-60	0.747379161	0.256	0.103	1.24E-55	9 AMYH02020865.
1.24E-35	0.746929347	0.526	0.412	3.98E-31	9 CYTH1
5.36E-34	0.746752106	0.474	0.364	1.72E-29	9 ODF2L
4.21E-77	0.74504942	0.285	0.107	1.35E-72	9 AFAP1
6.35E-71	0.74499039	0.731	0.476	2.04E-66	9 FKBP5
1.94E-90	0.741397823	0.269	0.088	6.22E-86	9 ARRB1
2.01E-52	0.740634869	0.303	0.15	6.46E-48	9 IFNGR1
5.00E-59	0.739428516	0.286	0.126	1.61E-54	9 MIS18BP1
7.55E-61	0.735826359	0.342	0.166	2.43E-56	9 ECE1
3.32E-46	0.734812764	0.567	0.388	1.07E-41	9 ZDHC14
7.52E-37	0.733472712	0.506	0.396	2.42E-32	9 WASF2
3.73E-30	0.731685457	0.414	0.304	1.20E-25	9 MARK4
1.84E-51	0.731354005	0.613	0.459	5.90E-47	9 ANKRD36B
4.78E-38	0.731121061	0.381	0.246	1.54E-33	9 SKIL
4.84E-52	0.72982085	0.887	0.772	1.55E-47	9 ARL15
2.01E-62	0.729267285	0.672	0.506	6.47E-58	9 ANKRD36C
8.41E-34	0.728132752	0.259	0.136	2.70E-29	9 TCIM
3.35E-37	0.724780172	0.644	0.546	1.08E-32	9 PDLIM5
8.68E-59	0.723630008	0.339	0.167	2.79E-54	9 FZD4
1.24E-48	0.721101187	0.314	0.162	3.99E-44	9 HDGFL3
2.78E-64	0.718973038	0.342	0.159	8.93E-60	9 SH3KBP1
4.22E-74	0.718444333	0.79	0.724	1.35E-69	9 NKTR
3.92E-30	0.717337971	0.43	0.319	1.26E-25	9 ALG13
4.58E-40	0.7172756	0.291	0.153	1.47E-35	9 EEPD1
1.18E-100	0.716934531	0.275	0.086	3.80E-96	9 KIAA1841
3.38E-34	0.716137001	0.541	0.443	1.09E-29	9 TPTEP2-CSNK11
5.25E-41	0.715001115	0.392	0.239	1.68E-36	9 JAZF1
1.68E-39	0.714380377	0.331	0.192	5.39E-35	9 CD58
2.91E-49	0.713525573	0.641	0.542	9.34E-45	9 SMCHD1
1.63E-47	0.713167575	0.292	0.147	5.23E-43	9 SDCBP
6.42E-39	0.712203642	0.333	0.197	2.06E-34	9 IPO11
5.94E-46	0.711074135	0.379	0.221	1.91E-41	9 AC019257.8
1.43E-35	0.709698457	0.439	0.302	4.60E-31	9 SFMBT2
2.88E-63	0.706940523	0.399	0.207	9.25E-59	9 AP000295.1
4.03E-84	0.706812146	0.886	0.828	1.29E-79	9 MACF1
6.03E-56	0.706676814	0.815	0.738	1.94E-51	9 PICALM
2.39E-73	0.704379835	0.325	0.138	7.68E-69	9 HDAC7
5.19E-47	0.702076823	0.612	0.487	1.67E-42	9 ZFH3
6.92E-44	0.701395531	0.332	0.188	2.22E-39	9 CALCOCO2
4.31E-39	0.701344693	0.417	0.275	1.38E-34	9 ATXN3
6.07E-101	0.697535914	0.276	0.085	1.95E-96	9 STK10
1.50E-43	0.693872522	0.617	0.519	4.82E-39	9 NCKAP1
9.83E-35	0.691983266	0.29	0.167	3.16E-30	9 AL049629.2
1.17E-36	0.691554522	0.309	0.173	3.77E-32	9 AHR
3.69E-45	0.691060965	0.547	0.385	1.18E-40	9 SHROOM4
1.59E-25	0.687212834	0.306	0.192	5.11E-21	9 TSC22D3
1.62E-44	0.686450389	0.272	0.134	5.21E-40	9 AC025171.1
8.17E-18	0.684242668	0.472	0.421	2.62E-13	9 SPRED2
1.88E-26	0.683550075	0.42	0.316	6.03E-22	9 MGAT4A
2.95E-36	0.682111606	0.418	0.272	9.46E-32	9 STIM1
3.93E-21	0.679010654	0.281	0.186	1.26E-16	9 AC090517.4

2.19E-30	0.677158445	0.412	0.298	7.05E-26	9 TBC1D15
1.57E-50	0.673651588	0.28	0.133	5.04E-46	9 CD99
1.12E-30	0.672371473	0.537	0.423	3.61E-26	9 MYH9
1.40E-51	0.672159801	0.285	0.134	4.51E-47	9 SLC44A2
1.42E-28	0.667299236	0.352	0.24	4.56E-24	9 RPL31
2.78E-55	0.664996324	0.293	0.134	8.94E-51	9 NFKBIA
1.26E-37	0.66278436	0.662	0.551	4.05E-33	9 STARD13
6.60E-37	0.662310356	0.574	0.479	2.12E-32	9 ACAP2
2.00E-110	0.661683572	0.263	0.074	6.43E-106	9 CRIP2
3.41E-31	0.660802869	0.453	0.343	1.10E-26	9 TMOD3
4.51E-29	0.658567678	0.553	0.47	1.45E-24	9 PDS5B
3.48E-67	0.657328091	0.854	0.768	1.12E-62	9 AFF1
7.44E-40	0.655900002	0.689	0.624	2.39E-35	9 GSK3B
2.54E-66	0.650497856	0.304	0.126	8.16E-62	9 BX005040.4
1.98E-42	0.650379034	0.258	0.125	6.36E-38	9 TRIM56
1.64E-31	0.644419579	0.302	0.18	5.28E-27	9 SOX13
1.71E-35	0.643874933	0.589	0.467	5.49E-31	9 SSBP2
4.67E-59	0.64127323	0.873	0.82	1.50E-54	9 TBC1D5
7.78E-62	0.638347986	0.259	0.103	2.50E-57	9 DGKZ
4.59E-31	0.630983036	0.37	0.249	1.47E-26	9 NBPFL5
2.05E-28	0.629044757	0.398	0.287	6.60E-24	9 DENND6A
9.47E-24	0.625042991	0.52	0.444	3.04E-19	9 PHF14
8.09E-16	0.623071818	0.487	0.425	2.60E-11	9 ENTPD1-AS1
2.45E-26	0.621885323	0.821	0.806	7.87E-22	9 AC016831.6
3.77E-20	0.619011201	0.254	0.161	1.21E-15	9 RFTN1
4.32E-23	0.617025325	0.521	0.465	1.39E-18	9 UBR1
4.10E-30	0.60523641	0.366	0.246	1.32E-25	9 RHOA
7.60E-34	0.605225698	0.592	0.491	2.44E-29	9 GNB1
1.35E-28	0.605059839	0.318	0.199	4.34E-24	9 NIN
1.47E-28	0.604155193	0.77	0.742	4.73E-24	9 MBNL1
7.18E-45	0.599105355	0.659	0.543	2.30E-40	9 TJP1
3.34E-26	0.597810788	0.684	0.651	1.07E-21	9 ARHGEF12
1.32E-34	0.597551368	0.295	0.16	4.25E-30	9 ZEB2
3.23E-25	0.596971032	0.589	0.535	1.04E-20	9 ARHGEF7
2.04E-19	0.59418809	0.461	0.394	6.56E-15	9 PPP3CC
4.47E-20	0.590860906	0.346	0.253	1.43E-15	9 B4GALT1
5.09E-30	0.588678049	0.366	0.241	1.63E-25	9 CEP170
1.48E-21	0.587286671	0.258	0.164	4.74E-17	9 RAB8B
7.49E-36	0.586780247	0.318	0.184	2.41E-31	9 FGD6
1.50E-42	0.586419476	0.851	0.801	4.82E-38	9 MED13L
3.20E-16	0.58578133	0.257	0.176	1.03E-11	9 HERPUD1
5.75E-18	0.582665897	0.356	0.276	1.85E-13	9 STX12
7.60E-22	0.580744264	0.446	0.365	2.44E-17	9 CDC27
6.89E-20	0.579405072	0.592	0.559	2.21E-15	9 ELF2
8.98E-20	0.579396439	0.263	0.171	2.88E-15	9 CCDC88A
2.22E-26	0.578540483	0.685	0.644	7.12E-22	9 RAPGEF2
5.08E-56	0.57769229	0.816	0.696	1.63E-51	9 APBB2
9.46E-17	0.577349513	0.329	0.254	3.04E-12	9 SLC30A7
3.88E-18	0.574466702	0.36	0.28	1.24E-13	9 PRKD3
1.88E-51	0.574398626	0.256	0.112	6.03E-47	9 NOD1
2.09E-22	0.573874879	0.294	0.188	6.70E-18	9 PRKX

1.18E-13	0.569874242	0.301	0.22	3.78E-09	9 NR4A1
1.52E-15	0.569523124	0.413	0.35	4.87E-11	9 SUSD6
1.22E-47	0.568483323	0.745	0.628	3.91E-43	9 LRCH1
3.19E-28	0.567271974	0.354	0.234	1.03E-23	9 RGS12
3.60E-05	0.56687239	0.563	0.719	1	9 PRKCA
3.92E-21	0.56675378	0.74	0.733	1.26E-16	9 SMYD3
2.48E-19	0.566462095	0.444	0.372	7.97E-15	9 ITGB1
1.44E-20	0.563876943	0.378	0.284	4.62E-16	9 ZNF800
4.02E-35	0.563476424	0.682	0.625	1.29E-30	9 DDX5
0.00539841	0.561061112	0.262	0.251	1	9 KHDRBS3
1.44E-17	0.560823508	0.365	0.286	4.63E-13	9 KLHL2
2.82E-20	0.559118155	0.297	0.207	9.04E-16	9 BTBD3
3.11E-25	0.558907264	0.7	0.666	9.99E-21	9 RASA1
3.94E-50	0.55807332	0.855	0.797	1.27E-45	9 SBF2
1.72E-13	0.557767004	0.366	0.308	5.54E-09	9 ADAM17
5.02E-21	0.557123456	0.274	0.177	1.61E-16	9 SULF2
1.53E-19	0.553723377	0.529	0.475	4.92E-15	9 ADD1
3.99E-22	0.553522815	0.393	0.298	1.28E-17	9 CYFIP1
4.87E-12	0.550426502	0.251	0.177	1.57E-07	9 FOS
4.20E-18	0.549628474	0.416	0.336	1.35E-13	9 ZNF532
1.84E-34	0.547972043	0.315	0.18	5.92E-30	9 ROBO1
1.29E-16	0.547654062	0.663	0.634	4.13E-12	9 SORBS2
2.26E-29	0.546845391	0.648	0.588	7.26E-25	9 PPP1R12A
3.98E-16	0.545785773	0.367	0.281	1.28E-11	9 PCDHGA1
8.03E-14	0.542485251	0.349	0.285	2.58E-09	9 FBXO25
1.02E-24	0.541867808	0.699	0.658	3.29E-20	9 MAP4
3.15E-12	0.540273468	0.536	0.497	1.01E-07	9 MLLT3
7.83E-31	0.538276964	0.753	0.719	2.52E-26	9 EXOC6B
5.64E-12	0.53531406	0.363	0.312	1.81E-07	9 CAPZA2
3.68E-14	0.534308104	0.438	0.363	1.18E-09	9 PPARG
2.05E-29	0.533190341	0.256	0.145	6.58E-25	9 TPM3
2.84E-08	0.532789881	0.416	0.402	0.00091071	9 LYST
2.26E-05	0.53238085	0.337	0.326	0.725477314	9 AGTPBP1
9.73E-12	0.532176591	0.444	0.379	3.12E-07	9 CACNA2D1
2.48E-14	0.53150773	0.281	0.206	7.95E-10	9 NCK1
1.19E-36	0.527788396	0.778	0.73	3.81E-32	9 STAG1
2.26E-10	0.524163508	0.541	0.541	7.25E-06	9 BBS9
2.84E-09	0.524029084	0.451	0.431	9.11E-05	9 FAM214A
2.59E-18	0.521111904	0.505	0.426	8.32E-14	9 SKAP2
1.70E-07	0.518968495	0.368	0.335	0.005451231	9 SPRED1
2.05E-20	0.517836019	0.338	0.24	6.58E-16	9 CEP85L
7.96E-30	0.514974985	0.267	0.149	2.56E-25	9 PIEZO1
5.06E-13	0.512293793	0.462	0.42	1.62E-08	9 TIAM2
1.49E-44	0.511278464	0.847	0.802	4.79E-40	9 TCF12
1.54E-10	0.511222006	0.448	0.405	4.95E-06	9 CAMK2D
6.23E-31	0.511181839	0.263	0.146	2.00E-26	9 STXBP1
2.22E-21	0.510954322	0.367	0.264	7.12E-17	9 MYO15B
3.29E-22	0.509488888	0.462	0.364	1.06E-17	9 SHOC1
2.53E-12	0.509447857	0.531	0.496	8.12E-08	9 HIPK3
3.32E-12	0.509435154	0.285	0.217	1.07E-07	9 ZNRF1
5.78E-28	0.508252952	0.299	0.178	1.86E-23	9 ZC3HAV1

7.28E-13	0.50726598	0.296	0.231	2.34E-08	9 TSNAX-DISC1
7.69E-20	0.506827468	0.588	0.532	2.47E-15	9 SETX
6.69E-08	0.50619201	0.372	0.341	0.002147235	9 REEP3
2.38E-14	0.505794603	0.267	0.194	7.63E-10	9 TMEM87B
7.90E-10	0.503812105	0.331	0.274	2.54E-05	9 GAB2
6.88E-10	0.503531908	0.569	0.573	2.21E-05	9 UBE2D3
4.30E-13	0.503093917	0.31	0.239	1.38E-08	9 SLC38A2
5.00E-17	0.503043452	0.387	0.307	1.60E-12	9 DENND5A
9.67E-30	0.500690105	0.348	0.216	3.11E-25	9 ST3GAL1
8.37E-11	0.500265592	0.326	0.268	2.69E-06	9 RPH3AL
2.13E-13	0.499783899	0.389	0.319	6.85E-09	9 HPCAL1
0.00013208	0.498375824	0.315	0.293	1	9 CASC15
6.46E-12	0.495342252	0.259	0.184	2.07E-07	9 ZFPM2
1.68E-13	0.495143007	0.572	0.544	5.41E-09	9 XPR1
2.94E-17	0.493459491	0.301	0.216	9.44E-13	9 AGO4
6.47E-19	0.492431812	0.277	0.188	2.08E-14	9 MIDEAS
9.95E-24	0.491057425	0.318	0.204	3.19E-19	9 DCLK2
1.11E-17	0.488834836	0.3	0.209	3.56E-13	9 SNTB2
1.30E-08	0.48859786	0.346	0.293	0.000416273	9 PBX3
1.29E-16	0.487971004	0.56	0.521	4.13E-12	9 ROCK1
6.21E-17	0.486421812	0.572	0.533	1.99E-12	9 PTBP2
4.25E-10	0.481947682	0.404	0.359	1.37E-05	9 LUZP1
5.53E-10	0.4811621	0.534	0.53	1.78E-05	9 ATG7
8.21E-07	0.481071295	0.34	0.304	0.026374799	9 ANKH
0.00277867	0.481060712	0.446	0.442	1	9 THSD4
4.30E-23	0.480003095	0.292	0.181	1.38E-18	9 AP002518.2
3.03E-21	0.477869803	0.652	0.627	9.72E-17	9 COP1
6.98E-15	0.474094869	0.473	0.411	2.24E-10	9 PPP2R5A
1.77E-16	0.472755647	0.505	0.442	5.69E-12	9 IQGAP1
3.25E-09	0.471811765	0.275	0.224	0.000104445	9 PKIG
6.75E-11	0.470210607	0.364	0.307	2.17E-06	9 ATF7IP2
1.08E-15	0.469128132	0.543	0.519	3.48E-11	9 CEP350
2.34E-42	0.468455907	0.663	0.495	7.51E-38	9 HIP1
5.50E-08	0.467861089	0.525	0.534	0.001764858	9 DENND4C
2.56E-18	0.46494542	0.584	0.547	8.22E-14	9 KLC1
1.50E-33	0.464283108	0.883	0.881	4.81E-29	9 SYNE2
1.34E-08	0.463581005	0.401	0.369	0.000428887	9 GOLPH3
1.28E-13	0.462112194	0.366	0.3	4.10E-09	9 UPF3A
3.03E-12	0.461888041	0.492	0.45	9.72E-08	9 SPECC1L
4.42E-13	0.461239617	0.282	0.213	1.42E-08	9 CDC37
9.11E-15	0.461097695	0.281	0.205	2.93E-10	9 PTTG1IP
1.21E-12	0.458167537	0.502	0.464	3.88E-08	9 MAP4K5
1.62E-15	0.458086341	0.251	0.175	5.19E-11	9 DELE1
8.07E-27	0.457552525	0.782	0.765	2.59E-22	9 BAZ2B
2.00E-10	0.457215475	0.406	0.353	6.43E-06	9 CNTLN
3.62E-10	0.456528927	0.431	0.4	1.16E-05	9 EXOC1
5.43E-11	0.455878506	0.262	0.203	1.74E-06	9 KLF3
3.67E-09	0.45503955	0.271	0.218	0.000117827	9 EIF2AK2
9.72E-08	0.454521356	0.5	0.49	0.003121445	9 MAN2A1
5.86E-12	0.453436533	0.534	0.52	1.88E-07	9 MYCBP2
5.23E-09	0.452275883	0.53	0.516	0.000167952	9 GMDS

1.19E-12	0.451043396	0.615	0.617	3.83E-08	9 SOS1
1.98E-11	0.450656381	0.377	0.323	6.37E-07	9 ARHGAP17
3.20E-12	0.450078602	0.296	0.224	1.03E-07	9 AC027097.2
8.29E-10	0.449829281	0.396	0.354	2.66E-05	9 ATF7-NPFF
0.00138212	0.449352459	0.352	0.356	1	9 RPRD1A
2.32E-06	0.447374278	0.366	0.346	0.074521884	9 PIK3CA
1.86E-20	0.447165513	0.614	0.538	5.98E-16	9 SVIL
4.98E-23	0.446160545	0.731	0.711	1.60E-18	9 ERC1
2.32E-16	0.444768253	0.596	0.564	7.45E-12	9 UVVAG
5.22E-05	0.444139802	0.373	0.359	1	9 NFKB1
2.57E-09	0.442537953	0.593	0.594	8.26E-05	9 ZNF407
1.64E-12	0.44138155	0.253	0.181	5.26E-08	9 AGPAT4
2.36E-12	0.440711305	0.448	0.395	7.58E-08	9 CAMSAP2
7.13E-07	0.440212996	0.32	0.281	0.022889453	9 KSR1
2.56E-16	0.43894057	0.651	0.614	8.23E-12	9 FER
4.52E-14	0.437608914	0.567	0.549	1.45E-09	9 FAM120B
4.96E-08	0.437281008	0.325	0.288	0.001593898	9 ARPC2
6.12E-09	0.436635431	0.459	0.435	0.000196712	9 AC068896.1
2.36E-18	0.436600234	0.64	0.612	7.57E-14	9 TBC1D22A
1.27E-07	0.436362856	0.393	0.369	0.004077802	9 PITPNB
4.38E-06	0.436098215	0.354	0.33	0.140540826	9 ACER3
4.93E-12	0.434489516	0.272	0.21	1.58E-07	9 RAB12
1.05E-15	0.433354596	0.3	0.215	3.37E-11	9 TPST2
7.02E-10	0.43234131	0.363	0.315	2.25E-05	9 SLC25A37
1.28E-10	0.431873373	0.525	0.509	4.11E-06	9 EPC1
2.92E-09	0.431745054	0.361	0.315	9.37E-05	9 SLK
1.02E-09	0.427602847	0.286	0.234	3.28E-05	9 SH3GLB1
1.17E-09	0.426530968	0.287	0.235	3.75E-05	9 YEATS2
4.15E-08	0.426429749	0.345	0.306	0.001331526	9 ASCC1
3.70E-13	0.426065092	0.309	0.229	1.19E-08	9 AC010894.2
2.90E-13	0.424585924	0.598	0.579	9.32E-09	9 EPS15
7.41E-08	0.424340667	0.459	0.438	0.002379204	9 RAP1A
6.73E-11	0.423943189	0.373	0.317	2.16E-06	9 RPS6KA3
1.01E-08	0.421281798	0.566	0.582	0.000324787	9 NUTM2B-AS1
2.37E-05	0.420706911	0.548	0.56	0.760947776	9 PPP3CA
0.00170351	0.416532295	0.381	0.395	1	9 MECP2
2.01E-19	0.410977934	0.749	0.698	6.44E-15	9 ZSWIM6
2.17E-07	0.410668558	0.445	0.424	0.006967416	9 ITM2B
0.00029086	0.410037603	0.482	0.506	1	9 PHF21A
9.75E-16	0.409357845	0.713	0.703	3.13E-11	9 PAN3
1.24E-19	0.407632152	0.72	0.681	3.99E-15	9 EIF4G3
0.00050088	0.407142741	0.253	0.229	1	9 RNF217
4.58E-08	0.404069968	0.37	0.335	0.001469575	9 DIP2A
9.54E-06	0.403829326	0.254	0.22	0.306270774	9 TBK1
2.66E-11	0.399476744	0.619	0.629	8.53E-07	9 ARID4B
3.84E-10	0.396460806	0.535	0.525	1.23E-05	9 RAB2A
3.00E-21	0.395469997	0.685	0.613	9.63E-17	9 LRRFIP1
3.41E-07	0.393001739	0.521	0.523	0.01095449	9 FBXW7
3.79E-24	0.392825321	0.396	0.279	1.22E-19	9 CDC14A
0.00075934	0.391323821	0.553	0.617	1	9 KLF12
6.49E-06	0.391225518	0.271	0.235	0.208537408	9 OSMR-AS1

0.00024337	0.390816605	0.426	0.427	1	9 SPATA5
3.98E-08	0.389004021	0.278	0.229	0.001279328	9 RNF145
2.87E-05	0.38892555	0.334	0.305	0.922062246	9 ZNF462
0.00013118	0.388600651	0.331	0.302	1	9 FOSL2
1.41E-10	0.388309294	0.379	0.323	4.54E-06	9 RRBP1
4.10E-09	0.388175253	0.293	0.243	0.000131577	9 CRBN
3.84E-09	0.386664717	0.293	0.239	0.000123213	9 IRF2
5.27E-08	0.386085724	0.322	0.276	0.001692886	9 DAB2IP
3.53E-10	0.386024938	0.356	0.293	1.13E-05	9 CCND3
2.10E-05	0.384787638	0.348	0.32	0.674218175	9 GTDC1
0.00019204	0.384304582	0.313	0.301	1	9 MINDY3
9.82E-08	0.383555125	0.442	0.421	0.003153919	9 POLK
3.64E-06	0.382917453	0.5	0.504	0.116816488	9 FBXO11
5.53E-11	0.382146311	0.253	0.185	1.78E-06	9 NEDD9
0.00048356	0.381682586	0.281	0.259	1	9 SEM1
0.00550207	0.380767015	0.26	0.246	1	9 TDRP
5.60E-07	0.37894419	0.575	0.588	0.017994051	9 PCNX1
8.88E-34	0.377729489	0.436	0.271	2.85E-29	9 RCAN2
2.94E-06	0.375158033	0.441	0.435	0.094447942	9 ZNF280D
2.22E-08	0.374008627	0.315	0.267	0.000714254	9 MAP3K3
0.00116613	0.373480624	0.368	0.373	1	9 COPA
0.00701443	0.373446681	0.33	0.329	1	9 PITPNM2
1.23E-10	0.373195386	0.27	0.205	3.94E-06	9 ARPC4-TTLL3
3.22E-05	0.372245147	0.716	0.767	1	9 KIAA1217
1.42E-14	0.371304155	0.812	0.812	4.57E-10	9 PRH1
1.79E-05	0.371097415	0.418	0.415	0.574468952	9 PDCD6IP
1.01E-07	0.370407973	0.558	0.574	0.003244782	9 PHKB
5.27E-20	0.370310391	0.468	0.358	1.69E-15	9 STIM2
6.62E-14	0.369789957	0.72	0.716	2.13E-09	9 CDKAL1
2.82E-09	0.368670641	0.609	0.601	9.06E-05	9 CTBP2
1.91E-05	0.366068186	0.461	0.46	0.612198796	9 TMEM135
2.36E-05	0.364466931	0.36	0.34	0.758328337	9 RALY
0.00045659	0.364037732	0.289	0.272	1	9 HEATR5B
0.00024541	0.362404492	0.447	0.458	1	9 SUN1
3.79E-06	0.361968724	0.555	0.571	0.121878405	9 SDCCAG8
1.11E-09	0.36080153	0.514	0.494	3.57E-05	9 SMARCA2
0.00107961	0.359655309	0.269	0.249	1	9 SSH1
0.00014068	0.35877825	0.352	0.333	1	9 CRYBG3
0.00014752	0.358767665	0.476	0.496	1	9 CNOT2
6.63E-08	0.358698595	0.515	0.502	0.002128027	9 VPS13C
0.0005788	0.35774165	0.258	0.239	1	9 ACTR2
0.00297644	0.355032467	0.482	0.52	1	9 NEK7
1.12E-05	0.35469682	0.392	0.376	0.361000662	9 NCOR2
1.98E-09	0.354382971	0.616	0.623	6.37E-05	9 WAC
3.67E-11	0.354362336	0.674	0.678	1.18E-06	9 PCMI
5.63E-10	0.353909559	0.596	0.575	1.81E-05	9 NLK
5.83E-09	0.353709619	0.68	0.651	0.000187277	9 NFIB
1.64E-08	0.353649117	0.277	0.222	0.000526272	9 CCM2
5.67E-10	0.351690612	0.549	0.52	1.82E-05	9 ADAM10
0.00389926	0.351667822	0.385	0.391	1	9 TAF1
0.00017172	0.349913294	0.259	0.23	1	9 RALA

4.26E-09	0.348478489	0.634	0.632	0.000136877	9 FTO
1.27E-17	0.346792803	0.748	0.731	4.06E-13	9 DOCK1
1.08E-19	0.346365008	0.399	0.283	3.48E-15	9 MID1
0.00011529	0.346215615	0.286	0.251	1	9 ITPKB
5.06E-08	0.345759126	0.608	0.625	0.001624114	9 HERC4
2.31E-05	0.345297348	0.458	0.465	0.743425277	9 SMC5
6.46E-06	0.344236721	0.284	0.25	0.207440964	9 RBM17
0.00010914	0.34373703	0.392	0.388	1	9 TMEM165
0.00014605	0.342012657	0.404	0.406	1	9 SEPTIN7
3.33E-05	0.341016138	0.326	0.303	1	9 PAK2
4.06E-09	0.340658531	0.644	0.66	0.000130529	9 KMT2E
2.36E-07	0.339196709	0.576	0.566	0.007566195	9 PAM
0.00838764	0.337946412	0.441	0.474	1	9 VPS54
2.80E-06	0.337916806	0.485	0.486	0.089835238	9 CAST
0.00011557	0.337191928	0.295	0.274	1	9 CDC42
4.65E-11	0.336793123	0.717	0.719	1.49E-06	9 MKLN1
0.00067438	0.33631053	0.413	0.415	1	9 SPTAN1
0.00018781	0.333410797	0.361	0.351	1	9 AC078927.1
4.73E-20	0.333333571	0.413	0.296	1.52E-15	9 PHACTR1
0.00099286	0.332635447	0.43	0.439	1	9 LRCH3
0.00091986	0.331689802	0.453	0.469	1	9 MAP2K5
0.00906029	0.331533295	0.37	0.373	1	9 B4GALT5
2.65E-09	0.331442081	0.388	0.323	8.51E-05	9 ATP11A
4.96E-07	0.331032776	0.3	0.256	0.015944085	9 ELOVL5
0.00010649	0.329269391	0.287	0.264	1	9 AC009554.1
3.40E-07	0.328317232	0.567	0.585	0.010905954	9 SETD5
0.00017516	0.327339278	0.346	0.323	1	9 RSU1
2.09E-08	0.327301287	0.358	0.496	0.000670742	9 NDRG1
0.00105621	0.327005258	0.412	0.406	1	9 PHACTR2
4.00E-05	0.325827323	0.348	0.323	1	9 CTIF
0.00370389	0.324659838	0.402	0.412	1	9 APPBP2
2.37E-11	0.322966395	0.641	0.618	7.61E-07	9 SPAG9
0.00956883	0.32084811	0.365	0.378	1	9 FAR1
0.00434939	0.319794624	0.288	0.276	1	9 EXT2
0.00782802	0.319644732	0.488	0.522	1	9 UNC13B
0.0051899	0.319054038	0.253	0.24	1	9 MTM1
0.00039214	0.318904045	0.288	0.257	1	9 MTHFD1L
0.0052009	0.318533589	0.26	0.252	1	9 LINC01881
2.94E-08	0.318028189	0.579	0.58	0.000944354	9 XRN1
0.00876815	0.317980975	0.439	0.476	1	9 SNX13
0.00404303	0.317587261	0.356	0.367	1	9 RARS2
0.00483578	0.317362588	0.423	0.445	1	9 WASHC4
2.07E-07	0.316758903	0.68	0.699	0.006646643	9 NCOA1
0.00078556	0.31669037	0.313	0.302	1	9 ANAPC5
2.27E-07	0.31633074	0.416	0.383	0.007302981	9 JAK2
5.46E-05	0.315824628	0.472	0.482	1	9 MARCHF7
0.00113441	0.315392676	0.461	0.476	1	9 DMTF1
0.00501627	0.315331419	0.422	0.444	1	9 FUS
0.00069744	0.312537699	0.531	0.548	1	9 CMIP
0.00026605	0.311314016	0.456	0.467	1	9 SEC24B
3.52E-06	0.311178305	0.665	0.691	0.113200094	9 FAM172A

0.00794637	0.309449046	0.311	0.305	1	9 BRWD3
0.00043768	0.308635318	0.621	0.66	1	9 COMMD10
0.00335311	0.307580835	0.435	0.456	1	9 TAF15
4.97E-10	0.307553985	0.701	0.708	1.60E-05	9 AFDN
1.00E-06	0.307457869	0.492	0.469	0.032135504	9 CDC42BPB
0.00417888	0.306266616	0.489	0.51	1	9 PHACTR4
0.00696621	0.30368818	0.254	0.242	1	9 DCP2
0.00831515	0.30232423	0.301	0.298	1	9 VPS36
0.00650628	0.301506083	0.317	0.303	1	9 AC092683.1
1.75E-11	0.300623535	0.49	0.423	5.63E-07	9 BICD1
0.00886626	0.298578648	0.344	0.35	1	9 ATF2
8.27E-11	0.297628143	0.703	0.688	2.66E-06	9 TRIO
0.00014762	0.292709324	0.462	0.478	1	9 HNRNPA3
0.00212065	0.292677331	0.289	0.271	1	9 RAPH1
2.63E-49	0.290143729	1	0.999	8.45E-45	9 FP671120.7
9.02E-05	0.290091833	0.321	0.297	1	9 DYNC1H1
0.00517862	0.288720624	0.467	0.496	1	9 RAB3GAP1
4.66E-07	0.287677441	0.701	0.728	0.014979459	9 NIPBL
0.00866684	0.286002824	0.417	0.435	1	9 VEZT
5.11E-11	0.285555104	0.708	0.69	1.64E-06	9 NUMB
0.00052687	0.282622072	0.277	0.254	1	9 SIN3B
2.54E-06	0.282100493	0.292	0.248	0.081447598	9 FAM111A
8.09E-08	0.281155475	0.634	0.603	0.002597106	9 FOXO1
0.00250501	0.278773535	0.506	0.518	1	9 ELF1
0.00087442	0.278703475	0.428	0.443	1	9 ZNF207
5.07E-25	0.278062303	0.998	0.998	1.63E-20	9 HFM1
0.00683201	0.269954951	0.472	0.495	1	9 PPP2R2A
0.00271892	0.268581052	0.293	0.278	1	9 AAMDC
9.03E-07	0.268548908	0.61	0.624	0.028989711	9 TSPAN9
0.00246584	0.267348339	0.401	0.407	1	9 EHMT1
2.77E-10	0.263295618	0.505	0.436	8.91E-06	9 PLCL2
0.00545217	0.262089912	0.356	0.353	1	9 PCBP1-AS1
5.87E-08	0.262042433	0.752	0.757	0.001884722	9 BIRC6
7.14E-06	0.259654573	0.72	0.742	0.229169578	9 SPIDR
0.00787259	0.25773814	0.52	0.544	1	9 STAT3
0.00377981	0.257501637	0.578	0.616	1	9 TRIP12
3.72E-49	0.250608382	0.846	0.687	1.19E-44	9 CADPS2
0	3.273589399	0.694	0.08	0	10 LINC00621
0	3.1093474	0.57	0.111	0	10 DCC
0	2.992179762	0.855	0.145	0	10 BX571818.1
0	2.876066451	0.724	0.187	0	10 DLGAP1
0	2.665775239	0.885	0.356	0	10 ITGB8
0	2.63300218	0.561	0.131	0	10 CLSTN2
0	2.602034731	0.697	0.146	0	10 CREB5
0	2.344321981	0.544	0.105	0	10 CRYAB
0	2.331077855	0.74	0.201	0	10 TMEM178B
0	2.21191139	0.506	0.051	0	10 VCAM1
0	2.182907938	0.735	0.088	0	10 RHEX
0	2.172482252	0.851	0.27	0	10 UGT2B7
0	2.139987735	0.707	0.095	0	10 ALPK2
0	2.094162829	0.467	0.059	0	10 MEG3

0	1.998338816	0.72	0.242	0	10 TPM1
0	1.896506572	0.792	0.247	0	10 PRUNE2
0	1.860109455	0.744	0.24	0	10 TNIK
7.34E-105	1.852492234	0.431	0.176	2.36E-100	10 ROBO2
0	1.801347793	0.482	0.077	0	10 CDH6
6.08E-308	1.800823831	0.852	0.362	1.95E-303	10 BNC2
2.56E-70	1.789890312	0.409	0.204	8.24E-66	10 ACSM3
1.94E-241	1.782407738	0.696	0.292	6.23E-237	10 UGCG
0	1.759470036	0.491	0.08	0	10 PRICKLE1
0	1.719603838	0.553	0.12	0	10 AKAP12
0	1.713041478	0.594	0.129	0	10 EPHA7
3.25E-245	1.698881124	0.822	0.412	1.05E-240	10 GPC6
1.03E-248	1.688400073	0.703	0.258	3.31E-244	10 SEMA5A
2.31E-302	1.654529457	0.695	0.214	7.41E-298	10 CLIC4
0	1.626946161	0.446	0.061	0	10 FAM135B
1.12E-299	1.62354557	0.855	0.359	3.60E-295	10 PTPRD
2.34E-215	1.615736099	0.847	0.527	7.51E-211	10 PPFIBP1
0	1.605011768	0.533	0.052	0	10 APBB1IP
9.99E-115	1.603023476	0.555	0.282	3.21E-110	10 CASC15
0	1.600700754	0.642	0.171	0	10 FOXP2
4.71E-238	1.588206469	0.824	0.402	1.51E-233	10 LINC01320
2.48E-204	1.562071619	0.866	0.499	7.96E-200	10 SDK1
1.33E-232	1.5583647	0.746	0.305	4.27E-228	10 NRP1
4.46E-289	1.545280721	0.387	0.066	1.43E-284	10 AC113386.1
0	1.543801726	0.58	0.103	0	10 AC018467.1
8.43E-158	1.538284561	0.407	0.12	2.71E-153	10 SLC9A9
2.18E-219	1.517168149	0.344	0.067	7.00E-215	10 KCNQ3
9.21E-233	1.511871631	0.66	0.25	2.96E-228	10 LINC02615
6.25E-277	1.496720219	0.338	0.052	2.01E-272	10 FSTL3
0	1.479924123	0.731	0.195	0	10 AL589669.1
1.00E-224	1.474746915	0.561	0.157	3.21E-220	10 GDA
0	1.454960761	0.657	0.156	0	10 CDH2
1.15E-74	1.43281425	0.585	0.37	3.69E-70	10 SOD2
1.22E-253	1.430314538	0.812	0.313	3.90E-249	10 SLC2A9
4.81E-209	1.406640271	0.856	0.555	1.55E-204	10 VMP1
0	1.405347404	0.37	0.023	0	10 RHPN2P1
8.73E-124	1.39808431	0.553	0.249	2.80E-119	10 NCEH1
1.43E-155	1.391959916	0.662	0.308	4.59E-151	10 MACC1
1.30E-243	1.390732349	0.506	0.133	4.17E-239	10 TNFSF10
2.58E-180	1.387212927	0.629	0.262	8.28E-176	10 LPIN2
1.67E-225	1.371538381	0.846	0.359	5.36E-221	10 LRP2
0	1.36740426	0.511	0.087	0	10 DOCK11
1.02E-182	1.361239648	0.751	0.386	3.29E-178	10 STOX2
8.76E-168	1.358233712	0.666	0.314	2.81E-163	10 KLF6
3.71E-250	1.347169637	0.559	0.159	1.19E-245	10 DTNA
6.69E-203	1.337971332	0.778	0.359	2.15E-198	10 ARHGAP26
1.35E-163	1.326795058	0.72	0.361	4.33E-159	10 SAMD4A
5.92E-166	1.310207165	0.966	0.826	1.90E-161	10 BICC1
3.16E-189	1.307791021	0.638	0.252	1.02E-184	10 FAM189A1
1.19E-109	1.290176129	0.562	0.263	3.82E-105	10 NRG1
1.55E-132	1.273822292	0.525	0.212	4.97E-128	10 NFKBIZ

0	1.271715403	0.545	0.095	0	10 ADGRG6
0	1.266789085	0.407	0.051	0	10 COL23A1
2.19E-232	1.26360991	0.503	0.13	7.03E-228	10 GBA3
8.29E-232	1.261814979	0.541	0.151	2.66E-227	10 AL136234.1
5.33E-138	1.258944518	0.576	0.237	1.71E-133	10 AC012593.1
0	1.25832818	0.473	0.086	0	10 SULT1C4
3.12E-165	1.246892089	0.307	0.068	1.00E-160	10 DCLK1
0	1.246303327	0.286	0.028	0	10 AL117190.1
7.51E-233	1.243949916	0.658	0.219	2.41E-228	10 NRG3
8.58E-157	1.238554884	0.549	0.206	2.75E-152	10 ANKRD33B
0	1.225461738	0.509	0.076	0	10 MSC-AS1
0	1.22486122	0.297	0.033	0	10 MEG8
2.28E-189	1.224038812	0.937	0.835	7.34E-185	10 PARD3
1.20E-231	1.223441174	0.667	0.224	3.86E-227	10 ARHGAP42
2.92E-126	1.221176049	0.656	0.338	9.36E-122	10 RETREG1
6.68E-266	1.213233753	0.689	0.217	2.14E-261	10 PAPLN
1.12E-193	1.203072463	0.465	0.13	3.60E-189	10 PROM1
6.94E-179	1.195612767	0.887	0.635	2.23E-174	10 TTC28
7.39E-146	1.188764046	0.854	0.519	2.37E-141	10 NCKAP5
1.41E-124	1.18870789	0.644	0.32	4.54E-120	10 MET
3.92E-128	1.176160312	0.894	0.683	1.26E-123	10 AGBL4
5.22E-179	1.167440073	0.529	0.178	1.68E-174	10 NEDD4
8.23E-163	1.163531008	0.716	0.354	2.64E-158	10 DGKH
2.40E-120	1.160874669	0.747	0.479	7.70E-116	10 MICAL3
1.24E-149	1.156606299	0.713	0.366	3.98E-145	10 LRRK2
7.24E-154	1.15560126	0.419	0.122	2.33E-149	10 ELF3
2.52E-129	1.152736241	0.888	0.664	8.08E-125	10 NHS
6.50E-196	1.152222814	0.99	0.825	2.09E-191	10 PTH2R
2.37E-206	1.142907544	0.665	0.249	7.61E-202	10 LSP1P4
2.82E-292	1.135466794	0.632	0.157	9.07E-288	10 GLIS1
4.78E-308	1.133914654	0.302	0.037	1.53E-303	10 HHLA2
3.14E-211	1.119509597	0.54	0.154	1.01E-206	10 AGMO
0	1.116309803	0.343	0.031	0	10 IL32
8.13E-195	1.100501855	0.672	0.237	2.61E-190	10 RHOBTB1
0	1.09510589	0.438	0.074	0	10 PVT1
4.36E-259	1.094587122	0.395	0.074	1.40E-254	10 AC005699.1
0	1.094281927	0.47	0.078	0	10 TTLL7
1.65E-207	1.091244357	0.669	0.248	5.31E-203	10 LSP1P5
8.31E-133	1.084856855	0.714	0.404	2.67E-128	10 SPATS2L
9.39E-195	1.081085603	0.543	0.175	3.02E-190	10 MPP6
6.48E-204	1.076120878	0.666	0.235	2.08E-199	10 COL27A1
7.65E-125	1.075100233	0.55	0.239	2.46E-120	10 MYLK
8.81E-164	1.074342765	0.686	0.309	2.83E-159	10 ATP11A
6.29E-109	1.070654381	0.336	0.105	2.02E-104	10 KCTD16
0	1.068457467	0.37	0.041	0	10 MYO3A
9.11E-219	1.059642462	0.995	0.873	2.93E-214	10 PKHD1
4.54E-246	1.059309736	0.642	0.196	1.46E-241	10 CD200
8.22E-50	1.059217583	0.656	0.478	2.64E-45	10 FMNL2
3.51E-98	1.054837101	0.699	0.442	1.13E-93	10 PLEKHA1
6.63E-202	1.054217791	0.559	0.161	2.13E-197	10 ANPEP
1.79E-111	1.050556571	0.481	0.196	5.74E-107	10 TNFRSF21

0	1.049899683	0.369	0.052	0	10 ABCC3
4.39E-110	1.049749199	0.594	0.286	1.41E-105	10 ZNF385B
1.40E-124	1.048121317	0.799	0.538	4.50E-120	10 BCL2
1.72E-183	1.046953699	0.59	0.206	5.52E-179	10 SLC22A2
6.60E-163	1.043371235	0.644	0.262	2.12E-158	10 AC098650.1
4.46E-239	1.038809573	0.38	0.073	1.43E-234	10 LINC01428
1.99E-184	1.038469446	0.67	0.255	6.38E-180	10 CDHR3
3.18E-174	1.038468662	0.535	0.174	1.02E-169	10 MMADHC-DT
6.62E-122	1.024523742	0.467	0.177	2.13E-117	10 MB21D2
7.55E-137	1.021145202	0.85	0.597	2.42E-132	10 CCDC198
1.75E-141	1.017629652	0.868	0.642	5.61E-137	10 NFIB
3.34E-246	1.017171643	0.954	0.372	1.07E-241	10 ACSM2A
5.80E-237	1.012669061	0.451	0.103	1.86E-232	10 AR
4.32E-128	1.010604055	0.798	0.507	1.39E-123	10 NFIA
1.17E-106	1.009889833	0.814	0.683	3.77E-102	10 TRIO
1.28E-140	1.003172258	0.26	0.055	4.10E-136	10 PGGHG
1.34E-87	1.00074012	0.434	0.182	4.29E-83	10 ZNF804B
2.25E-103	0.998606877	0.713	0.42	7.22E-99	10 COL4A2
3.45E-129	0.996360934	0.848	0.626	1.11E-124	10 SORBS2
3.25E-90	0.994062041	0.594	0.316	1.05E-85	10 COL4A1
5.07E-75	0.98937705	0.545	0.297	1.63E-70	10 ABCB1
0	0.981470694	0.366	0.02	0	10 HAVCR1
9.86E-78	0.978644205	0.467	0.229	3.17E-73	10 UBC
1.01E-72	0.972670527	0.331	0.133	3.24E-68	10 NFKBIA
1.61E-298	0.969407509	0.345	0.049	5.19E-294	10 TNFAIP2
7.48E-62	0.968542573	0.586	0.374	2.40E-57	10 MYO5B
3.54E-113	0.958937168	0.803	0.564	1.14E-108	10 CNKSR3
0	0.958735801	0.46	0.08	0	10 UGT2A3
5.01E-108	0.958434535	0.538	0.242	1.61E-103	10 KIF26B
2.13E-78	0.957766858	0.672	0.446	6.83E-74	10 AL358113.1
2.01E-199	0.95672485	0.764	0.279	6.45E-195	10 SLC17A1
5.05E-83	0.951150595	0.649	0.416	1.62E-78	10 MAP3K1
2.18E-94	0.951132356	0.338	0.116	7.00E-90	10 UNC5D
3.47E-148	0.948856429	0.642	0.256	1.11E-143	10 RASSF4
1.38E-120	0.94674452	0.596	0.256	4.43E-116	10 AC008554.1
1.72E-117	0.944422437	0.413	0.145	5.52E-113	10 GPC4
8.47E-117	0.941736604	0.768	0.437	2.72E-112	10 GALNT14
9.13E-93	0.93467006	0.443	0.185	2.93E-88	10 ZFP36
4.49E-136	0.934035166	0.76	0.381	1.44E-131	10 CNTN4
3.39E-121	0.933388441	0.478	0.176	1.09E-116	10 ABI3BP
3.33E-157	0.929098505	0.354	0.087	1.07E-152	10 KCNT2
1.13E-280	0.928410758	0.347	0.052	3.64E-276	10 TLL1
9.54E-208	0.928056661	0.531	0.15	3.06E-203	10 ZEB2
0	0.92786917	0.297	0.03	0	10 LINC02471
9.46E-97	0.924097705	0.716	0.487	3.04E-92	10 UBE2D2
8.70E-76	0.914235012	0.715	0.502	2.79E-71	10 KIFC3
1.12E-233	0.911516359	0.49	0.12	3.60E-229	10 HNF4G
0	0.91081956	0.446	0.073	0	10 SEL1L3
5.71E-109	0.91081093	0.862	0.618	1.83E-104	10 LINC02532
5.09E-225	0.910683112	0.502	0.128	1.64E-220	10 EPB41L2
3.38E-101	0.907070389	0.814	0.645	1.09E-96	10 PTPRK

1.80E-107	0.901064548	0.445	0.171	5.79E-103	10 TENM3
1.04E-224	0.897825548	0.513	0.132	3.34E-220	10 KLHL29
4.29E-118	0.894376718	0.769	0.418	1.38E-113	10 NLGN1
4.61E-71	0.893050664	0.54	0.308	1.48E-66	10 ZFP36L1
5.50E-285	0.890525466	0.42	0.076	1.77E-280	10 TSPAN18
2.42E-121	0.889377635	0.732	0.422	7.76E-117	10 OSBPL10
2.86E-132	0.884750993	0.321	0.085	9.20E-128	10 ANO9
6.20E-90	0.870185605	0.431	0.173	1.99E-85	10 SLC47A2
2.79E-74	0.869308284	0.423	0.194	8.95E-70	10 AQP4-AS1
1.10E-174	0.868269991	0.558	0.187	3.52E-170	10 C12orf75
3.59E-68	0.861818205	0.471	0.217	1.15E-63	10 SLC13A1
2.70E-87	0.860430909	0.553	0.289	8.67E-83	10 LPGAT1
2.30E-98	0.856939298	0.469	0.195	7.40E-94	10 PXYLP1
6.02E-190	0.856710796	0.39	0.092	1.93E-185	10 RHOB
1.60E-61	0.853347611	0.577	0.364	5.15E-57	10 B4GALT5
3.73E-124	0.852822473	0.497	0.178	1.20E-119	10 AC004053.1
6.82E-198	0.852736426	0.317	0.061	2.19E-193	10 SATB2
6.99E-133	0.849953393	0.749	0.375	2.24E-128	10 RERG
4.47E-102	0.847417997	0.564	0.239	1.43E-97	10 AC096577.1
1.01E-54	0.842145315	0.308	0.132	3.25E-50	10 ATF3
7.87E-97	0.839823678	0.491	0.203	2.53E-92	10 RMST
1.98E-262	0.838695923	0.281	0.037	6.37E-258	10 AFF2
8.41E-100	0.833771426	0.57	0.281	2.70E-95	10 MALT1
2.26E-149	0.833421845	0.494	0.166	7.26E-145	10 AF228730.5
2.87E-151	0.83154813	0.923	0.754	9.22E-147	10 PTPRM
5.09E-123	0.831187409	0.461	0.17	1.63E-118	10 AC005062.1
9.13E-45	0.825231326	0.385	0.21	2.93E-40	10 LSAMP
2.74E-207	0.824672626	0.901	0.343	8.81E-203	10 ACSM2B
7.42E-119	0.822650686	0.506	0.196	2.38E-114	10 ROR1
1.59E-77	0.820247526	0.651	0.385	5.11E-73	10 PDGFC
2.27E-128	0.819477726	0.511	0.19	7.28E-124	10 FIGN
6.97E-179	0.813570019	0.687	0.237	2.24E-174	10 GLYAT
6.45E-95	0.811568723	0.712	0.374	2.07E-90	10 KCNJ15
2.20E-57	0.811407541	0.578	0.374	7.07E-53	10 ZNF608
1.38E-78	0.810571551	0.555	0.3	4.44E-74	10 RRAS2
5.59E-51	0.80843673	0.368	0.182	1.80E-46	10 HSPA1B
1.36E-101	0.807647502	0.594	0.293	4.37E-97	10 ZNF462
6.43E-113	0.806064123	0.471	0.179	2.06E-108	10 PLXNA2
6.11E-95	0.805979199	0.571	0.278	1.96E-90	10 SEMA6A
1.82E-112	0.80514004	0.619	0.296	5.86E-108	10 AC126283.2
3.50E-189	0.802765251	0.339	0.071	1.12E-184	10 PLA2G4C
3.81E-53	0.798950249	0.742	0.581	1.22E-48	10 WWC1
4.36E-120	0.795394569	0.304	0.082	1.40E-115	10 MIR31HG
1.53E-99	0.794712563	0.402	0.146	4.92E-95	10 SYNDIG1
2.37E-152	0.794591162	0.391	0.107	7.61E-148	10 ITGB3
8.19E-118	0.793651433	0.312	0.086	2.63E-113	10 ENPP1
1.60E-26	0.791792974	0.497	0.361	5.14E-22	10 NTN4
9.36E-80	0.784030475	0.741	0.515	3.01E-75	10 ZNF83
2.69E-49	0.783790925	0.765	0.579	8.63E-45	10 TRABD2B
2.47E-103	0.778717578	0.351	0.117	7.92E-99	10 KHDRBS2
4.18E-194	0.777290014	0.496	0.14	1.34E-189	10 MCTP2

8.61E-204	0.776473231	0.321	0.061	2.76E-199	10 IL17RB
1.47E-46	0.773489048	0.289	0.131	4.71E-42	10 HSPA1A
2.63E-131	0.771709917	0.309	0.079	8.46E-127	10 SLC35F3
1.12E-164	0.764409143	0.447	0.131	3.60E-160	10 SLC41A2
4.51E-144	0.7640347	0.399	0.113	1.45E-139	10 RBMS3
1.25E-07	0.753204906	0.367	0.298	0.004011225	10 PLCB4
4.79E-118	0.751711782	0.61	0.266	1.54E-113	10 PDZK1
1.30E-70	0.750156483	0.45	0.208	4.17E-66	10 TENM4
5.79E-95	0.746531044	0.729	0.436	1.86E-90	10 FAT1
1.55E-82	0.743069363	0.8	0.588	4.97E-78	10 NBEA
3.49E-120	0.74098589	0.471	0.177	1.12E-115	10 FGD6
2.36E-167	0.740834585	0.573	0.182	7.58E-163	10 SLC28A1
2.09E-84	0.740314313	0.85	0.736	6.72E-80	10 PICALM
1.37E-79	0.738933787	0.559	0.286	4.39E-75	10 RANBP17
1.00E-149	0.738042568	0.361	0.092	3.22E-145	10 AL033381.1
3.90E-85	0.737474848	0.427	0.181	1.25E-80	10 ENAH
6.23E-150	0.736744165	0.321	0.078	2.00E-145	10 CLDN4
3.21E-95	0.734718444	0.651	0.342	1.03E-90	10 SLC1A1
7.34E-112	0.731830036	0.871	0.608	2.36E-107	10 L3MBTL4
2.72E-102	0.724244449	0.404	0.146	8.75E-98	10 PHYHIPL
1.10E-99	0.721916936	0.319	0.101	3.53E-95	10 UBTD1
1.29E-68	0.72188888	0.361	0.154	4.14E-64	10 ALDH1A1
8.05E-80	0.721851839	0.482	0.229	2.59E-75	10 AC068234.1
1.88E-123	0.720436421	0.423	0.145	6.03E-119	10 USP31
2.96E-66	0.717620146	0.618	0.372	9.50E-62	10 MFSD14B
2.80E-86	0.716903539	0.709	0.435	9.00E-82	10 AC105233.4
1.38E-73	0.716125768	0.648	0.356	4.43E-69	10 NOX4
2.67E-75	0.715414369	0.907	0.799	8.56E-71	10 PLEKHA5
1.84E-50	0.714776993	0.388	0.2	5.91E-46	10 TPK1
1.69E-70	0.709607923	0.742	0.545	5.42E-66	10 EPB41L4A
5.94E-205	0.708562742	0.46	0.113	1.91E-200	10 USH1C
1.81E-91	0.706084789	0.279	0.086	5.83E-87	10 EGOT
1.90E-173	0.705726447	0.367	0.086	6.10E-169	10 LINC00475
2.13E-152	0.705516218	0.377	0.1	6.85E-148	10 SPNS2
3.49E-122	0.704905898	0.41	0.137	1.12E-117	10 PLS1
1.23E-291	0.703801474	0.274	0.031	3.96E-287	10 PXDN
3.20E-84	0.698288597	0.519	0.255	1.03E-79	10 HYDIN
1.04E-90	0.698012972	0.568	0.287	3.33E-86	10 STX3
5.41E-200	0.693910815	0.256	0.04	1.74E-195	10 PIWIL4
1.92E-110	0.692832134	0.604	0.266	6.18E-106	10 TENM1
5.38E-150	0.691680908	0.288	0.062	1.73E-145	10 LINC01781
3.44E-101	0.690400327	0.593	0.277	1.10E-96	10 AC007319.1
1.48E-69	0.690327079	0.872	0.736	4.77E-65	10 OXR1
6.02E-90	0.689717079	0.472	0.205	1.93E-85	10 AP000295.1
7.23E-61	0.687042156	0.816	0.66	2.32E-56	10 PAX8-AS1
2.72E-100	0.687028716	0.506	0.222	8.75E-96	10 RHPN2
2.12E-59	0.68527569	0.299	0.12	6.82E-55	10 H2AC6
4.61E-71	0.685205016	0.873	0.769	1.48E-66	10 FARP1
3.88E-42	0.683017775	0.536	0.357	1.24E-37	10 JADE1
4.86E-72	0.680700538	0.812	0.685	1.56E-67	10 NUMB
2.78E-92	0.680238761	0.899	0.784	8.94E-88	10 AGAP1

6.75E-63	0.679775518	0.815	0.591	2.17E-58	10 ADAMTS9
6.88E-114	0.679578263	0.462	0.171	2.21E-109	10 IQCA1
1.84E-43	0.67829651	0.559	0.357	5.89E-39	10 LMCD1-AS1
5.61E-101	0.674409267	0.614	0.279	1.80E-96	10 CNTNAP3P2
4.57E-78	0.669832117	0.564	0.306	1.47E-73	10 BEND7
4.89E-77	0.665486584	0.615	0.331	1.57E-72	10 C9
1.74E-67	0.66407907	0.85	0.779	5.59E-63	10 AOPEP
1.30E-66	0.663803474	0.414	0.191	4.17E-62	10 ITGA3
6.20E-85	0.663256587	0.58	0.28	1.99E-80	10 LINC01515
4.23E-118	0.661284956	0.345	0.103	1.36E-113	10 LINC01322
2.94E-37	0.65949543	0.39	0.217	9.43E-33	10 FGF14
1.00E-80	0.658095682	0.493	0.226	3.21E-76	10 NR1H4
5.03E-55	0.657314864	0.693	0.538	1.62E-50	10 DIP2B
4.68E-93	0.655812528	0.52	0.226	1.50E-88	10 CNTNAP3
1.29E-180	0.655105394	0.336	0.073	4.15E-176	10 SBSPON
1.87E-190	0.654256652	0.396	0.092	5.99E-186	10 AC092894.1
4.50E-88	0.65410718	0.676	0.346	1.44E-83	10 CNTNAP3B
1.08E-72	0.650976947	0.649	0.384	3.48E-68	10 DIAPH2
1.21E-56	0.647272318	0.689	0.489	3.88E-52	10 TBC1D19
6.82E-91	0.646974348	0.478	0.201	2.19E-86	10 ZNF826P
5.24E-32	0.646146899	0.448	0.282	1.68E-27	10 LINC00871
2.69E-160	0.64572245	0.381	0.099	8.65E-156	10 NEK6
5.40E-62	0.643509894	0.721	0.521	1.74E-57	10 ARHGAP32
1.25E-99	0.6414131	0.587	0.257	4.01E-95	10 SLC47A1
3.74E-123	0.640365695	0.323	0.088	1.20E-118	10 HKDC1
3.81E-55	0.638727138	0.718	0.503	1.23E-50	10 AUTS2
8.89E-46	0.638049932	0.427	0.238	2.85E-41	10 NPR3
4.84E-238	0.637695661	0.267	0.036	1.55E-233	10 NXNL2
1.04E-74	0.637435184	0.433	0.198	3.32E-70	10 TNFRSF10B
8.13E-50	0.63737292	0.546	0.331	2.61E-45	10 AL139807.1
9.37E-57	0.636203262	0.655	0.414	3.01E-52	10 EPS8L2
2.79E-76	0.632291998	0.502	0.245	8.96E-72	10 DCDC1
1.14E-72	0.629982286	0.938	0.878	3.66E-68	10 SYNE2
6.10E-49	0.625292576	0.709	0.517	1.96E-44	10 ST7
7.09E-150	0.622129883	0.657	0.265	2.28E-145	10 CALD1
4.23E-49	0.620331967	0.772	0.629	1.36E-44	10 SCMHI
5.76E-66	0.619435574	0.682	0.427	1.85E-61	10 EGFR
4.86E-52	0.616642463	0.441	0.229	1.56E-47	10 ANKS1B
2.73E-78	0.614726357	0.322	0.118	8.78E-74	10 RASEF
1.11E-44	0.613938894	0.779	0.674	3.56E-40	10 EXT1
3.89E-131	0.613593527	0.629	0.248	1.25E-126	10 ARHGAP10
1.43E-46	0.613426362	0.704	0.534	4.60E-42	10 SVIL
1.73E-105	0.612661363	0.463	0.174	5.55E-101	10 ABCC6
2.07E-65	0.611428015	0.83	0.678	6.63E-61	10 PLXDC2
5.85E-76	0.61002658	0.377	0.151	1.88E-71	10 MGST1
9.51E-96	0.609744373	0.486	0.207	3.06E-91	10 KALRN
9.18E-193	0.609743175	0.293	0.053	2.95E-188	10 BMX
2.69E-52	0.607428398	0.839	0.704	8.65E-48	10 UBE2E2
1.09E-81	0.606558109	0.409	0.161	3.49E-77	10 KCNIP1
3.60E-241	0.605474452	0.274	0.038	1.16E-236	10 AC111000.4
1.41E-43	0.603193044	0.591	0.402	4.52E-39	10 ANXA4

3.00E-80	0.602578511	0.411	0.17	9.65E-76	10 POU5F1
4.86E-154	0.60242572	0.449	0.132	1.56E-149	10 DNMI
4.38E-18	0.601647133	0.32	0.208	1.41E-13	10 NAMPT
1.41E-16	0.599865589	0.268	0.172	4.52E-12	10 TP53BP2
3.49E-72	0.598753527	0.335	0.133	1.12E-67	10 MTCL1
6.01E-49	0.598650721	0.505	0.306	1.93E-44	10 BMP2K
1.42E-45	0.598159194	0.8	0.672	4.57E-41	10 PLEKHA7
1.02E-71	0.597528737	0.905	0.875	3.26E-67	10 LPP
5.36E-76	0.592045248	0.831	0.58	1.72E-71	10 AC068587.4
4.14E-46	0.591750342	0.657	0.425	1.33E-41	10 CPM
1.72E-51	0.591155774	0.752	0.611	5.53E-47	10 SIPA1L1
1.19E-75	0.587250046	0.447	0.206	3.81E-71	10 HYDIN2
4.83E-64	0.586843751	0.478	0.238	1.55E-59	10 ADAMTS9-AS1
1.38E-44	0.583820341	0.692	0.516	4.42E-40	10 RNF19A
2.09E-41	0.583522134	0.624	0.464	6.71E-37	10 CASK
1.86E-61	0.583168391	0.383	0.17	5.98E-57	10 SLC12A7
2.19E-49	0.581730306	0.728	0.517	7.04E-45	10 PAX8
3.27E-51	0.580147813	0.493	0.275	1.05E-46	10 PCDHGA1
2.23E-42	0.580106543	0.456	0.276	7.15E-38	10 PLSCR1
1.88E-48	0.579942879	0.767	0.619	6.04E-44	10 PPP1R9A
1.19E-138	0.579103547	0.368	0.1	3.83E-134	10 AL358232.1
4.12E-45	0.577259011	0.349	0.172	1.32E-40	10 AHR
4.26E-46	0.576236237	0.494	0.303	1.37E-41	10 AGPS
1.66E-66	0.575467736	0.59	0.328	5.34E-62	10 KIF21A
8.03E-55	0.574837955	0.476	0.257	2.58E-50	10 SLC44A3
5.90E-80	0.572435188	0.4	0.168	1.89E-75	10 RASSF6
5.37E-70	0.5722378	0.36	0.146	1.73E-65	10 JUN
7.15E-46	0.569247424	0.734	0.584	2.29E-41	10 SPTBN1
9.43E-54	0.559134825	0.55	0.335	3.03E-49	10 MAP4K4
1.43E-116	0.558069137	0.365	0.114	4.58E-112	10 CORO1C
3.06E-47	0.557435648	0.608	0.396	9.82E-43	10 GULP1
2.37E-43	0.55640512	0.571	0.378	7.62E-39	10 PDZD8
5.03E-55	0.555638297	0.589	0.371	1.62E-50	10 CCDC14
1.78E-31	0.55531084	0.612	0.412	5.72E-27	10 ANK2
7.23E-78	0.554215188	0.493	0.228	2.32E-73	10 RGS12
5.40E-133	0.553614015	0.543	0.181	1.73E-128	10 DPYS
4.68E-92	0.552358846	0.47	0.19	1.50E-87	10 GIPC2
4.80E-79	0.551407674	0.404	0.165	1.54E-74	10 RIPOR3
6.75E-44	0.547069996	0.553	0.34	2.17E-39	10 PDE7A
1.33E-58	0.547026138	0.854	0.774	4.26E-54	10 CUX1
2.64E-189	0.546583132	0.29	0.052	8.48E-185	10 VIM
1.30E-57	0.546492352	0.542	0.307	4.18E-53	10 ADCY9
2.00E-56	0.546099647	0.398	0.192	6.42E-52	10 HOGA1
2.34E-32	0.546030432	0.453	0.29	7.53E-28	10 FUT8
6.09E-47	0.544816988	0.477	0.271	1.96E-42	10 ANKRD6
1.78E-35	0.544592738	0.719	0.557	5.70E-31	10 P3H2
2.81E-45	0.542108639	0.72	0.56	9.03E-41	10 PAM
1.31E-77	0.539461562	0.265	0.084	4.21E-73	10 ARHGAP29-AS1
8.03E-37	0.538841167	0.364	0.199	2.58E-32	10 RNF144B
8.50E-56	0.538148222	0.816	0.645	2.73E-51	10 EHBP1
4.05E-174	0.536889749	0.255	0.044	1.30E-169	10 MIR34AHG

6.27E-31	0.53662029	0.511	0.353	2.01E-26	10 NFKB1
3.38E-124	0.536010367	0.333	0.092	1.08E-119	10 GATM
3.23E-37	0.535576191	0.471	0.289	1.04E-32	10 YPEL2
2.11E-65	0.534303514	0.352	0.14	6.78E-61	10 PDZK1IP1
7.76E-44	0.531758705	0.654	0.471	2.49E-39	10 ITGAV
1.47E-43	0.53110936	0.619	0.423	4.72E-39	10 CEP112
1.95E-50	0.528442466	0.352	0.16	6.26E-46	10 CXXC4-AS1
8.25E-97	0.52793576	0.351	0.117	2.65E-92	10 TMEM176B
4.97E-79	0.527927294	0.324	0.116	1.60E-74	10 ACTN1
9.77E-110	0.525935707	0.311	0.088	3.14E-105	10 PROS1
7.38E-42	0.523574478	0.633	0.428	2.37E-37	10 BICDL1
1.12E-69	0.522658859	0.491	0.234	3.61E-65	10 CABLES1
8.83E-39	0.52170392	0.666	0.507	2.84E-34	10 CFDP1
5.21E-94	0.520872515	0.309	0.098	1.67E-89	10 LACTB2-AS1
2.49E-53	0.518958542	0.288	0.118	8.00E-49	10 SLC25A21
2.82E-24	0.518890872	0.81	0.726	9.04E-20	10 GLS
3.70E-30	0.518820929	0.727	0.568	1.19E-25	10 DCDC2
5.82E-134	0.51746206	0.371	0.103	1.87E-129	10 MYO7B
2.99E-62	0.517175236	0.374	0.164	9.61E-58	10 LRRIQ1
2.53E-88	0.51708431	0.732	0.426	8.14E-84	10 EPS8
3.02E-39	0.516613057	0.46	0.27	9.71E-35	10 LINC01572
4.30E-41	0.515861527	0.771	0.634	1.38E-36	10 TNS3
4.12E-107	0.515251302	0.385	0.127	1.32E-102	10 LINC01697
4.81E-37	0.513047488	0.473	0.285	1.55E-32	10 AL050309.1
8.28E-50	0.511221666	0.935	0.864	2.66E-45	10 ANK3
1.59E-66	0.51091574	0.321	0.126	5.09E-62	10 FLVCR2
6.76E-76	0.508549312	0.553	0.252	2.17E-71	10 TINAG
3.18E-36	0.508187643	0.285	0.137	1.02E-31	10 AL031599.1
1.18E-43	0.507013384	0.547	0.348	3.79E-39	10 ADGRA3
2.25E-146	0.506249564	0.302	0.068	7.23E-142	10 LDLRAD3
2.83E-64	0.505946219	0.464	0.222	9.10E-60	10 AC010894.2
2.03E-36	0.504384315	0.739	0.617	6.51E-32	10 TBL1XR1
4.72E-98	0.503362939	0.33	0.105	1.52E-93	10 AFF3
1.13E-57	0.502642011	0.512	0.276	3.63E-53	10 SNX30
2.79E-72	0.500691888	0.412	0.172	8.97E-68	10 DOK6
1.26E-96	0.500383121	0.642	0.284	4.05E-92	10 ENPEP
2.88E-39	0.499010932	0.395	0.216	9.25E-35	10 ZMIZ2
9.55E-56	0.49886279	0.324	0.137	3.07E-51	10 NSMF
2.98E-80	0.498444633	0.537	0.245	9.56E-76	10 DOCK8
5.49E-51	0.496515298	0.397	0.197	1.76E-46	10 PLCH1
1.53E-68	0.496242616	0.485	0.226	4.91E-64	10 RGL1
2.51E-63	0.495349908	0.967	0.845	8.07E-59	10 LRMDA
8.56E-38	0.494588256	0.259	0.12	2.75E-33	10 LINC00907
1.04E-62	0.494502046	0.253	0.091	3.34E-58	10 PROSER2
5.12E-42	0.494207005	0.551	0.349	1.65E-37	10 PPP1R13B
3.89E-47	0.493800721	0.615	0.405	1.25E-42	10 NEO1
1.39E-235	0.493702848	0.271	0.038	4.46E-231	10 PCA3
2.82E-26	0.49146831	0.8	0.657	9.07E-22	10 MAST4
4.01E-40	0.48976262	0.828	0.721	1.29E-35	10 KANSL1L
5.28E-114	0.488825237	0.326	0.093	1.70E-109	10 DNAH5
1.36E-35	0.48820807	0.623	0.454	4.38E-31	10 JAK1

5.10E-89	0.487953879	0.275	0.083	1.64E-84	10 ANTXR1
4.07E-18	0.485027259	0.337	0.219	1.31E-13	10 TXNRD1
1.64E-114	0.484641167	0.324	0.09	5.28E-110	10 ABLIM3
2.43E-25	0.483500308	0.522	0.369	7.79E-21	10 HIVEP1
6.40E-34	0.482144947	0.591	0.4	2.06E-29	10 CCNL2
3.55E-56	0.480980316	0.439	0.22	1.14E-51	10 CAP2
1.89E-34	0.479165947	0.619	0.441	6.06E-30	10 CDR2
3.54E-29	0.47874563	0.708	0.593	1.14E-24	10 WWC2
1.22E-35	0.478322911	0.517	0.32	3.93E-31	10 LDLRAD4
8.59E-35	0.478144715	0.335	0.181	2.76E-30	10 SHROOM2
2.42E-32	0.476268352	0.686	0.527	7.78E-28	10 NR6A1
2.76E-50	0.475883511	0.489	0.266	8.88E-46	10 CDK10
2.12E-106	0.475644921	0.652	0.304	6.80E-102	10 ABCC4
3.27E-52	0.475530696	0.459	0.248	1.05E-47	10 SHTN1
2.71E-38	0.474796247	0.71	0.54	8.70E-34	10 CMIP
1.59E-46	0.47423116	0.574	0.358	5.10E-42	10 ENPP7P6
6.47E-53	0.473998177	0.312	0.134	2.08E-48	10 GRM5
1.54E-45	0.473388642	0.277	0.124	4.93E-41	10 FTH1
2.35E-24	0.471999531	0.728	0.614	7.55E-20	10 SPAG9
1.53E-55	0.471710581	0.902	0.79	4.91E-51	10 RBPMS
7.62E-28	0.471606707	0.676	0.534	2.45E-23	10 ZHX2
5.30E-79	0.471538311	0.344	0.122	1.70E-74	10 LINC02027
7.07E-23	0.470916662	0.486	0.351	2.27E-18	10 STON2
1.80E-53	0.470696071	0.34	0.146	5.77E-49	10 CDH9
4.28E-74	0.470529613	0.972	0.967	1.38E-69	10 ZBTB20
1.75E-43	0.468424546	0.604	0.398	5.62E-39	10 CAMK2D
1.03E-97	0.467564479	0.29	0.085	3.31E-93	10 RBP5
2.78E-45	0.466953944	0.594	0.372	8.92E-41	10 FRMD4B
8.02E-24	0.466817306	0.382	0.246	2.58E-19	10 KHDRBS3
4.05E-53	0.465358109	0.332	0.145	1.30E-48	10 ENPP7P7
3.75E-58	0.465077425	0.535	0.283	1.20E-53	10 KIAA1549
1.21E-28	0.46374332	0.572	0.406	3.89E-24	10 ASTN2
1.32E-67	0.46204566	0.316	0.118	4.23E-63	10 C4B
2.09E-51	0.461577261	0.338	0.153	6.71E-47	10 WDR13
1.29E-113	0.461241107	0.258	0.063	4.13E-109	10 ZSWIM4
7.65E-41	0.460643043	0.509	0.297	2.46E-36	10 ALCAM
4.67E-75	0.460118472	0.277	0.092	1.50E-70	10 DPYSL2
2.73E-40	0.458824977	0.463	0.256	8.78E-36	10 Z93403.1
3.48E-34	0.455040875	0.291	0.147	1.12E-29	10 PNPLA2
2.08E-57	0.454328634	0.698	0.434	6.68E-53	10 SUGCT
1.96E-58	0.454194998	0.474	0.229	6.30E-54	10 AL391117.1
2.36E-31	0.454040703	0.572	0.421	7.58E-27	10 VPS41
2.32E-41	0.453739258	0.739	0.59	7.46E-37	10 VPS13A
4.01E-25	0.453666941	0.292	0.163	1.29E-20	10 GDF15
7.96E-36	0.453114807	0.578	0.387	2.56E-31	10 SLC3A1
2.96E-44	0.452846518	0.441	0.238	9.50E-40	10 NPAS2
1.90E-38	0.4526634	0.67	0.489	6.09E-34	10 SH3D19
1.45E-27	0.452302708	0.378	0.233	4.67E-23	10 EEF1A1
5.66E-51	0.450681434	0.535	0.297	1.82E-46	10 NR3C1
6.10E-27	0.450521223	0.737	0.63	1.96E-22	10 ARHGEF28
4.59E-17	0.449005927	0.256	0.153	1.47E-12	10 EGR1

1.96E-24	0.447914923	0.283	0.16	6.28E-20	10 RFTN1
4.29E-40	0.447438216	0.404	0.224	1.38E-35	10 ABCC1
2.49E-58	0.446563927	0.335	0.142	8.00E-54	10 AC127526.2
5.09E-106	0.446100219	0.393	0.133	1.63E-101	10 OCIAD2
1.77E-17	0.445708996	0.33	0.216	5.68E-13	10 NLGN4Y
5.64E-26	0.445566606	0.613	0.463	1.81E-21	10 FLNB
6.81E-28	0.444873709	0.445	0.288	2.19E-23	10 LAMC1
1.85E-36	0.443434764	0.896	0.793	5.94E-32	10 MAML2
6.32E-21	0.442774009	0.506	0.376	2.03E-16	10 ATP13A3
2.17E-19	0.442771222	0.549	0.447	6.98E-15	10 AGFG1
2.67E-50	0.442255556	0.372	0.178	8.58E-46	10 BAZ1A
1.74E-31	0.441822722	0.402	0.244	5.58E-27	10 TRIM38
1.18E-37	0.441350834	0.45	0.269	3.79E-33	10 GAB2
2.11E-32	0.440260373	0.819	0.742	6.76E-28	10 WDFY3
5.05E-84	0.44022592	0.251	0.073	1.62E-79	10 FGFR4
3.30E-23	0.438471043	0.687	0.576	1.06E-18	10 STRN3
2.07E-89	0.437935212	0.584	0.243	6.65E-85	10 PAH
3.83E-24	0.43713637	0.569	0.409	1.23E-19	10 ZNF124
1.83E-27	0.43476633	0.712	0.604	5.87E-23	10 CD2AP
1.99E-60	0.434629861	0.256	0.09	6.38E-56	10 AJAP1
5.94E-24	0.434189104	0.615	0.475	1.91E-19	10 COL18A1
1.92E-80	0.433700594	0.326	0.112	6.17E-76	10 TTYH3
3.02E-27	0.433261031	0.744	0.546	9.71E-23	10 ZBTB16
2.33E-57	0.430530538	0.52	0.263	7.49E-53	10 CCNT2-AS1
1.27E-13	0.428160504	0.614	0.54	4.08E-09	10 LRRFIP2
3.35E-30	0.428113693	0.507	0.34	1.07E-25	10 SEMA4D
1.31E-43	0.427750472	0.492	0.279	4.22E-39	10 DIXDC1
1.75E-38	0.427722727	0.296	0.14	5.61E-34	10 FGFR3
3.45E-33	0.427350779	0.65	0.505	1.11E-28	10 PIK3CB
2.23E-68	0.427247915	0.375	0.155	7.18E-64	10 PDZK1P1
1.48E-23	0.426532421	0.558	0.41	4.76E-19	10 EZR
3.92E-112	0.426418999	0.336	0.097	1.26E-107	10 TFEC
7.87E-30	0.425153713	0.695	0.537	2.53E-25	10 PCAT1
2.94E-50	0.425103911	0.508	0.28	9.44E-46	10 CELSR1
2.71E-36	0.424729495	0.392	0.214	8.69E-32	10 SLCO3A1
6.58E-58	0.423931795	0.297	0.117	2.11E-53	10 TNFAIP8
4.10E-27	0.423826348	0.62	0.451	1.32E-22	10 AC009120.2
3.03E-33	0.423519144	0.689	0.538	9.74E-29	10 XPR1
2.45E-56	0.423292461	0.466	0.241	7.86E-52	10 TPTE2P6
5.90E-63	0.423103993	0.286	0.108	1.90E-58	10 SMYD2
4.27E-62	0.423098973	0.296	0.113	1.37E-57	10 LPAR6
7.47E-49	0.419236802	0.422	0.215	2.40E-44	10 AL390879.1
3.16E-47	0.41827733	0.422	0.221	1.01E-42	10 RNF217
1.68E-34	0.418239218	0.47	0.292	5.39E-30	10 BIVM
2.13E-65	0.41815671	0.575	0.283	6.86E-61	10 MIR100HG
3.45E-27	0.4160497	0.707	0.536	1.11E-22	10 NPIPBI2
1.01E-26	0.415791453	0.604	0.446	3.26E-22	10 PUM3
5.19E-35	0.415069678	0.688	0.506	1.67E-30	10 MAP3K13
6.48E-36	0.414611153	0.559	0.359	2.08E-31	10 PLEKHA6
9.24E-34	0.414230876	0.66	0.489	2.97E-29	10 SMG1P3
8.28E-56	0.412623167	0.336	0.145	2.66E-51	10 NABP1

1.53E-57	0.411778355	0.367	0.163	4.90E-53	10 NECTIN3
6.65E-31	0.411249218	0.496	0.318	2.14E-26	10 RRBPI
1.65E-34	0.410614146	0.502	0.317	5.29E-30	10 STK38
1.09E-33	0.408824591	0.483	0.295	3.52E-29	10 AC092683.1
3.87E-29	0.408221456	0.736	0.585	1.24E-24	10 PTPRJ
7.05E-51	0.407091104	0.255	0.1	2.26E-46	10 CD151
3.71E-29	0.406780432	0.256	0.13	1.19E-24	10 PPP1R26-AS1
7.61E-37	0.405995806	0.329	0.164	2.44E-32	10 FIGNL1
1.48E-44	0.405924439	0.433	0.232	4.74E-40	10 ATP11C
1.17E-96	0.405157694	0.263	0.071	3.75E-92	10 AC003984.1
6.98E-37	0.404130317	0.279	0.131	2.24E-32	10 GSDME
1.41E-33	0.403920138	0.333	0.176	4.53E-29	10 PLXNB2
1.81E-55	0.402165483	0.386	0.184	5.82E-51	10 CTTNBP2NL
1.43E-63	0.402008633	0.291	0.111	4.59E-59	10 LINC01948
2.81E-23	0.401056558	0.438	0.289	9.02E-19	10 LINC01090
1.14E-29	0.400575869	0.256	0.129	3.66E-25	10 HAVCR2
3.30E-21	0.398354199	0.66	0.508	1.06E-16	10 ANKRD36C
7.80E-33	0.398224877	0.282	0.141	2.50E-28	10 DNAJC6
5.28E-18	0.398022639	0.497	0.379	1.70E-13	10 SESTD1
1.50E-79	0.39771977	0.258	0.078	4.80E-75	10 FMO1
7.52E-27	0.397540212	0.612	0.451	2.42E-22	10 AC079781.5
2.96E-27	0.397287426	0.642	0.483	9.51E-23	10 CCDC30
2.27E-26	0.397120774	0.789	0.655	7.28E-22	10 INSR
1.09E-43	0.396970148	0.492	0.271	3.49E-39	10 CTTNBP2
3.63E-62	0.39691009	0.682	0.399	1.17E-57	10 GRB10
1.72E-13	0.39680282	0.334	0.231	5.51E-09	10 GK
1.13E-39	0.395669377	0.63	0.405	3.64E-35	10 MCF2L
1.27E-28	0.395518693	0.413	0.251	4.08E-24	10 EVA1A
1.52E-19	0.394797704	0.501	0.361	4.89E-15	10 MDM2
4.52E-25	0.394776996	0.624	0.467	1.45E-20	10 COBL
8.79E-42	0.394350575	0.44	0.238	2.82E-37	10 ARSB
3.62E-42	0.394199213	0.417	0.234	1.16E-37	10 ENO4
7.21E-43	0.392932563	0.292	0.131	2.31E-38	10 BBOX1-AS1
2.21E-19	0.392906334	0.702	0.58	7.11E-15	10 TNS1
3.18E-112	0.392754193	0.26	0.063	1.02E-107	10 PRAG1
9.75E-46	0.392708014	0.388	0.197	3.13E-41	10 LBR
2.82E-38	0.392602617	0.418	0.23	9.07E-34	10 SLC2A13
3.37E-35	0.3921487	0.649	0.469	1.08E-30	10 FCHSD2
3.80E-70	0.387565146	0.457	0.199	1.22E-65	10 SHMT1
5.75E-33	0.386893285	0.296	0.15	1.85E-28	10 SLCO4C1
1.91E-32	0.38596298	0.663	0.457	6.13E-28	10 ANKRD36B
6.23E-66	0.38582885	0.324	0.124	2.00E-61	10 CHDH
3.34E-17	0.385481323	0.502	0.38	1.07E-12	10 PTPN1
1.61E-37	0.384697883	0.397	0.218	5.18E-33	10 LRRC1
2.89E-21	0.384636266	0.425	0.292	9.29E-17	10 TUSC3
2.20E-52	0.384430892	0.297	0.124	7.05E-48	10 SSX2IP
8.02E-60	0.384055849	0.393	0.165	2.57E-55	10 SLC17A3
1.47E-35	0.383714848	0.384	0.204	4.73E-31	10 LINC01239
1.69E-20	0.383424737	0.462	0.327	5.43E-16	10 PISD
5.82E-26	0.382119147	0.676	0.549	1.87E-21	10 ANKIB1
4.98E-23	0.382114996	0.791	0.688	1.60E-18	10 FHOD3

4.43E-21	0.381388307	0.6	0.471	1.42E-16	10 ETV6
9.69E-68	0.380446786	0.275	0.095	3.11E-63	10 OR2T11
4.82E-29	0.377696508	0.804	0.68	1.55E-24	10 ABLIM1
1.76E-34	0.377373066	0.418	0.24	5.66E-30	10 AC127526.3
4.42E-45	0.37603007	0.383	0.194	1.42E-40	10 FANK1
6.04E-06	0.375374523	0.427	0.361	0.194123829	10 HSP90AA1
3.31E-37	0.374544514	0.698	0.498	1.06E-32	10 MIA2
1.27E-20	0.374433131	0.441	0.297	4.09E-16	10 5-8S-rRNA
6.57E-34	0.374331344	0.428	0.25	2.11E-29	10 TRAF3
2.57E-31	0.373586341	0.415	0.248	8.24E-27	10 DTX2P1-UPK3B
2.21E-34	0.373422046	0.695	0.544	7.11E-30	10 PDLIM5
7.70E-24	0.373399945	0.451	0.306	2.47E-19	10 NDFIP2
5.02E-45	0.37323221	0.466	0.252	1.61E-40	10 CNTN3
1.69E-13	0.37296068	0.459	0.354	5.44E-09	10 NRIP1
3.64E-62	0.371889391	0.292	0.112	1.17E-57	10 AC127526.1
5.44E-137	0.371196222	0.259	0.054	1.75E-132	10 PDLIM1
5.14E-31	0.370684762	0.381	0.22	1.65E-26	10 CNDP2
5.27E-29	0.370265465	0.479	0.305	1.69E-24	10 ZNF69
1.51E-12	0.370149145	0.466	0.369	4.85E-08	10 ZBTB38
2.98E-26	0.36833468	0.353	0.208	9.57E-22	10 REPS2
4.70E-43	0.367123606	0.564	0.366	1.51E-38	10 IQCJ-SCHIP1
2.69E-61	0.366489599	0.261	0.095	8.64E-57	10 KDM1B
1.59E-21	0.366168882	0.305	0.182	5.12E-17	10 OR7E14P
1.90E-29	0.365735236	0.735	0.592	6.10E-25	10 EML4
6.24E-25	0.365403818	0.58	0.411	2.01E-20	10 DNAH7
2.89E-18	0.365317622	0.275	0.17	9.28E-14	10 TBC1D8B
1.74E-15	0.365020854	0.75	0.671	5.59E-11	10 PDE8A
2.08E-20	0.364132875	0.488	0.349	6.67E-16	10 FBXL2
1.38E-34	0.363720073	0.597	0.402	4.43E-30	10 MTFR1
1.18E-32	0.363147967	0.49	0.311	3.78E-28	10 RPS6KA3
6.67E-21	0.361706319	0.58	0.442	2.14E-16	10 PHF14
4.37E-21	0.361358454	0.617	0.502	1.40E-16	10 GTF2I
4.25E-34	0.360597735	0.316	0.167	1.36E-29	10 TSPAN12
6.91E-28	0.360570781	0.678	0.522	2.22E-23	10 IFT88
2.22E-27	0.360205088	0.525	0.361	7.14E-23	10 SMG1P1
1.20E-18	0.359714035	0.761	0.659	3.87E-14	10 RNF213
5.13E-30	0.359564646	0.458	0.288	1.65E-25	10 CTTN
6.45E-42	0.359334573	0.695	0.515	2.07E-37	10 RASAL2
1.78E-42	0.358561645	0.282	0.126	5.73E-38	10 LINC01550
5.86E-21	0.358013588	0.669	0.552	1.88E-16	10 RUFY3
2.66E-29	0.35774081	0.416	0.251	8.55E-25	10 ELOVL5
2.69E-57	0.356887104	0.268	0.099	8.65E-53	10 ZNF521
8.35E-44	0.356270308	0.513	0.292	2.68E-39	10 TM7SF3
3.54E-18	0.356110654	0.605	0.485	1.14E-13	10 SLC44A3-AS1
1.67E-56	0.354881597	0.729	0.417	5.36E-52	10 SLC16A12
3.37E-49	0.354582956	0.914	0.78	1.08E-44	10 GLIS3
1.31E-29	0.353948717	0.71	0.544	4.20E-25	10 PRICKLE2
1.14E-11	0.352837122	0.52	0.422	3.67E-07	10 BICD1
6.15E-29	0.352332788	0.424	0.25	1.97E-24	10 LINC00671
2.59E-62	0.351532839	0.29	0.108	8.33E-58	10 AFAP1
1.86E-41	0.349990592	0.444	0.243	5.98E-37	10 CERS4

3.11E-48	0.349769849	0.258	0.104	9.99E-44	10 WASF1
2.61E-37	0.348997913	0.456	0.26	8.37E-33	10 CRYZL2P-SEC10
1.46E-24	0.348715345	0.539	0.38	4.69E-20	10 TTC7B
2.40E-39	0.348118789	0.334	0.164	7.71E-35	10 ANXA2
3.88E-38	0.347624679	0.368	0.194	1.24E-33	10 NIT2
4.35E-20	0.347006877	0.75	0.641	1.40E-15	10 RAPGEF2
8.03E-33	0.346652047	0.307	0.159	2.58E-28	10 PTPRF
2.05E-116	0.346285213	0.704	0.286	6.59E-112	10 FTCD
6.24E-27	0.344082988	0.29	0.153	2.00E-22	10 HDAC9
1.97E-73	0.344029469	0.291	0.099	6.32E-69	10 SCN8A
1.26E-22	0.341968166	0.418	0.272	4.05E-18	10 PFKP
1.09E-20	0.341956631	0.469	0.327	3.52E-16	10 SFMBT1
9.48E-49	0.341750555	0.344	0.157	3.04E-44	10 IL15
8.35E-23	0.340584634	0.776	0.679	2.68E-18	10 HNRNPC
6.63E-28	0.340519678	0.974	0.963	2.13E-23	10 NEAT1
2.19E-14	0.340472045	0.342	0.239	7.04E-10	10 AC090912.1
2.77E-33	0.340410913	0.852	0.785	8.91E-29	10 NPIPB3
4.54E-21	0.34029765	0.725	0.638	1.46E-16	10 MLLT10
4.95E-19	0.33884156	0.625	0.512	1.59E-14	10 TRIM44
1.28E-56	0.338578057	0.282	0.109	4.11E-52	10 SLC16A1-AS1
1.22E-12	0.338383231	0.718	0.666	3.91E-08	10 DENND1A
6.49E-23	0.33786332	0.529	0.375	2.08E-18	10 CACNA2D1
1.09E-32	0.337725602	0.271	0.134	3.49E-28	10 GRTP1
2.64E-22	0.337611657	0.614	0.468	8.47E-18	10 EPB41L1
1.02E-41	0.33698281	0.331	0.161	3.28E-37	10 RAB8B
1.40E-21	0.336912553	0.504	0.359	4.49E-17	10 IFT43
6.50E-19	0.336589126	0.694	0.566	2.09E-14	10 CFLAR
9.08E-18	0.335561999	0.633	0.53	2.92E-13	10 PTBP2
9.38E-28	0.335051022	0.557	0.382	3.01E-23	10 SMG1P4
4.79E-23	0.333398278	0.399	0.263	1.54E-18	10 LEPROT
1.61E-27	0.332760539	0.519	0.35	5.18E-23	10 ATP6V0A1
6.43E-26	0.332703845	0.407	0.25	2.07E-21	10 LIPA
8.02E-22	0.332563477	0.672	0.551	2.58E-17	10 ARHGAP29
2.22E-20	0.33241845	0.655	0.522	7.12E-16	10 FANCC
3.88E-52	0.331294084	0.338	0.152	1.25E-47	10 FP700111.1
8.53E-33	0.330720175	0.327	0.167	2.74E-28	10 SLC25A48
2.27E-25	0.329157129	0.403	0.257	7.30E-21	10 ATP6V1C1
6.76E-42	0.328689284	0.336	0.163	2.17E-37	10 SRP54-AS1
2.21E-22	0.328640449	0.462	0.309	7.09E-18	10 MOK
1.71E-14	0.327864774	0.446	0.334	5.48E-10	10 MTMR12
2.14E-32	0.327409566	0.473	0.292	6.88E-28	10 LMTK2
4.19E-26	0.327202753	0.298	0.166	1.35E-21	10 NREP
1.49E-32	0.327090434	0.429	0.249	4.80E-28	10 SLC22A5
4.72E-26	0.325573607	0.379	0.229	1.51E-21	10 TBC1D16
3.12E-27	0.325392859	0.501	0.329	1.00E-22	10 SPRED1
2.10E-42	0.325259172	0.272	0.119	6.76E-38	10 EPSTI1
6.55E-30	0.324948295	0.491	0.316	2.10E-25	10 PARP14
3.53E-33	0.324629489	0.411	0.235	1.13E-28	10 EVA1C
7.57E-25	0.324214161	0.384	0.238	2.43E-20	10 CRLS1
4.84E-28	0.323908684	0.379	0.222	1.55E-23	10 AC019257.8
2.14E-16	0.321540468	0.934	0.892	6.87E-12	10 RORA

6.03E-27	0.321235304	0.324	0.182	1.94E-22	10 NEDD9
2.21E-19	0.321083607	0.51	0.373	7.09E-15	10 HMGN3
4.18E-31	0.320156963	0.475	0.303	1.34E-26	10 NBPF9
2.06E-20	0.319021128	0.877	0.834	6.61E-16	10 MBD5
7.81E-16	0.318416172	0.527	0.411	2.51E-11	10 PPFIA1
2.47E-20	0.318162906	0.358	0.23	7.93E-16	10 ZNF721
1.53E-25	0.317735432	0.681	0.518	4.91E-21	10 ANKRD36
1.35E-24	0.317009762	0.372	0.224	4.33E-20	10 AGPAT5
2.34E-25	0.316871531	0.709	0.566	7.52E-21	10 TAF1D
2.75E-18	0.316298474	0.693	0.614	8.83E-14	10 PUM1
4.83E-30	0.315107991	0.788	0.692	1.55E-25	10 AKAP13
1.80E-19	0.314360299	0.414	0.274	5.77E-15	10 GPR39
1.15E-42	0.314141214	0.297	0.135	3.69E-38	10 ACADL
9.97E-28	0.313922783	0.36	0.21	3.20E-23	10 ENO1
6.77E-20	0.313515344	0.509	0.373	2.17E-15	10 DERA
1.87E-27	0.313500484	0.827	0.769	6.01E-23	10 NPIPB5
2.20E-20	0.313130014	0.574	0.424	7.07E-16	10 MGMT
1.02E-59	0.312800035	0.265	0.095	3.27E-55	10 ABCC6P1
6.49E-25	0.312669665	0.402	0.247	2.08E-20	10 PACS2
1.99E-18	0.312651726	0.457	0.318	6.38E-14	10 AC104123.1
1.02E-11	0.311372522	0.3	0.206	3.28E-07	10 MAOA
6.50E-17	0.311367848	0.587	0.457	2.09E-12	10 LINC00894
1.82E-21	0.311348342	0.408	0.269	5.84E-17	10 MTMR2
1.26E-32	0.311196474	0.447	0.268	4.04E-28	10 UTP4
1.73E-33	0.30959699	0.379	0.212	5.57E-29	10 LRRC6
2.04E-26	0.309168683	0.544	0.366	6.54E-22	10 DLEU2
4.90E-62	0.30912368	0.267	0.095	1.58E-57	10 CNTNAP3C
8.72E-38	0.308498523	0.444	0.243	2.80E-33	10 FAM20C
1.73E-16	0.30806513	0.556	0.434	5.55E-12	10 SETD3
3.89E-13	0.307300105	0.342	0.239	1.25E-08	10 AC018521.1
2.53E-06	0.306896102	0.36	0.29	0.081322615	10 AHNAK
1.48E-19	0.306536791	0.582	0.44	4.76E-15	10 RFX7
2.24E-18	0.305462351	0.494	0.364	7.19E-14	10 KIAA1671
9.36E-24	0.304596163	0.498	0.339	3.01E-19	10 CCDC57
2.82E-24	0.304183838	0.399	0.251	9.05E-20	10 SMC6
1.22E-12	0.30384919	0.617	0.526	3.92E-08	10 AF117829.1
4.11E-05	0.303166495	0.446	0.411	1	10 TTTY14
2.74E-13	0.30308204	0.535	0.423	8.79E-09	10 ANO10
1.07E-37	0.302925353	0.351	0.178	3.44E-33	10 MAOB
1.04E-19	0.302241162	0.495	0.351	3.34E-15	10 EFCAB6
6.58E-28	0.301927624	0.314	0.174	2.11E-23	10 OTULIN
5.89E-21	0.30142201	0.409	0.263	1.89E-16	10 MYO15B
3.03E-15	0.30062348	0.634	0.553	9.74E-11	10 SLMAP
4.90E-28	0.300489479	0.332	0.186	1.57E-23	10 DNAAF4-CCPG1
3.87E-20	0.299686743	0.855	0.799	1.24E-15	10 SOX6
4.52E-25	0.299531375	0.269	0.139	1.45E-20	10 AC087762.1
3.63E-22	0.299456793	0.257	0.145	1.17E-17	10 ZNF189
3.20E-20	0.297747957	0.387	0.254	1.03E-15	10 NOVA1
8.10E-26	0.297580939	0.511	0.344	2.60E-21	10 ABHD15-AS1
1.49E-12	0.297336139	0.723	0.676	4.79E-08	10 DLG1
1.80E-17	0.297286189	0.432	0.305	5.77E-13	10 DENND5A

5.48E-30	0.296827754	0.362	0.206	1.76E-25	10 EVC2
6.72E-33	0.29654159	0.3	0.15	2.16E-28	10 EAF2
1.94E-30	0.296097195	0.254	0.123	6.24E-26	10 KCP
7.14E-35	0.295859567	0.261	0.123	2.29E-30	10 TNFRSF1A
1.01E-30	0.295628932	0.334	0.18	3.26E-26	10 ERBB3
2.10E-12	0.295307994	0.639	0.524	6.76E-08	10 GOLGA8B
6.24E-20	0.294736764	0.691	0.569	2.00E-15	10 AC008695.1
2.74E-30	0.294657486	0.414	0.248	8.81E-26	10 PARP8
7.47E-19	0.293943459	0.838	0.769	2.40E-14	10 IGF1R
1.08E-15	0.293935756	0.276	0.174	3.45E-11	10 LTBP3
1.62E-19	0.292293529	0.417	0.28	5.21E-15	10 TRMT11
3.85E-22	0.291630796	0.448	0.302	1.24E-17	10 CFAP69
1.96E-21	0.291172736	0.397	0.262	6.29E-17	10 UBE2Q2P2
1.43E-17	0.29068248	0.621	0.503	4.60E-13	10 ABCD3
6.68E-18	0.288796826	0.621	0.504	2.15E-13	10 PHACTR4
4.61E-19	0.28812476	0.619	0.491	1.48E-14	10 GNB1
1.27E-38	0.287826054	0.268	0.121	4.07E-34	10 PHLDB1
4.14E-15	0.287212427	0.505	0.374	1.33E-10	10 PLXNB1
1.36E-62	0.28717402	0.404	0.166	4.37E-58	10 DPEP1
1.30E-17	0.286908337	0.658	0.556	4.17E-13	10 RBM33
2.11E-19	0.286153549	0.542	0.4	6.76E-15	10 NBPF12
1.19E-25	0.285354696	0.381	0.229	3.83E-21	10 MREG
1.79E-21	0.284933538	0.431	0.283	5.76E-17	10 ACSS2
1.61E-27	0.284433576	0.353	0.203	5.18E-23	10 PECR
1.42E-15	0.28334582	0.6	0.476	4.57E-11	10 GOLM2
2.31E-25	0.282280316	0.401	0.248	7.42E-21	10 NBPF15
3.33E-23	0.281964652	0.349	0.208	1.07E-18	10 SNTB2
5.56E-18	0.280695022	0.351	0.232	1.79E-13	10 DNAJC15
7.42E-31	0.280450169	0.635	0.417	2.38E-26	10 STK32B
6.36E-09	0.28016122	0.338	0.256	0.000204108	10 ADGRG1
1.98E-18	0.279820629	0.534	0.398	6.36E-14	10 STX7
7.59E-21	0.279677399	0.441	0.295	2.44E-16	10 CEMIP2
2.28E-17	0.279512832	0.448	0.315	7.32E-13	10 GTDC1
2.96E-14	0.279388388	0.66	0.553	9.50E-10	10 AIG1
1.16E-16	0.278731035	0.734	0.657	3.72E-12	10 APP
5.91E-14	0.278687875	0.492	0.38	1.90E-09	10 DDX10
2.07E-21	0.27863001	0.305	0.18	6.63E-17	10 IL1R1
4.29E-13	0.276591295	0.757	0.674	1.38E-08	10 SHROOM3
2.10E-26	0.276477681	0.282	0.154	6.74E-22	10 LAMP2
1.34E-06	0.276321419	0.483	0.41	0.043098861	10 ERRFI1
5.46E-14	0.276168018	0.471	0.346	1.75E-09	10 CRPPA
1.31E-17	0.274927545	0.543	0.417	4.22E-13	10 GTF2IP4
2.83E-17	0.274036839	0.425	0.297	9.09E-13	10 FOXK1
1.18E-31	0.273596309	0.293	0.15	3.79E-27	10 KATNAL1
4.02E-13	0.273448096	0.454	0.339	1.29E-08	10 MTAP
1.75E-20	0.27338589	0.578	0.428	5.61E-16	10 CPNE8
1.03E-13	0.273120505	0.504	0.395	3.32E-09	10 PTAR1
2.13E-45	0.273117999	0.296	0.127	6.83E-41	10 BX005040.4
2.49E-14	0.272782729	0.62	0.504	7.99E-10	10 TPT1-AS1
1.63E-18	0.272536993	0.554	0.405	5.24E-14	10 DMXL2
3.19E-16	0.272350974	0.565	0.426	1.02E-11	10 SPG7

1.73E-35	0.272123018	0.474	0.268	5.56E-31	10 BHMT2
5.46E-15	0.272115409	0.667	0.571	1.75E-10	10 SSH2
4.30E-19	0.271971885	0.871	0.829	1.38E-14	10 MACF1
2.08E-22	0.271836713	0.555	0.413	6.68E-18	10 GNG12
0.00718054	0.271650878	0.24	0.281	1	10 ZNF385D
3.97E-17	0.27149217	0.275	0.17	1.28E-12	10 RFX2
3.09E-22	0.271309417	0.703	0.537	9.93E-18	10 PAX2
2.16E-16	0.270777549	0.574	0.431	6.95E-12	10 AL078459.1
1.24E-15	0.270381676	0.415	0.293	3.98E-11	10 DLGAP4
4.64E-28	0.269105127	0.577	0.391	1.49E-23	10 PITPNC1
3.01E-10	0.268969425	0.673	0.581	9.66E-06	10 SRSF11
2.60E-53	0.267738365	0.256	0.096	8.36E-49	10 RRN3P1
3.32E-37	0.267171771	0.271	0.125	1.07E-32	10 C1RL
1.58E-15	0.267052398	0.493	0.372	5.08E-11	10 CU633904.1
4.08E-18	0.266978078	0.569	0.42	1.31E-13	10 IL6ST
7.29E-21	0.266776916	0.375	0.238	2.34E-16	10 AC092902.4
3.57E-12	0.266636991	0.688	0.591	1.15E-07	10 LYPLAL1
8.41E-21	0.266455382	0.814	0.769	2.70E-16	10 NPIPB4
2.17E-13	0.265846122	0.631	0.503	6.96E-09	10 MIR3936HG
5.31E-21	0.2654059	0.354	0.218	1.71E-16	10 SPAG17
6.06E-23	0.264745849	0.349	0.21	1.95E-18	10 C12orf40
1.74E-21	0.264562556	0.388	0.242	5.59E-17	10 AC012531.3
2.28E-53	0.264441941	0.302	0.123	7.31E-49	10 MEIS1
9.30E-12	0.264123596	0.544	0.445	2.99E-07	10 UBAP1
6.86E-37	0.263683624	0.264	0.121	2.20E-32	10 SLC25A43
1.22E-36	0.26340344	0.32	0.157	3.93E-32	10 TENM2
1.27E-50	0.263400918	0.445	0.219	4.08E-46	10 SLC4A7
2.05E-12	0.26322094	0.274	0.182	6.58E-08	10 AP002518.2
7.32E-16	0.262897585	0.434	0.309	2.35E-11	10 TCF20
3.84E-19	0.262184828	0.329	0.203	1.23E-14	10 PTTG1IP
7.27E-17	0.262047548	0.305	0.189	2.33E-12	10 PRELID2
3.92E-17	0.261794875	0.309	0.198	1.26E-12	10 PGAM1P5
7.30E-12	0.261676614	0.654	0.561	2.35E-07	10 SNX14
8.50E-17	0.261497097	0.82	0.805	2.73E-12	10 EXOC4
8.14E-28	0.261413871	0.336	0.188	2.61E-23	10 AL160269.1
1.53E-27	0.260631365	0.526	0.351	4.93E-23	10 SRGAP1
3.87E-11	0.260137584	0.299	0.21	1.24E-06	10 TLE1
6.26E-24	0.259895552	0.344	0.203	2.01E-19	10 MEI4
3.04E-19	0.259274003	0.448	0.313	9.78E-15	10 KHDRBS1
6.00E-17	0.259224246	0.457	0.322	1.93E-12	10 SPEF2
1.48E-64	0.258933566	0.335	0.126	4.76E-60	10 SLC17A4
2.39E-47	0.25845068	0.274	0.11	7.68E-43	10 AC004485.1
2.34E-12	0.257491894	0.553	0.437	7.50E-08	10 AF127577.4
2.00E-10	0.257062552	0.573	0.489	6.43E-06	10 CSNK1G1
2.01E-12	0.256716712	0.459	0.348	6.46E-08	10 GABPB1-AS1
3.02E-35	0.256014631	0.26	0.12	9.69E-31	10 DRAM1
4.43E-16	0.255354836	0.374	0.254	1.42E-11	10 MTHFD1L
7.51E-18	0.255342944	0.43	0.298	2.41E-13	10 PAK2
4.40E-21	0.255316295	0.32	0.192	1.41E-16	10 RPS6KA5
1.44E-22	0.254643412	0.362	0.219	4.62E-18	10 TLE4
1.62E-19	0.254320713	0.433	0.292	5.19E-15	10 CCDC6

1.06E-09	0.254131503	0.413	0.313	3.41E-05	10 SLC25A37
1.08E-12	0.253730617	0.448	0.338	3.48E-08	10 SPART
3.20E-12	0.253253878	0.664	0.575	1.03E-07	10 AFF4
1.88E-17	0.253132817	0.377	0.248	6.04E-13	10 AC006994.1
6.15E-24	0.25258677	0.298	0.168	1.98E-19	10 SNX7
2.80E-15	0.251749286	0.371	0.255	9.00E-11	10 C11orf54
2.11E-14	0.25135182	0.522	0.398	6.76E-10	10 LARP1B
2.60E-20	0.25068817	0.254	0.142	8.34E-16	10 SHISA6
5.43E-08	0.250610888	0.588	0.518	0.001745118	10 ADAM10
5.80E-08	0.250559296	0.656	0.58	0.001862808	10 GCC2
1.69E-19	0.250367597	0.291	0.175	5.44E-15	10 PTPN20
5.17E-20	0.250011089	0.321	0.195	1.66E-15	10 LRIG3
0	3.022480498	0.874	0.169	0	11 PWRN1
0	2.884426459	0.982	0.607	0	11 PDE10A
0	2.494331448	0.983	0.323	0	11 BMPR1B
0	2.452797979	0.933	0.322	0	11 PAPP A
0	2.396229128	0.94	0.326	0	11 ST6GAL1
0	2.295021521	0.86	0.111	0	11 SCNN1G
0	2.284886321	0.974	0.37	0	11 TOX
0	2.166464249	0.991	0.583	0	11 PRKAG2
0	2.155840498	0.562	0.091	0	11 FGF12
0	2.133823071	0.823	0.141	0	11 EYA4
0	2.100407958	0.897	0.251	0	11 KSR2
0	1.978057467	0.807	0.139	0	11 LINC01482
1.12E-306	1.974414005	0.515	0.111	3.59E-302	11 H2AC6
4.07E-166	1.957948601	0.517	0.181	1.31E-161	11 ZNF331
0	1.940079908	0.96	0.525	0	11 ABTB2
0	1.915888756	0.993	0.533	0	11 GRIP1
0	1.896723112	0.818	0.094	0	11 AQP2
6.26E-223	1.879940122	0.716	0.293	2.01E-218	11 ATP1B3
0	1.870689297	0.755	0.072	0	11 ROR2
0	1.830527348	0.748	0.054	0	11 FXYD4
0	1.807447148	0.998	0.682	0	11 CADPS2
0	1.794618462	0.75	0.168	0	11 BTG2
0	1.793682228	0.936	0.418	0	11 PLCL2
0	1.788829787	0.863	0.172	0	11 GATA3
0	1.788177766	0.998	0.597	0	11 TRPM3
0	1.761906914	0.863	0.327	0	11 SLC38A1
0	1.735681827	0.948	0.427	0	11 C11orf80
0	1.726774034	0.804	0.299	0	11 SLC45A4
0	1.6909409	0.934	0.411	0	11 TMTC2
0	1.664935367	0.9	0.298	0	11 MACC1
0	1.642069784	0.584	0.084	0	11 EGFEM1P
0	1.619851285	0.677	0.162	0	11 ZC3HAV1
0	1.605191293	0.996	0.786	0	11 RBPMS
0	1.596159785	0.849	0.261	0	11 PLEKHA2
0	1.592790345	1	0.772	0	11 MECOM
9.07E-245	1.587803165	0.314	0.049	2.91E-240	11 H2AC18
1.08E-69	1.584345116	0.366	0.157	3.48E-65	11 SGCD
0	1.537425932	0.964	0.396	0	11 PIK3C2G
9.47E-244	1.49619062	0.731	0.261	3.04E-239	11 KCTD8

0	1.491276294	1	0.973	0	11 PDE4D
3.00E-282	1.482335945	0.96	0.547	9.62E-278	11 MYO1E
2.94E-189	1.479093436	0.329	0.066	9.44E-185	11 PSG9
0	1.476982536	0.559	0.051	0	11 AQP3
0	1.465992266	0.305	0.027	0	11 AC087379.2
0	1.461579949	0.858	0.336	0	11 SGPP1
0	1.448204345	0.796	0.191	0	11 TCF7L1
1.45E-240	1.427752267	0.907	0.471	4.66E-236	11 NDRG1
1.94E-297	1.41742527	0.975	0.7	6.23E-293	11 ERC1
1.55E-258	1.414554374	0.896	0.394	4.97E-254	11 SCIN
4.05E-273	1.403396536	0.842	0.342	1.30E-268	11 STIM2
4.11E-265	1.401800479	0.991	0.777	1.32E-260	11 GLIS3
8.21E-265	1.387176762	0.623	0.182	2.64E-260	11 ARG2
3.12E-240	1.362446087	0.914	0.529	1.00E-235	11 SPAG16
1.11E-142	1.361005536	0.654	0.295	3.55E-138	11 IL1RAPL2
1.05E-278	1.356498924	0.905	0.359	3.37E-274	11 SOX5
2.27E-300	1.346074912	0.998	0.861	7.28E-296	11 ANK3
0	1.32166277	0.609	0.148	0	11 PGAP1
2.88E-294	1.32084003	0.612	0.154	9.25E-290	11 COL4A6
7.07E-230	1.318807656	0.983	0.698	2.27E-225	11 FRAS1
3.92E-284	1.313366935	0.933	0.421	1.26E-279	11 THSD4
0	1.304108029	0.71	0.2	0	11 EML6
0	1.292877328	0.837	0.255	0	11 FYB2
5.99E-222	1.281407111	0.547	0.152	1.92E-217	11 GDF15
2.14E-257	1.272850789	0.971	0.614	6.87E-253	11 LINC02532
0	1.272508575	0.639	0.087	0	11 SCNN1B
0	1.261716004	0.596	0.103	0	11 SLC9A4
2.29E-200	1.261368023	0.934	0.614	7.36E-196	11 GAREM1
0	1.259228562	0.563	0.122	0	11 ST3GAL4
6.90E-236	1.257747254	0.793	0.33	2.22E-231	11 MAP3K21
7.82E-261	1.249004717	0.543	0.129	2.51E-256	11 PCDH7
5.49E-238	1.244979867	0.949	0.52	1.76E-233	11 MYO10
1.24E-260	1.241734648	0.979	0.623	3.98E-256	11 AKT3
1.81E-229	1.241678821	0.839	0.387	5.82E-225	11 MYO5A
1.77E-256	1.238677013	0.901	0.401	5.67E-252	11 COL4A5
0	1.235357823	0.584	0.137	0	11 RDH10
2.49E-193	1.235334567	0.933	0.561	8.00E-189	11 RALYL
3.10E-247	1.228004643	0.881	0.431	9.94E-243	11 HDAC4
5.37E-296	1.225859044	0.783	0.279	1.72E-291	11 SLC11A2
4.89E-289	1.221262017	0.875	0.359	1.57E-284	11 CRYBG1
0	1.208294688	0.703	0.179	0	11 PFKFB3
2.10E-251	1.196197208	0.981	0.7	6.76E-247	11 PRKCA
0	1.184246185	0.716	0.167	0	11 HUNK
0	1.183956133	0.469	0.04	0	11 PKIA-AS1
6.44E-218	1.181770223	0.483	0.121	2.07E-213	11 SH3BP5
3.61E-168	1.17910847	0.967	0.671	1.16E-163	11 THSD7A
7.44E-198	1.172439083	0.944	0.577	2.39E-193	11 PDE7B
3.52E-304	1.165014142	0.633	0.16	1.13E-299	11 SLC7A1
1.49E-242	1.163702637	0.866	0.361	4.78E-238	11 FRY
2.58E-259	1.156582089	0.926	0.391	8.27E-255	11 MPPED2
3.33E-200	1.154274	0.97	0.763	1.07E-195	11 AFF1

1.29E-192	1.154023763	0.839	0.42	4.14E-188	11 SRGAP3
2.49E-306	1.151848114	0.686	0.199	8.01E-302	11 STAM
2.08E-100	1.140720113	0.39	0.146	6.70E-96	11 NUAQ2
1.35E-149	1.138453626	0.882	0.56	4.33E-145	11 WWTR1
8.14E-272	1.136402966	0.785	0.259	2.62E-267	11 NRCAM
1.60E-219	1.13634792	0.992	0.706	5.13E-215	11 ADAMTS9-AS2
1.95E-146	1.135220413	0.771	0.399	6.27E-142	11 CDK6
1.14E-194	1.131388419	0.632	0.223	3.67E-190	11 VEPH1
2.98E-195	1.12867303	0.943	0.558	9.56E-191	11 DCDC2
1.05E-213	1.127197145	0.896	0.486	3.38E-209	11 EYA3
7.83E-207	1.127186496	0.991	0.673	2.52E-202	11 KAZN
2.20E-215	1.11596896	0.699	0.244	7.05E-211	11 MSR1
0	1.113695319	0.496	0.079	0	11 PNP
9.43E-207	1.110304613	0.944	0.569	3.03E-202	11 LAMB1
5.91E-191	1.10295995	0.789	0.336	1.90E-186	11 CSGALNACT1
0	1.087774678	0.708	0.186	0	11 SLC25A29
3.52E-284	1.07996298	0.271	0.031	1.13E-279	11 ID3
2.60E-294	1.077997372	0.455	0.083	8.35E-290	11 HES1
4.68E-149	1.073781848	0.305	0.07	1.50E-144	11 NR4A2
5.09E-228	1.070957034	0.907	0.46	1.63E-223	11 MOB1B
0	1.069995728	0.528	0.11	0	11 SCCPDH
2.58E-124	1.065791418	0.813	0.48	8.30E-120	11 SMARCA2
4.79E-166	1.064419345	0.89	0.562	1.54E-161	11 NLK
1.57E-216	1.052226415	0.955	0.633	5.04E-212	11 FRG1HP
2.70E-43	1.051299057	0.731	0.513	8.68E-39	11 RANBP2
1.65E-192	1.043744246	0.973	0.692	5.30E-188	11 WSB1
8.21E-202	1.042748726	0.813	0.359	2.64E-197	11 VAV2
5.23E-147	1.041679648	0.933	0.663	1.68E-142	11 AAK1
1.17E-151	1.038290269	0.894	0.541	3.76E-147	11 STARD13
2.61E-175	1.038207925	0.738	0.335	8.40E-171	11 SLC44A1
3.89E-189	1.037639865	0.978	0.68	1.25E-184	11 AGBL4
1.07E-262	1.03721129	0.531	0.131	3.42E-258	11 TC2N
3.60E-251	1.033279469	0.559	0.146	1.16E-246	11 MCTP1
1.81E-214	1.03105939	0.741	0.3	5.82E-210	11 DCUN1D1
3.63E-213	1.029266752	0.992	0.768	1.17E-208	11 ARL15
1.53E-125	1.024215347	0.623	0.276	4.92E-121	11 SEMA6A
3.25E-199	1.023596831	0.925	0.436	1.04E-194	11 TEX41
6.16E-212	1.022910297	0.69	0.254	1.98E-207	11 RAPH1
3.65E-169	1.022631265	0.963	0.643	1.17E-164	11 RAD51B
7.20E-217	1.018520587	0.994	0.881	2.31E-212	11 IMMP2L
0	1.018012778	0.543	0.106	0	11 LYPD6B
0	1.017842117	0.586	0.132	0	11 SORCS2
2.71E-198	1.011647056	0.905	0.493	8.70E-194	11 TANC2
1.75E-198	1.010938977	0.877	0.421	5.63E-194	11 HSD11B2
2.03E-213	1.010893321	0.903	0.467	6.53E-209	11 ARHGEF35-AS1
2.97E-193	1.004782804	0.552	0.165	9.54E-189	11 FOS
0	1.003837056	0.732	0.184	0	11 APCDD1L-DT
2.74E-120	1.002100138	0.857	0.499	8.79E-116	11 IVNS1ABP
1.12E-166	0.999630869	0.933	0.624	3.59E-162	11 AL138752.2
2.11E-301	0.99716554	0.661	0.175	6.77E-297	11 IQUB
9.35E-173	0.995420575	0.6	0.214	3.00E-168	11 SOBP

5.14E-108	0.993071307	0.511	0.212	1.65E-103	11 NR4A1
1.46E-152	0.989601227	0.96	0.732	4.68E-148	11 NFAT5
0	0.986781435	0.584	0.117	0	11 SPRY4-AS1
2.93E-203	0.985453374	0.761	0.303	9.40E-199	11 DUSP1
1.01E-176	0.985440427	0.832	0.4	3.24E-172	11 TMEM51
1.23E-282	0.982500726	0.629	0.163	3.94E-278	11 AC005062.1
1.98E-154	0.979562746	0.68	0.299	6.36E-150	11 KIZ
0	0.979448934	0.551	0.089	0	11 AL512662.1
0	0.978943608	0.518	0.092	0	11 HMGCS2
9.82E-191	0.962973315	0.76	0.303	3.15E-186	11 FAM110B
2.63E-164	0.960438849	0.593	0.21	8.44E-160	11 MAN1C1
0	0.959558574	0.455	0.076	0	11 MIR31HG
3.77E-276	0.958631109	0.598	0.152	1.21E-271	11 NIPAL1
1.42E-167	0.957725139	0.449	0.129	4.56E-163	11 AC093865.1
5.53E-100	0.953678352	0.788	0.475	1.77E-95	11 ESYT2
0	0.951986368	0.522	0.079	0	11 LINC00609
7.00E-162	0.948088826	0.776	0.349	2.25E-157	11 PPARG
0	0.944123849	0.486	0.073	0	11 AC013470.2
3.55E-157	0.935679222	0.948	0.654	1.14E-152	11 PTPN13
6.28E-259	0.935086975	0.674	0.2	2.02E-254	11 SYK
4.67E-134	0.926396312	0.623	0.253	1.50E-129	11 KITLG
2.00E-63	0.915674633	0.375	0.161	6.44E-59	11 FAM155A
2.27E-225	0.915427542	0.749	0.256	7.30E-221	11 ZNF208
3.30E-195	0.910900175	0.611	0.209	1.06E-190	11 MAL2
1.93E-130	0.910085334	0.643	0.288	6.20E-126	11 FOSL2
1.23E-151	0.904495534	0.764	0.389	3.95E-147	11 MCCC1
8.66E-159	0.902211322	0.9	0.561	2.78E-154	11 SSH2
3.17E-113	0.901791568	0.761	0.437	1.02E-108	11 MTMR10
1.11E-141	0.901138029	0.882	0.509	3.57E-137	11 PTBP3
1.79E-157	0.897702728	0.798	0.415	5.74E-153	11 DTNB
2.29E-207	0.897357851	0.44	0.103	7.34E-203	11 KCNK13
0	0.895515133	0.379	0.03	0	11 PKIA
1.75E-140	0.891957336	0.996	0.818	5.61E-136	11 COBLL1
4.62E-150	0.891053533	0.848	0.451	1.49E-145	11 MCU
1.55E-149	0.890820353	0.961	0.652	4.97E-145	11 LIMCH1
1.07E-277	0.889755472	0.56	0.132	3.43E-273	11 FAM81A
4.14E-300	0.888974032	0.611	0.144	1.33E-295	11 TRERF1
5.85E-145	0.886336484	0.805	0.451	1.88E-140	11 MAP4K5
2.90E-109	0.883582734	0.395	0.135	9.31E-105	11 BRINP3
2.51E-288	0.883307827	0.524	0.112	8.07E-284	11 HS6ST1
4.91E-141	0.880774691	0.909	0.543	1.58E-136	11 STK33
4.83E-143	0.876941939	0.753	0.363	1.55E-138	11 CDKL1
3.73E-228	0.876564962	0.538	0.143	1.20E-223	11 LPCAT2
2.79E-207	0.874045872	0.657	0.212	8.97E-203	11 TSPAN5
3.66E-172	0.871933039	0.906	0.475	1.17E-167	11 HOXB3
1.87E-142	0.871914375	0.935	0.603	6.00E-138	11 LRRFIP1
0	0.871902021	0.487	0.078	0	11 RASAL1
1.82E-286	0.871460395	0.367	0.055	5.86E-282	11 ID1
5.02E-271	0.869748359	0.637	0.165	1.61E-266	11 ADAMTSL3
0	0.868114192	0.525	0.096	0	11 DCPS
3.13E-163	0.867652903	0.708	0.292	1.00E-158	11 SUSD1

4.30E-104	0.867006166	0.561	0.242	1.38E-99	11 KIF26B
0	0.865665103	0.474	0.07	0	11 CPAMD8
5.67E-179	0.864208556	0.8	0.379	1.82E-174	11 AC074386.1
1.63E-106	0.86262892	0.517	0.22	5.24E-102	11 LNC-LBCS
0	0.862473817	0.446	0.024	0	11 ELF5
1.11E-126	0.861692997	0.807	0.422	3.57E-122	11 KCNJ3
9.66E-146	0.854735145	0.735	0.336	3.10E-141	11 AC092944.1
1.30E-101	0.852425279	0.544	0.245	4.16E-97	11 B4GALT1
1.82E-172	0.850648951	0.838	0.427	5.83E-168	11 MYH10
6.55E-201	0.847857671	0.57	0.165	2.10E-196	11 AC011586.1
9.54E-174	0.846510609	0.701	0.287	3.06E-169	11 PHTF2
4.74E-141	0.841881446	0.922	0.613	1.52E-136	11 PPP1R9A
2.90E-45	0.839314328	0.322	0.161	9.32E-41	11 H3-3B
0	0.838448323	0.389	0.038	0	11 AC093583.1
3.83E-144	0.837977983	0.805	0.405	1.23E-139	11 KCNQ1
0	0.837976435	0.521	0.096	0	11 HELLS
2.25E-121	0.836832443	0.843	0.51	7.21E-117	11 RNF19A
1.89E-146	0.831492603	0.946	0.65	6.06E-142	11 SAMD12
2.15E-165	0.829249539	0.569	0.196	6.90E-161	11 MAP3K15
4.38E-146	0.828821725	0.925	0.577	1.41E-141	11 MIR99AHG
2.72E-196	0.827130369	0.663	0.229	8.73E-192	11 NPAS2
8.08E-304	0.816897561	0.457	0.082	2.59E-299	11 FAM20A
3.15E-223	0.816720218	0.688	0.226	1.01E-218	11 PIGQ
3.44E-198	0.813816939	0.42	0.098	1.10E-193	11 AC068051.1
1.04E-117	0.812251305	0.798	0.457	3.33E-113	11 GALNT11
5.84E-09	0.809535593	0.256	0.184	0.000187675	11 ROBO2
1.35E-95	0.809348121	0.918	0.656	4.35E-91	11 TRPS1
4.14E-270	0.808148329	0.502	0.109	1.33E-265	11 LYN
3.29E-139	0.806274998	0.815	0.423	1.06E-134	11 ALOX12P2
3.23E-176	0.806252755	0.457	0.13	1.04E-171	11 PTP4A2
5.65E-114	0.802406736	0.628	0.273	1.81E-109	11 MID1
7.31E-111	0.801021361	0.709	0.37	2.35E-106	11 AC004160.1
2.82E-140	0.798090935	0.685	0.291	9.04E-136	11 ABCB1
0	0.797696624	0.412	0.06	0	11 LINC02649
0	0.791306767	0.492	0.082	0	11 FGD3
3.81E-109	0.791141159	0.658	0.327	1.22E-104	11 CREM
3.61E-133	0.790235742	0.837	0.483	1.16E-128	11 DOCK7
9.78E-129	0.78746218	0.827	0.478	3.14E-124	11 ZFH3
7.61E-122	0.785037301	0.863	0.527	2.45E-117	11 CYRIB
9.36E-83	0.782042203	0.3	0.101	3.01E-78	11 ID2
1.58E-175	0.781648434	0.701	0.27	5.08E-171	11 RALBP1
3.48E-132	0.778017809	0.96	0.654	1.12E-127	11 PAX8-AS1
9.64E-185	0.774555813	0.613	0.207	3.10E-180	11 SPAG17
3.31E-148	0.774053456	0.824	0.409	1.06E-143	11 BICD1
1.20E-161	0.771334512	0.807	0.353	3.87E-157	11 MYO1B
1.88E-157	0.770307092	0.337	0.079	6.04E-153	11 PRPS2
1.14E-143	0.769641093	0.981	0.796	3.66E-139	11 MED13L
4.86E-117	0.763204766	0.891	0.539	1.56E-112	11 CYFIP2
5.90E-102	0.759877993	0.929	0.64	1.89E-97	11 NFIB
1.95E-120	0.759342764	0.64	0.283	6.25E-116	11 SLC9C1
2.99E-128	0.757771294	0.909	0.567	9.60E-124	11 ASAP2

1.28E-253	0.755658513	0.36	0.06	4.12E-249	11 GATA2
3.44E-208	0.755632656	0.551	0.153	1.11E-203	11 TPM4
6.65E-107	0.750818666	0.302	0.086	2.14E-102	11 AC018742.1
2.58E-151	0.749695603	0.579	0.216	8.30E-147	11 SLC23A2
9.88E-110	0.744559226	0.735	0.399	3.17E-105	11 GPCPD1
2.39E-274	0.740482434	0.446	0.082	7.69E-270	11 XYLT1
5.27E-128	0.738621006	0.983	0.808	1.69E-123	11 MAPK10
1.69E-145	0.735305163	0.68	0.278	5.41E-141	11 CDH1
1.51E-123	0.734454382	0.331	0.088	4.85E-119	11 KRT19
2.49E-93	0.733263937	0.37	0.13	7.98E-89	11 ATF3
6.55E-149	0.730632864	0.605	0.235	2.10E-144	11 AIF1L
1.07E-189	0.728446898	0.531	0.151	3.42E-185	11 AC011586.2
6.07E-232	0.721616029	0.48	0.11	1.95E-227	11 AFAP1L2
1.09E-127	0.718598524	0.341	0.093	3.48E-123	11 PAG1
1.30E-137	0.718408997	0.68	0.304	4.16E-133	11 IQCK
9.02E-157	0.717519728	0.408	0.111	2.90E-152	11 SLC9A2
5.09E-297	0.708510019	0.456	0.082	1.64E-292	11 UGT3A1
4.73E-59	0.708379661	0.473	0.237	1.52E-54	11 BHLHE40
1.11E-105	0.708337306	0.767	0.428	3.57E-101	11 SEPTIN11
2.50E-48	0.707625239	0.421	0.221	8.01E-44	11 BANP
2.15E-97	0.707026826	0.892	0.609	6.92E-93	11 AHI1
9.01E-145	0.706916791	0.635	0.247	2.89E-140	11 AC022414.1
0	0.706852089	0.309	0.023	0	11 ADAM23
3.04E-143	0.706129635	0.741	0.326	9.75E-139	11 BLNK
3.00E-68	0.704646461	0.673	0.397	9.62E-64	11 DPH6-DT
2.06E-156	0.70242069	0.623	0.24	6.60E-152	11 PGM5
1.78E-89	0.701842818	0.602	0.306	5.72E-85	11 ZFP36L1
1.83E-169	0.700822124	0.375	0.092	5.87E-165	11 GPM6B
4.99E-128	0.69881201	0.848	0.46	1.60E-123	11 HOXD3
1.27E-95	0.696764838	0.872	0.559	4.09E-91	11 ZNF704
7.11E-115	0.696591466	0.883	0.543	2.28E-110	11 TPST1
7.10E-134	0.696554563	0.757	0.35	2.28E-129	11 GRHL2
0	0.692076432	0.388	0.041	0	11 SHCBP1
4.81E-112	0.690778136	0.596	0.266	1.55E-107	11 CD24
1.86E-71	0.68685984	0.513	0.252	5.99E-67	11 CHSY1
3.38E-63	0.682823318	0.346	0.143	1.09E-58	11 LINC01876
2.62E-81	0.680610019	0.766	0.467	8.40E-77	11 RAP1B
2.80E-95	0.679821851	0.707	0.374	8.98E-91	11 CARMIL1
2.60E-72	0.676541547	0.977	0.757	8.36E-68	11 AC019197.1
7.65E-113	0.67639781	0.385	0.123	2.46E-108	11 RASD1
6.64E-70	0.672817499	0.484	0.237	2.13E-65	11 TGFBR1
7.46E-112	0.670886108	0.779	0.415	2.39E-107	11 MGMT
1.13E-235	0.670836533	0.29	0.043	3.64E-231	11 ARL4D
1.17E-94	0.667334838	0.858	0.537	3.75E-90	11 DAPK1
4.09E-113	0.666864002	0.998	0.784	1.31E-108	11 CCSER1
0	0.664934579	0.328	0.039	0	11 LY75-CD302
0	0.664710677	0.33	0.035	0	11 DOC2B
4.05E-168	0.663749184	0.313	0.065	1.30E-163	11 LINC01503
2.31E-165	0.661918092	0.486	0.144	7.41E-161	11 AC004540.1
4.99E-87	0.65911466	0.744	0.432	1.60E-82	11 SEPTIN9
3.41E-91	0.65819113	0.885	0.575	1.10E-86	11 WWC1

1.06E-105	0.656377574	0.792	0.456	3.42E-101	11 CDC42BPB
1.15E-108	0.654964456	0.62	0.277	3.69E-104	11 ADAM22
0	0.654373086	0.271	0.026	0	11 AC073172.1
5.90E-91	0.653758992	0.829	0.506	1.89E-86	11 C4orf19
7.77E-120	0.653053115	0.806	0.4	2.50E-115	11 FAM171A1
1.30E-78	0.650461435	0.865	0.605	4.16E-74	11 FER
3.83E-147	0.649656109	0.56	0.191	1.23E-142	11 RERGL
2.76E-94	0.649344601	0.981	0.785	8.87E-90	11 NR3C2
1.18E-114	0.647841308	0.954	0.736	3.79E-110	11 WDFY3
7.88E-120	0.647788633	0.883	0.511	2.53E-115	11 PAX8
3.14E-155	0.645598245	0.531	0.179	1.01E-150	11 TGS1
2.60E-112	0.64225953	0.379	0.119	8.35E-108	11 LINC01508
1.15E-123	0.638127066	0.463	0.162	3.69E-119	11 AL136115.2
1.19E-98	0.633774272	0.644	0.301	3.83E-94	11 GPRIN3
7.73E-90	0.633748557	0.788	0.491	2.48E-85	11 NUP214
1.33E-95	0.632655073	0.854	0.544	4.29E-91	11 TRAK1
4.59E-232	0.630783152	0.487	0.114	1.47E-227	11 CDK18
1.66E-80	0.62934752	0.775	0.48	5.35E-76	11 MTUS1
1.09E-143	0.628091567	0.758	0.347	3.49E-139	11 HIP1R
2.56E-141	0.627916752	0.577	0.207	8.23E-137	11 RIMBP2
0	0.626541958	0.324	0.022	0	11 NPAP1
2.14E-135	0.626277082	0.645	0.275	6.89E-131	11 AC139769.1
8.00E-156	0.62571606	0.498	0.157	2.57E-151	11 ARHGAP44
4.20E-273	0.623320766	0.355	0.055	1.35E-268	11 HACD1
5.11E-307	0.622635606	0.262	0.026	1.64E-302	11 AC064875.1
2.20E-104	0.618266976	0.565	0.243	7.06E-100	11 DCDC1
2.07E-141	0.616719267	0.577	0.22	6.66E-137	11 NASP
1.85E-123	0.615457234	0.899	0.498	5.94E-119	11 SDK1
1.80E-76	0.614150633	0.906	0.646	5.77E-72	11 SH3RF1
8.76E-94	0.614102629	0.814	0.458	2.81E-89	11 SSBP2
8.96E-89	0.613278271	0.832	0.483	2.88E-84	11 NOS1AP
5.50E-105	0.613188733	0.794	0.434	1.77E-100	11 STXBP5
4.45E-102	0.613141434	0.592	0.27	1.43E-97	11 PLSCR1
4.29E-102	0.609819507	0.705	0.351	1.38E-97	11 SPATS2
8.90E-73	0.60744086	0.977	0.806	2.86E-68	11 PRKN
1.31E-122	0.606770071	0.362	0.105	4.19E-118	11 AFAP1
1.63E-81	0.604425897	0.744	0.453	5.24E-77	11 EFR3A
2.61E-125	0.601825112	0.794	0.378	8.37E-121	11 MYO3B
1.22E-90	0.599225414	0.979	0.779	3.90E-86	11 NAALADL2
3.81E-134	0.597225793	0.448	0.146	1.22E-129	11 NR2F2
8.57E-84	0.595210807	0.469	0.197	2.75E-79	11 MAPK4
5.98E-99	0.594858812	0.518	0.219	1.92E-94	11 RNF24
8.58E-113	0.59466343	0.837	0.427	2.76E-108	11 PRDM16
2.74E-117	0.592242456	0.453	0.158	8.81E-113	11 C3orf52
2.41E-92	0.592118364	0.744	0.425	7.74E-88	11 RAB6A
4.57E-88	0.591593177	0.535	0.245	1.47E-83	11 YWHAEP7
5.02E-133	0.590392025	0.315	0.078	1.61E-128	11 STXBP6
3.14E-60	0.589722781	0.321	0.127	1.01E-55	11 ELF3
4.86E-82	0.589413964	0.788	0.484	1.56E-77	11 ATF6
1.03E-95	0.588704045	0.901	0.507	3.31E-91	11 FREM1
1.62E-90	0.588107288	0.784	0.476	5.22E-86	11 AL591684.2

2.01E-79	0.58726541	0.911	0.623	6.45E-75	11 THRB
3.44E-96	0.586323631	0.969	0.784	1.11E-91	11 PTK2
1.76E-38	0.585454706	0.62	0.399	5.66E-34	11 VPS37B
1.27E-94	0.58442256	0.816	0.462	4.08E-90	11 SPIRE1
2.47E-156	0.582500693	0.435	0.122	7.92E-152	11 JUNB
3.92E-90	0.581366934	0.478	0.203	1.26E-85	11 SLC38A11
6.70E-187	0.579482278	0.379	0.085	2.15E-182	11 SMIM5
6.60E-158	0.577946658	0.494	0.153	2.12E-153	11 RASGRP1
3.51E-135	0.576317271	0.527	0.186	1.13E-130	11 GPR160
5.74E-100	0.572992356	0.797	0.442	1.84E-95	11 ARHGEF10L
5.66E-89	0.572963665	0.501	0.211	1.82E-84	11 GNAI1
1.69E-75	0.572411695	0.915	0.682	5.44E-71	11 MTR
8.85E-102	0.570900798	0.358	0.115	2.84E-97	11 AC044810.3
3.03E-90	0.570688799	0.652	0.337	9.74E-86	11 CRTC3
1.57E-65	0.570621401	0.757	0.481	5.03E-61	11 SLC20A2
8.05E-113	0.566148595	0.999	0.873	2.59E-108	11 PKHD1
2.81E-85	0.565026562	0.953	0.757	9.03E-81	11 BAZ2B
9.33E-164	0.564532991	0.53	0.165	3.00E-159	11 KCNC3
1.58E-102	0.56414781	0.338	0.104	5.07E-98	11 ADAMTS3
2.48E-64	0.561064641	0.635	0.369	7.95E-60	11 CLCN3
2.86E-74	0.559298035	0.589	0.318	9.18E-70	11 SNX2
0	0.558560044	0.292	0.017	0	11 PTCSC3
1.90E-76	0.55461053	0.943	0.707	6.11E-72	11 ADK
1.64E-79	0.554436048	0.8	0.502	5.27E-75	11 TMEM245
7.69E-99	0.554375708	0.596	0.277	2.47E-94	11 KLHL2
3.20E-123	0.554198978	0.438	0.142	1.03E-118	11 PLCZ1
7.14E-113	0.553702168	0.504	0.192	2.29E-108	11 AC139795.1
4.61E-66	0.553347959	0.719	0.437	1.48E-61	11 ATG10
6.04E-57	0.553319737	0.559	0.313	1.94E-52	11 FGFR2
1.01E-77	0.552132415	0.474	0.215	3.25E-73	11 LRRC1
1.63E-81	0.55170869	0.567	0.267	5.25E-77	11 GPR39
1.06E-58	0.550980363	0.501	0.256	3.40E-54	11 LINC01266
1.26E-111	0.547105906	0.496	0.187	4.05E-107	11 ICA1L
8.57E-44	0.545395061	0.633	0.405	2.75E-39	11 AL355499.2
1.30E-107	0.545005853	0.419	0.147	4.17E-103	11 IKZF2
5.19E-80	0.543529098	0.783	0.492	1.67E-75	11 ZDHHC21
5.43E-178	0.543297112	0.485	0.13	1.74E-173	11 PROM1
4.83E-85	0.543269048	0.427	0.173	1.55E-80	11 KLHL8
4.65E-71	0.542484776	0.518	0.259	1.49E-66	11 ADAM9
1.68E-58	0.5421267	0.67	0.385	5.38E-54	11 ADAMTS16
2.85E-85	0.541194716	0.551	0.258	9.15E-81	11 TBC1D12
5.68E-85	0.540222711	0.861	0.549	1.82E-80	11 ADGRL2
2.06E-90	0.539676073	0.977	0.815	6.63E-86	11 ARID1B
1.70E-302	0.534435442	0.329	0.042	5.46E-298	11 GATA3-AS1
2.53E-70	0.532661766	0.864	0.588	8.11E-66	11 TCF7L2
3.15E-111	0.53171476	0.426	0.146	1.01E-106	11 FAM149A
5.33E-136	0.531312253	0.427	0.131	1.71E-131	11 SPTBN2
5.75E-05	0.531026342	0.279	0.228	1	11 SQSTM1
2.04E-85	0.530219288	0.719	0.367	6.55E-81	11 CACNA2D1
7.86E-94	0.528919515	0.823	0.494	2.53E-89	11 MIR3936HG
4.48E-97	0.528652042	0.594	0.268	1.44E-92	11 SORL1

2.17E-200	0.527540903	0.394	0.086	6.98E-196	11 AC139769.2
1.20E-138	0.5269818	0.392	0.11	3.86E-134	11 NEK10
4.01E-76	0.526571192	0.972	0.756	1.29E-71	11 KIAA1217
1.48E-85	0.526557022	0.569	0.272	4.76E-81	11 ANKRD13A
2.70E-36	0.525894853	0.478	0.289	8.68E-32	11 SLC19A2
4.85E-107	0.525848661	0.449	0.161	1.56E-102	11 LRR1Q1
3.26E-53	0.524737232	0.775	0.519	1.05E-48	11 JARID2
5.05E-67	0.521773101	0.749	0.451	1.62E-62	11 FAM107B
1.08E-73	0.518609574	0.764	0.481	3.48E-69	11 SNRPN
4.81E-59	0.518270998	0.829	0.562	1.54E-54	11 SGMS1
5.30E-61	0.515298098	0.62	0.362	1.70E-56	11 MBP
4.70E-112	0.515223801	0.599	0.252	1.51E-107	11 HYDIN
1.61E-80	0.514702473	0.754	0.373	5.16E-76	11 KCNJ15
1.54E-68	0.51226923	0.771	0.475	4.93E-64	11 RAI14
9.03E-81	0.511138482	0.654	0.343	2.90E-76	11 PDE9A
4.69E-57	0.510279399	0.701	0.436	1.51E-52	11 LCORL
2.59E-83	0.510168042	0.66	0.347	8.32E-79	11 ZNF10
5.80E-76	0.509470124	0.311	0.11	1.86E-71	11 AL355499.1
4.42E-104	0.509010585	0.58	0.245	1.42E-99	11 MTHFD1L
1.60E-68	0.507614519	0.803	0.526	5.15E-64	11 C11orf49
1.21E-65	0.506344362	0.469	0.224	3.90E-61	11 ATP8B1
4.78E-123	0.506109682	0.31	0.081	1.54E-118	11 RBKS
3.66E-22	0.506098762	0.363	0.223	1.17E-17	11 SNTG1
2.46E-15	0.504958106	0.367	0.26	7.91E-11	11 GNA13
8.72E-71	0.50474301	0.703	0.375	2.80E-66	11 SIM1
2.10E-53	0.504425373	0.946	0.669	6.73E-49	11 AC005208.1
1.26E-103	0.503816047	0.388	0.129	4.04E-99	11 AL512506.3
4.08E-81	0.502043073	0.613	0.307	1.31E-76	11 DZIP3
1.41E-84	0.501862011	0.835	0.474	4.52E-80	11 TOX3
4.95E-68	0.501258402	0.585	0.325	1.59E-63	11 DNAJB6
7.23E-69	0.501124241	0.648	0.356	2.32E-64	11 HGSNAT
1.03E-66	0.501119486	0.376	0.155	3.31E-62	11 UNC13C
4.64E-20	0.499793853	0.372	0.247	1.49E-15	11 ACTG1
5.34E-93	0.498724614	0.416	0.158	1.71E-88	11 PIM3
1.32E-70	0.497590294	0.794	0.492	4.26E-66	11 PTPN3
1.52E-83	0.496753043	0.668	0.344	4.89E-79	11 SCML1
7.33E-83	0.49540957	0.854	0.531	2.35E-78	11 PAX2
2.91E-86	0.495030529	0.666	0.346	9.36E-82	11 AC079594.1
7.02E-120	0.493339434	0.604	0.24	2.26E-115	11 TRPV4
9.70E-164	0.492687248	0.585	0.185	3.11E-159	11 ADGRF1
3.43E-82	0.492428971	0.638	0.324	1.10E-77	11 FLG-AS1
2.64E-86	0.492135473	0.36	0.131	8.47E-82	11 TFDPI
3.04E-55	0.492009163	0.46	0.235	9.76E-51	11 USP36
3.10E-65	0.491361231	0.65	0.349	9.96E-61	11 SGPP2
7.49E-140	0.491125322	0.516	0.169	2.40E-135	11 IQCA1
3.19E-63	0.491039478	0.725	0.46	1.03E-58	11 AC022826.2
1.73E-38	0.488358875	0.324	0.164	5.57E-34	11 PTMA
9.05E-70	0.487665255	0.67	0.384	2.91E-65	11 GRAMD1C
2.70E-189	0.486953574	0.348	0.07	8.67E-185	11 MOCOS
1.57E-77	0.485862275	0.446	0.189	5.05E-73	11 LINC00882
2.06E-115	0.485515587	0.657	0.3	6.60E-111	11 COPG2

8.74E-64	0.484117023	0.88	0.622	2.81E-59	11 AC027644.4
1.55E-93	0.48337943	0.509	0.212	4.98E-89	11 AL390879.1
5.54E-55	0.483180282	0.745	0.46	1.78E-50	11 LINC01725
1.59E-64	0.482658123	0.734	0.449	5.12E-60	11 PCGF5
1.51E-79	0.48222419	0.669	0.353	4.85E-75	11 SYTL2
4.40E-107	0.480617423	0.317	0.09	1.41E-102	11 AC025887.2
8.87E-82	0.480386343	0.737	0.387	2.85E-77	11 STOX2
1.32E-61	0.477114414	0.781	0.51	4.23E-57	11 ADAM10
6.25E-78	0.477112517	0.567	0.272	2.01E-73	11 CSRNP3
1.78E-86	0.476690325	0.488	0.211	5.72E-82	11 PAPSS1
6.84E-73	0.476420009	0.666	0.382	2.20E-68	11 BMS1P1
3.47E-64	0.475968445	0.57	0.3	1.11E-59	11 GALNT7
1.19E-82	0.473901114	0.65	0.331	3.83E-78	11 CASZ1
1.08E-77	0.473640733	0.899	0.596	3.48E-73	11 CCDC198
3.14E-79	0.473465518	0.661	0.35	1.01E-74	11 LINC01145
1.28E-226	0.472982996	0.252	0.032	4.12E-222	11 COL22A1
6.84E-57	0.472229708	0.623	0.366	2.20E-52	11 BCAR3
1.55E-68	0.471996116	0.291	0.103	4.96E-64	11 GRIK2
5.18E-102	0.47175983	0.515	0.201	1.66E-97	11 REPS2
6.38E-76	0.471472358	0.708	0.382	2.05E-71	11 DIAPH2
2.19E-86	0.470889241	0.611	0.287	7.02E-82	11 CEMIP2
2.19E-161	0.47079221	0.35	0.082	7.05E-157	11 AC004594.1
1.72E-92	0.470469357	0.378	0.134	5.53E-88	11 ZNF350-AS1
2.67E-57	0.469086756	0.813	0.545	8.58E-53	11 ARHGAP29
9.34E-108	0.465504142	0.341	0.103	3.00E-103	11 CATSPERB
1.03E-111	0.465170604	0.347	0.105	3.31E-107	11 HOXB7
6.04E-58	0.464032197	0.819	0.523	1.94E-53	11 TLN2
1.09E-61	0.462945649	0.834	0.557	3.50E-57	11 YAPI
2.41E-76	0.460531223	0.533	0.262	7.75E-72	11 MICOS10
1.62E-150	0.457982951	0.42	0.116	5.20E-146	11 KCP
4.79E-93	0.456790295	0.679	0.316	1.54E-88	11 ZNF98
3.55E-82	0.455437077	0.423	0.168	1.14E-77	11 PRTG
5.90E-26	0.455151845	0.407	0.252	1.89E-21	11 XIST
9.66E-97	0.45440787	0.594	0.262	3.10E-92	11 NHSL1
6.47E-34	0.453335198	0.628	0.412	2.08E-29	11 BACH2
1.55E-114	0.453320724	0.307	0.081	4.97E-110	11 PVT1
3.03E-152	0.452144979	0.332	0.076	9.74E-148	11 PRR5L
1.23E-51	0.451225591	0.755	0.489	3.95E-47	11 UMAD1
8.35E-143	0.450325444	0.285	0.062	2.68E-138	11 SIK1
5.90E-75	0.449385093	0.291	0.097	1.89E-70	11 EHF
1.27E-93	0.449305425	0.523	0.216	4.06E-89	11 PRDM16-DT
3.14E-57	0.448427935	0.819	0.56	1.01E-52	11 SDCCAG8
9.99E-103	0.448225114	0.399	0.135	3.21E-98	11 LIPH
1.19E-73	0.447868795	0.69	0.371	3.83E-69	11 IPCEF1
2.38E-17	0.447430532	0.302	0.192	7.65E-13	11 ZFP36
8.81E-60	0.447279521	0.65	0.383	2.83E-55	11 RLF
5.80E-53	0.446875177	0.765	0.488	1.86E-48	11 MLLT3
1.46E-83	0.446351928	0.775	0.44	4.70E-79	11 PALLD
4.05E-58	0.443606216	0.785	0.5	1.30E-53	11 GAB1
3.28E-75	0.442005353	0.948	0.72	1.05E-70	11 GLS
1.07E-72	0.440005635	0.502	0.228	3.44E-68	11 COL28A1

1.61E-45	0.439377237	0.921	0.702	5.17E-41	11 DLG2
3.18E-131	0.438081821	0.32	0.081	1.02E-126	11 GMNN
5.17E-127	0.436507853	0.324	0.084	1.66E-122	11 SMIM41
3.58E-79	0.434554434	0.47	0.205	1.15E-74	11 RAB40C
4.71E-55	0.434417641	0.488	0.253	1.51E-50	11 GPD2
1.68E-54	0.433144181	0.838	0.587	5.39E-50	11 NBEA
3.92E-60	0.431851103	0.679	0.397	1.26E-55	11 UBL3
8.27E-108	0.429672383	0.37	0.117	2.66E-103	11 NEK5
2.65E-93	0.429144509	0.398	0.146	8.50E-89	11 GLUD1P2
8.16E-80	0.429019573	0.895	0.56	2.62E-75	11 NEBL
4.70E-78	0.427946925	0.435	0.177	1.51E-73	11 KCNS3
3.39E-65	0.42792867	0.712	0.406	1.09E-60	11 DNAH7
6.14E-57	0.427311353	0.602	0.346	1.97E-52	11 SYNJ2BP-COX10
1.42E-64	0.427041476	0.572	0.31	4.55E-60	11 MFN1
1.40E-136	0.424690286	0.379	0.103	4.50E-132	11 TLE2
8.67E-85	0.423694703	0.377	0.139	2.79E-80	11 CROT
2.50E-59	0.423249509	0.645	0.369	8.04E-55	11 IQCH
6.87E-59	0.422310773	0.919	0.686	2.21E-54	11 KIAA1109
1.57E-56	0.422260856	0.893	0.669	5.05E-52	11 PCM1
2.23E-28	0.422143511	0.494	0.321	7.16E-24	11 COL4A1
6.48E-49	0.420818388	0.404	0.198	2.08E-44	11 RNF144B
1.46E-72	0.420449363	0.514	0.236	4.69E-68	11 CPVL
2.09E-52	0.420256423	0.856	0.626	6.72E-48	11 MARK3
1.45E-162	0.419412508	0.323	0.068	4.66E-158	11 CORO2B
4.83E-43	0.418979457	0.29	0.133	1.55E-38	11 TOB1
4.61E-64	0.4182037	0.697	0.404	1.48E-59	11 NEK11
6.83E-60	0.417030157	0.637	0.366	2.19E-55	11 CU633904.1
1.09E-65	0.415134487	0.488	0.237	3.50E-61	11 CEP170
1.74E-58	0.414681179	0.511	0.267	5.59E-54	11 ZNF236
9.42E-52	0.413933895	0.807	0.563	3.03E-47	11 TLK1
2.48E-85	0.410696864	0.339	0.117	7.95E-81	11 TLCD4
1.15E-35	0.410563815	0.802	0.58	3.70E-31	11 TRHDE
3.67E-56	0.410362223	0.423	0.201	1.18E-51	11 PTP4A1
2.59E-96	0.410181834	0.339	0.108	8.32E-92	11 CFAP47
3.72E-80	0.409706972	0.448	0.19	1.19E-75	11 ZC2HC1A
7.32E-74	0.409532948	0.56	0.275	2.35E-69	11 AC133644.2
1.35E-53	0.4089218	0.887	0.671	4.34E-49	11 FNDC3A
1.98E-45	0.406840763	0.632	0.392	6.36E-41	11 LRRC28
2.22E-58	0.406419988	0.619	0.349	7.13E-54	11 TEX9
2.50E-40	0.406232441	0.76	0.524	8.04E-36	11 HIVEP2
4.34E-32	0.40610853	0.463	0.285	1.39E-27	11 ZNF141
5.10E-39	0.404835717	0.486	0.28	1.64E-34	11 SCN3A
7.47E-60	0.40419379	0.425	0.191	2.40E-55	11 LINC01788
7.79E-88	0.403450548	0.373	0.134	2.50E-83	11 AC106795.1
1.76E-66	0.402982959	0.507	0.249	5.65E-62	11 GK5
7.67E-65	0.402721494	0.56	0.293	2.46E-60	11 DYNC2LI1
2.02E-62	0.402401143	0.582	0.31	6.50E-58	11 MBOAT2
1.73E-74	0.401959302	0.434	0.179	5.57E-70	11 HSPA1B
4.03E-58	0.401075453	0.789	0.512	1.29E-53	11 AC124312.1
6.48E-47	0.400331337	0.906	0.687	2.08E-42	11 TRAPPC9
3.37E-77	0.400053511	0.427	0.176	1.08E-72	11 AC011447.3

3.04E-87	0.399717592	0.377	0.136	9.75E-83	11 HOXD10
2.31E-204	0.399291719	0.268	0.04	7.41E-200	11 OVCH2
3.32E-58	0.39925284	0.361	0.154	1.07E-53	11 TFAP2B
5.17E-34	0.398157165	0.72	0.509	1.66E-29	11 MAN1A1
1.08E-107	0.39776282	0.351	0.105	3.47E-103	11 CCDC88C
1.03E-36	0.397174447	0.713	0.496	3.31E-32	11 SMAD2
7.23E-105	0.396437203	0.31	0.09	2.32E-100	11 C3orf86
2.94E-59	0.396165018	0.813	0.513	9.45E-55	11 OPHN1
7.24E-129	0.395000489	0.312	0.078	2.32E-124	11 PGM5P2
1.74E-70	0.394875991	0.386	0.158	5.58E-66	11 SYT9
1.39E-99	0.394021194	0.3	0.087	4.48E-95	11 HOXD-AS2
1.60E-59	0.393063548	0.98	0.826	5.15E-55	11 DDX17
9.55E-48	0.392875258	0.407	0.202	3.07E-43	11 PRKCQ
4.30E-111	0.392765141	0.338	0.098	1.38E-106	11 FAM3B
3.30E-29	0.392069132	0.68	0.479	1.06E-24	11 CYSTM1
3.10E-53	0.391205079	0.397	0.182	9.97E-49	11 NEXMIF
1.28E-83	0.390505863	0.37	0.136	4.12E-79	11 GPRC5C
1.43E-73	0.389758906	0.304	0.107	4.59E-69	11 TBC1D30
6.99E-99	0.389203568	0.356	0.115	2.25E-94	11 DMKN
1.09E-82	0.388813526	0.463	0.191	3.51E-78	11 FANK1
2.86E-83	0.388495479	0.337	0.116	9.20E-79	11 TMEM45B
6.45E-96	0.388319214	0.415	0.148	2.07E-91	11 AC243772.3
2.21E-51	0.388316658	0.777	0.514	7.11E-47	11 CAB39
1.83E-141	0.386925133	0.281	0.059	5.88E-137	11 AL157871.6
4.28E-73	0.386854663	0.521	0.246	1.37E-68	11 METTL9
2.66E-123	0.386512656	0.535	0.192	8.53E-119	11 PRKCH
9.71E-55	0.386363614	0.424	0.208	3.12E-50	11 METAP2
1.50E-51	0.385490567	0.399	0.191	4.81E-47	11 LINC01006
6.03E-53	0.384874063	0.805	0.521	1.94E-48	11 MAML3
1.72E-64	0.384639386	0.672	0.366	5.51E-60	11 AC004593.2
2.22E-71	0.384449711	0.322	0.119	7.13E-67	11 BTG3
1.56E-63	0.384369104	0.511	0.256	5.01E-59	11 COG7
8.77E-58	0.383887357	0.324	0.136	2.82E-53	11 C9orf72
2.84E-63	0.383623243	0.436	0.198	9.11E-59	11 CAB39L
1.77E-27	0.383471526	0.953	0.795	5.68E-23	11 SOX6
8.77E-38	0.382801754	0.759	0.515	2.82E-33	11 ST7
1.45E-07	0.381523391	0.394	0.323	0.00466293	11 ACTB
1.47E-69	0.380332205	0.445	0.2	4.72E-65	11 REL
6.90E-51	0.379571987	0.385	0.182	2.22E-46	11 TWSG1
5.41E-48	0.37945126	0.27	0.109	1.74E-43	11 GABRA2
1.95E-69	0.376988456	0.307	0.113	6.26E-65	11 CASP9
1.19E-41	0.376225809	0.685	0.444	3.82E-37	11 YWHAZ
4.03E-74	0.375576279	0.543	0.259	1.30E-69	11 RPH3AL
5.42E-59	0.375406217	0.564	0.298	1.74E-54	11 CYS1
7.94E-32	0.374306014	0.749	0.538	2.55E-27	11 PELI2
2.18E-80	0.373219862	0.332	0.118	7.01E-76	11 TBC1D7
1.36E-41	0.371591281	0.524	0.312	4.36E-37	11 MGAT4A
4.26E-24	0.371092132	0.365	0.219	1.37E-19	11 NFKBIZ
3.61E-57	0.370938623	0.766	0.468	1.16E-52	11 FAAH2
4.38E-41	0.369975129	0.939	0.682	1.41E-36	11 FHOD3
2.69E-52	0.369230903	0.773	0.501	8.63E-48	11 UACA

3.99E-36	0.36901564	0.683	0.471	1.28E-31	11 DOP1A
2.14E-68	0.367060927	0.513	0.244	6.88E-64	11 PARP8
1.22E-72	0.366693844	0.258	0.082	3.92E-68	11 AC009961.1
1.23E-49	0.365286061	0.954	0.797	3.94E-45	11 SNHG14
5.27E-46	0.36480522	0.511	0.286	1.69E-41	11 LAMC1
1.26E-42	0.364665915	0.454	0.243	4.05E-38	11 CASC2
9.00E-55	0.364166988	0.652	0.389	2.89E-50	11 CABIN1
2.49E-68	0.362893862	0.412	0.181	8.01E-64	11 PRKAR1A
1.08E-65	0.362868995	0.429	0.19	3.46E-61	11 ZNF43
3.44E-99	0.362593468	0.907	0.47	1.10E-94	11 PDE1A
5.91E-54	0.362432527	0.623	0.359	1.90E-49	11 LAMTOR5-AS1
4.68E-59	0.362380164	0.901	0.607	1.50E-54	11 KCNIP4
8.28E-60	0.362076383	0.362	0.153	2.66E-55	11 TTC39C
1.25E-48	0.361914319	0.301	0.13	4.01E-44	11 CD55
1.49E-70	0.360618744	0.338	0.126	4.78E-66	11 TET1
1.24E-39	0.360351012	0.836	0.613	3.99E-35	11 WAC
2.68E-60	0.359755699	0.588	0.318	8.60E-56	11 PRDM2
2.25E-57	0.358822798	0.76	0.457	7.22E-53	11 PRR5-ARHGAP8
1.92E-43	0.358797375	0.749	0.473	6.16E-39	11 GALNT18
2.94E-37	0.358616718	0.602	0.381	9.43E-33	11 MINDY2
1.26E-38	0.357359268	0.784	0.558	4.04E-34	11 METTL15
6.44E-45	0.35692316	0.443	0.239	2.07E-40	11 RGPD4
2.74E-58	0.355930937	0.545	0.288	8.79E-54	11 EIPR1
7.37E-54	0.354553537	0.407	0.195	2.37E-49	11 EPCAM
8.50E-33	0.353826849	0.633	0.419	2.73E-28	11 HLCS
8.46E-48	0.353227902	0.802	0.499	2.72E-43	11 SKAP1
7.25E-37	0.352342643	0.856	0.646	2.33E-32	11 ZMYM2
6.18E-76	0.352316681	0.349	0.129	1.99E-71	11 JUND
7.23E-46	0.352182227	0.735	0.488	2.32E-41	11 SMAD3
1.74E-42	0.351950862	0.768	0.523	5.58E-38	11 UBAC2
5.31E-56	0.351864657	0.454	0.221	1.71E-51	11 AGPAT5
5.16E-40	0.349949354	0.971	0.812	1.66E-35	11 NEDD4L
2.00E-27	0.349213895	0.891	0.693	6.42E-23	11 TEAD1
2.43E-59	0.349133617	0.38	0.166	7.82E-55	11 FZD4
1.46E-36	0.349039966	0.641	0.423	4.68E-32	11 ATP11B
1.30E-41	0.346980521	0.402	0.214	4.18E-37	11 RGPD1
1.93E-49	0.34672691	0.389	0.184	6.19E-45	11 DENND3
1.51E-34	0.344642612	0.352	0.185	4.86E-30	11 STAT1
5.22E-51	0.344411867	0.527	0.287	1.68E-46	11 ZNF420
8.31E-44	0.34431488	0.52	0.298	2.67E-39	11 NAA50
1.79E-48	0.34430462	0.535	0.296	5.74E-44	11 DAP
1.08E-55	0.344218064	0.591	0.322	3.48E-51	11 CFAP221
2.49E-45	0.342981586	0.88	0.65	7.98E-41	11 MAP4
6.01E-43	0.342768185	0.579	0.346	1.93E-38	11 FBXL2
6.49E-35	0.342114059	0.69	0.475	2.08E-30	11 ZFYVE16
4.34E-52	0.341448146	0.89	0.623	1.39E-47	11 TBC1D1
6.91E-53	0.340642386	0.541	0.287	2.22E-48	11 TUSC3
8.48E-52	0.340273879	0.492	0.26	2.72E-47	11 SLC22A4
1.38E-46	0.339649628	0.293	0.128	4.42E-42	11 PRMT9
2.89E-37	0.339592827	0.7	0.472	9.27E-33	11 MARCHF7
1.81E-41	0.336841309	0.959	0.823	5.80E-37	11 ZFAND3

9.44E-54	0.335011839	0.346	0.15	3.03E-49	11 AC117834.1
3.50E-44	0.334826302	0.833	0.592	1.12E-39	11 TMEM131
3.32E-74	0.334757132	0.526	0.231	1.07E-69	11 EMX1
9.73E-41	0.334507005	0.415	0.219	3.13E-36	11 AC027097.2
3.42E-31	0.334494878	0.819	0.614	1.10E-26	11 TBL1XR1
5.56E-52	0.334388512	0.533	0.283	1.78E-47	11 AL050309.1
1.24E-56	0.33432628	0.363	0.161	3.98E-52	11 PPP2R1A
1.61E-36	0.334062215	0.773	0.541	5.17E-32	11 ROCK2
4.21E-35	0.333696135	0.414	0.234	1.35E-30	11 RGPD2
8.02E-72	0.332837926	0.308	0.11	2.58E-67	11 TLE3
2.80E-63	0.332601858	0.438	0.201	9.01E-59	11 GSTM4
9.35E-61	0.330977992	0.323	0.129	3.00E-56	11 SNAPC1
5.84E-48	0.330808058	0.521	0.282	1.88E-43	11 FAM117B
1.38E-38	0.330597993	0.326	0.156	4.44E-34	11 PAPSS2
9.31E-60	0.330098285	0.382	0.172	2.99E-55	11 TMEM50B
5.93E-17	0.329826394	0.677	0.509	1.90E-12	11 BCKDHB
1.90E-44	0.329684729	0.352	0.167	6.10E-40	11 LHFPL3-AS2
1.92E-48	0.329394519	0.795	0.498	6.15E-44	11 WDFY2
3.18E-34	0.329047064	0.728	0.484	1.02E-29	11 MFHAS1
4.26E-66	0.328918134	0.287	0.1	1.37E-61	11 IER3
4.64E-47	0.328820488	0.53	0.302	1.49E-42	11 ELP2
4.97E-41	0.328700761	0.482	0.273	1.60E-36	11 SMAD1
3.48E-62	0.327950439	0.445	0.2	1.12E-57	11 PRDM5
3.18E-57	0.326349421	0.447	0.213	1.02E-52	11 PPM1K
3.03E-17	0.326188798	0.343	0.224	9.74E-13	11 RCAN1
8.73E-125	0.325257126	0.46	0.143	2.80E-120	11 DOCK10
3.73E-41	0.324394423	0.565	0.338	1.20E-36	11 PER1
2.93E-58	0.324130127	0.39	0.171	9.41E-54	11 POU5F1
3.52E-60	0.324045091	0.333	0.135	1.13E-55	11 SMCO4
3.42E-48	0.324042197	0.557	0.307	1.10E-43	11 ADCY9
6.92E-56	0.324041205	0.669	0.369	2.22E-51	11 GLDC
2.64E-40	0.323959439	0.591	0.363	8.47E-36	11 TBC1D32
3.99E-39	0.322997833	0.906	0.698	1.28E-34	11 NCOR1
5.02E-73	0.322822246	0.409	0.165	1.61E-68	11 ABO
2.06E-25	0.321956441	0.34	0.196	6.61E-21	11 GADD45B
2.91E-39	0.321331959	0.788	0.547	9.35E-35	11 MRTFA
1.36E-28	0.320378126	0.736	0.529	4.36E-24	11 MRPL33
1.57E-40	0.320172579	0.672	0.425	5.03E-36	11 CMAHP
8.90E-60	0.318710229	0.444	0.206	2.86E-55	11 HYDIN2
2.33E-43	0.318635753	0.453	0.244	7.48E-39	11 SIMC1
2.56E-50	0.318566885	0.276	0.112	8.23E-46	11 UCK2
8.52E-45	0.318433348	0.502	0.281	2.74E-40	11 FP236241.1
6.27E-50	0.318397585	0.465	0.244	2.01E-45	11 SLC35A3
3.68E-46	0.318270863	0.689	0.405	1.18E-41	11 SPATS2L
1.03E-22	0.318143496	0.651	0.452	3.31E-18	11 SCN2A
2.60E-27	0.318107001	0.513	0.337	8.34E-23	11 AGO2
2.57E-89	0.316508645	0.269	0.078	8.26E-85	11 FRG1JP
8.00E-44	0.316152199	0.845	0.599	2.57E-39	11 CD2AP
4.01E-52	0.315493661	0.777	0.47	1.29E-47	11 MYO1D
6.61E-29	0.314847837	0.901	0.708	2.12E-24	11 NCOA2
4.08E-48	0.3143803	0.409	0.206	1.31E-43	11 RNF114

2.02E-79	0.313611488	0.313	0.107	6.49E-75	11 AC003688.1
5.33E-37	0.312887628	0.731	0.508	1.71E-32	11 STAG2
2.36E-88	0.311939452	0.41	0.148	7.59E-84	11 TBX2
6.68E-24	0.311555834	0.73	0.534	2.14E-19	11 STAT3
1.19E-51	0.310839481	0.806	0.498	3.82E-47	11 KIFC3
2.02E-41	0.310814585	0.681	0.432	6.48E-37	11 CCDC171
1.39E-50	0.310189235	0.46	0.235	4.45E-46	11 ITPK1
2.82E-47	0.309508367	0.76	0.489	9.05E-43	11 CBR4
1.87E-45	0.309334524	0.736	0.463	6.01E-41	11 EPB41L1
6.86E-32	0.308606833	0.747	0.521	2.20E-27	11 AF117829.1
3.09E-44	0.30850267	0.57	0.323	9.93E-40	11 MCC
1.22E-61	0.308446337	0.326	0.129	3.90E-57	11 ZNF100
4.71E-58	0.308052245	0.318	0.13	1.51E-53	11 LINC01226
1.35E-34	0.307605201	0.787	0.564	4.35E-30	11 LARP4B
3.02E-52	0.307241667	0.307	0.127	9.69E-48	11 EPOR
1.35E-40	0.306942239	0.544	0.321	4.32E-36	11 NR2F2-AS1
7.93E-32	0.306864003	0.842	0.637	2.55E-27	11 EPB41L5
2.68E-49	0.306374556	0.434	0.215	8.61E-45	11 DNAH6
6.16E-39	0.305524677	0.523	0.298	1.98E-34	11 CHPT1
1.76E-67	0.30478558	0.276	0.094	5.65E-63	11 FAM241A
2.56E-46	0.304782056	0.667	0.392	8.22E-42	11 ABCC5
8.01E-35	0.3043664	0.836	0.608	2.57E-30	11 PUM1
1.02E-41	0.304305413	0.7	0.464	3.27E-37	11 TNRC18
3.09E-25	0.303665389	0.861	0.67	9.92E-21	11 DLG1
1.35E-41	0.30355344	0.513	0.292	4.34E-37	11 RTN3
1.09E-34	0.302017425	0.894	0.673	3.50E-30	11 EIF4G3
1.22E-33	0.301487714	0.961	0.831	3.93E-29	11 MBD5
4.01E-78	0.300965799	0.437	0.178	1.29E-73	11 RECQL5
1.80E-24	0.300053396	0.809	0.595	5.79E-20	11 FOXO1
1.36E-49	0.299963656	0.532	0.291	4.38E-45	11 LINC00623
4.74E-45	0.299874656	0.483	0.263	1.52E-40	11 DCTN4
3.64E-21	0.299402933	0.377	0.235	1.17E-16	11 ATP11C
8.13E-78	0.299349557	0.313	0.105	2.61E-73	11 CWH43
6.85E-40	0.299322161	0.448	0.249	2.20E-35	11 MGST3
6.42E-45	0.299176051	0.396	0.199	2.06E-40	11 CLHC1
1.18E-56	0.299098492	0.303	0.119	3.80E-52	11 RASEF
9.02E-36	0.297270768	0.689	0.453	2.90E-31	11 PPA2
6.92E-35	0.296372045	0.6	0.385	2.22E-30	11 PARD6B
4.06E-89	0.29620366	0.278	0.081	1.30E-84	11 SCAMP5
4.45E-46	0.295509589	0.76	0.481	1.43E-41	11 RALGPS2
9.52E-40	0.295209036	0.371	0.189	3.06E-35	11 RAB27A
4.99E-33	0.294664869	0.738	0.51	1.60E-28	11 PDSS2
6.00E-49	0.294581665	0.371	0.173	1.93E-44	11 ESRP1
1.88E-70	0.294075129	0.279	0.094	6.05E-66	11 TTC26
9.33E-42	0.294052573	0.687	0.434	3.00E-37	11 IQGAP1
6.82E-20	0.293967649	0.68	0.514	2.19E-15	11 CCNL1
1.09E-39	0.293926469	0.583	0.348	3.51E-35	11 RAP1GAP2
4.49E-34	0.293774565	0.825	0.585	1.44E-29	11 ANKRD10
1.60E-36	0.29353947	0.797	0.564	5.15E-32	11 PHKB
2.09E-36	0.292547227	0.371	0.198	6.71E-32	11 UQCRH
2.43E-42	0.29240744	0.434	0.233	7.81E-38	11 NCK2

5.03E-31	0.291286109	0.358	0.2	1.61E-26	11 TMEM184C
4.54E-43	0.290581656	0.462	0.244	1.46E-38	11 MARK1
4.42E-55	0.290404148	0.353	0.152	1.42E-50	11 C5AR1
9.80E-29	0.289922274	0.658	0.46	3.15E-24	11 MAP2K5
1.23E-50	0.289057767	0.32	0.139	3.94E-46	11 CXADR
4.23E-70	0.288892404	0.265	0.087	1.36E-65	11 EEF2K
1.44E-34	0.288351534	0.625	0.404	4.63E-30	11 ACACA
4.11E-42	0.288253403	0.809	0.552	1.32E-37	11 KIF13B
2.28E-29	0.287497522	0.915	0.708	7.33E-25	11 BRAF
3.55E-40	0.287420605	0.35	0.177	1.14E-35	11 NAPA
7.61E-28	0.287342799	0.812	0.588	2.44E-23	11 DAB1
9.35E-61	0.286429425	0.357	0.146	3.00E-56	11 LHX1-DT
1.29E-28	0.286382586	0.832	0.625	4.16E-24	11 TTC3
2.65E-83	0.286363559	0.254	0.073	8.53E-79	11 FAM124A
1.79E-26	0.285844864	0.942	0.775	5.75E-22	11 SETBP1
3.57E-61	0.285738982	0.32	0.125	1.15E-56	11 CDKL2
2.73E-52	0.285373581	0.327	0.142	8.76E-48	11 AC107068.2
6.13E-41	0.285314831	0.353	0.174	1.97E-36	11 ZC3H12B
1.18E-30	0.285047509	0.925	0.73	3.79E-26	11 MYO6
1.26E-32	0.28488291	0.553	0.349	4.04E-28	11 EFCAB6
9.47E-28	0.284691407	0.62	0.412	3.04E-23	11 LHFPL3
2.71E-59	0.282434971	0.302	0.115	8.70E-55	11 JAM3
7.65E-26	0.281781221	0.899	0.726	2.46E-21	11 SMYD3
7.06E-30	0.281733151	0.715	0.508	2.27E-25	11 TASP1
1.29E-51	0.281578134	0.317	0.134	4.14E-47	11 SOGA1
1.33E-38	0.28139513	0.342	0.171	4.26E-34	11 SLC25A30
1.72E-54	0.281394402	0.456	0.222	5.53E-50	11 ABCC1
1.06E-27	0.281340978	0.284	0.15	3.40E-23	11 CA2
1.91E-20	0.280120862	0.753	0.575	6.14E-16	11 USP9X
1.30E-61	0.280061131	0.301	0.113	4.19E-57	11 AC015908.7
7.37E-35	0.279601003	0.706	0.478	2.37E-30	11 GPBP1L1
1.08E-57	0.278939608	0.384	0.171	3.45E-53	11 ZSCAN18
8.14E-29	0.278505922	0.598	0.392	2.61E-24	11 CMSS1
5.56E-24	0.278330431	0.999	0.949	1.79E-19	11 RASGEF1B
3.15E-30	0.275859435	0.648	0.431	1.01E-25	11 ZNF827
9.96E-58	0.275536246	0.303	0.119	3.20E-53	11 AC092821.3
8.36E-43	0.274590833	0.3	0.132	2.69E-38	11 NDST3
3.50E-45	0.274379485	0.612	0.359	1.12E-40	11 ODF2L
3.53E-49	0.274181774	0.348	0.156	1.13E-44	11 LINC00963
1.33E-30	0.274035744	0.803	0.565	4.26E-26	11 MRTFB
1.39E-32	0.27387642	0.514	0.313	4.48E-28	11 RAB11FIP2
1.31E-38	0.273662279	0.348	0.178	4.20E-34	11 VTI1B
6.47E-13	0.273605553	0.307	0.203	2.08E-08	11 FSTL4
2.00E-31	0.273001071	0.639	0.423	6.41E-27	11 TTLL5
1.56E-36	0.272816022	0.745	0.496	5.02E-32	11 RFX3
1.16E-64	0.272646266	0.394	0.165	3.74E-60	11 SH3GLB2
1.05E-38	0.272612437	0.338	0.168	3.37E-34	11 SCOC
1.50E-56	0.272532297	0.264	0.097	4.80E-52	11 AC139795.2
2.72E-39	0.271948327	0.489	0.271	8.72E-35	11 ANKRD6
1.33E-35	0.271864316	0.613	0.381	4.28E-31	11 HNF1B
3.11E-42	0.271476772	0.591	0.353	9.98E-38	11 WDSUB1

2.12E-31	0.270909856	0.613	0.396	6.79E-27	11 URI1
4.26E-64	0.270788878	0.388	0.161	1.37E-59	11 CLEC2D
3.80E-54	0.270306262	0.302	0.123	1.22E-49	11 OR2A20P
7.59E-29	0.270205196	0.872	0.668	2.44E-24	11 MAP4K3
1.98E-58	0.269374119	0.309	0.122	6.34E-54	11 STX2
4.15E-36	0.269306476	0.7	0.458	1.33E-31	11 SREBF2
4.31E-24	0.269181645	0.542	0.352	1.38E-19	11 GABARAPL1
5.96E-47	0.268989903	0.425	0.211	1.91E-42	11 ZNRF1
2.68E-26	0.268941406	0.72	0.509	8.60E-22	11 RPRD2
2.13E-35	0.26840874	0.642	0.413	6.86E-31	11 TCAIM
1.28E-57	0.268316567	0.265	0.097	4.11E-53	11 GPRC5B
8.93E-48	0.267823027	0.602	0.341	2.87E-43	11 ABHD15-AS1
2.74E-64	0.267637377	0.421	0.182	8.79E-60	11 DNAAF4-CCPG1
2.21E-38	0.26748692	0.656	0.414	7.11E-34	11 TPTE2P5
6.25E-23	0.266851841	0.369	0.224	2.01E-18	11 AL359710.1
1.35E-35	0.266732696	0.717	0.476	4.34E-31	11 FMNL2
2.96E-29	0.266713468	0.652	0.447	9.49E-25	11 AP1G1
5.09E-29	0.266194825	0.297	0.157	1.63E-24	11 EIF4H
1.06E-35	0.26534043	0.567	0.353	3.41E-31	11 KATNBL1
6.41E-30	0.26464455	0.409	0.24	2.06E-25	11 AP3S1
3.00E-30	0.264347328	0.713	0.496	9.62E-26	11 PHF21A
2.03E-25	0.263792952	0.614	0.42	6.53E-21	11 SLX4IP
1.00E-29	0.263322492	0.735	0.499	3.22E-25	11 RREB1
6.76E-27	0.262576482	0.74	0.541	2.17E-22	11 HUWE1
1.99E-46	0.262523854	0.337	0.158	6.39E-42	11 AC011043.1
2.25E-45	0.262495711	0.389	0.184	7.22E-41	11 MBOAT1
1.98E-27	0.262443088	0.337	0.19	6.37E-23	11 G3BP2
2.01E-19	0.261975394	0.93	0.78	6.46E-15	11 BCAS3
3.35E-34	0.261602469	0.589	0.368	1.08E-29	11 FAR1
1.78E-42	0.261541895	0.497	0.276	5.72E-38	11 CLIP4
4.41E-30	0.260707201	0.323	0.17	1.41E-25	11 PLPP4
1.71E-32	0.260376742	0.702	0.469	5.49E-28	11 CCDC7
6.52E-26	0.260253113	0.96	0.817	2.09E-21	11 PCCA
3.67E-40	0.260121374	0.672	0.412	1.18E-35	11 GTF2IRD1
1.05E-47	0.259844089	0.713	0.432	3.37E-43	11 RGL3
1.30E-38	0.259836061	0.355	0.176	4.17E-34	11 SPATA17
1.02E-32	0.259033413	0.357	0.19	3.28E-28	11 SEMA4B
7.84E-22	0.258814887	0.356	0.216	2.52E-17	11 EIF2AK3
8.63E-22	0.258235438	0.699	0.522	2.77E-17	11 FGF7P3
5.07E-46	0.257921195	0.508	0.268	1.63E-41	11 PFKP
1.96E-23	0.257519298	0.893	0.718	6.30E-19	11 KANSL1L
1.08E-14	0.257284354	0.357	0.234	3.47E-10	11 ANKS1B
2.41E-29	0.256265983	0.78	0.562	7.72E-25	11 UGGT2
2.07E-35	0.255954465	0.642	0.419	6.64E-31	11 NUP98
8.62E-28	0.255785139	0.605	0.412	2.77E-23	11 RELCH
2.61E-15	0.25543455	0.445	0.323	8.38E-11	11 LINC00278
3.35E-46	0.254795707	0.464	0.24	1.07E-41	11 SSH1
3.63E-47	0.254522276	0.363	0.172	1.17E-42	11 NELFA
3.67E-25	0.254008621	0.705	0.506	1.18E-20	11 DENND1B
2.48E-36	0.253717228	0.974	0.834	7.97E-32	11 PARD3
3.75E-26	0.253136873	0.905	0.725	1.20E-21	11 STAG1

8.47E-32	0.252765858	0.298	0.151	2.72E-27	11 ZDBF2
5.74E-27	0.252613937	0.895	0.702	1.84E-22	11 STK3
5.39E-56	0.252371301	0.339	0.139	1.73E-51	11 LHX1
9.10E-62	0.252257335	0.261	0.09	2.92E-57	11 PLSR2
2.26E-28	0.251265834	0.66	0.453	7.26E-24	11 ARHGAP12
4.19E-46	0.25094965	0.398	0.198	1.35E-41	11 PDHA1
5.99E-47	0.250787299	0.287	0.119	1.92E-42	11 TFAP2A
3.69E-39	0.25011389	0.274	0.124	1.18E-34	11 PABPC4
0	4.29711234	0.902	0.092	0	12 LINC01435
0	4.235816242	0.954	0.276	0	12 ALDH1A2
0	3.393745269	0.899	0.029	0	12 CFH
0	3.383059117	0.881	0.072	0	12 KCNT2
0	3.253026436	0.924	0.389	0	12 FRMD4A
0	3.245317326	0.629	0.031	0	12 KIRREL3
0	3.137194376	0.692	0.123	0	12 GRM5
0	3.011248323	0.886	0.164	0	12 ZFPM2
0	2.807685834	0.498	0.057	0	12 VCAM1
0	2.730025888	0.855	0.164	0	12 FBXL7
0	2.703262662	0.839	0.218	0	12 NRG3
0	2.586751714	0.804	0.099	0	12 TSHZ2
5.87E-265	2.571865801	0.816	0.303	1.88E-260	12 RBFOX1
0	2.463116055	0.568	0.028	0	12 CLDN1
0	2.444742035	0.817	0.161	0	12 TENM3
1.19E-305	2.333938609	0.42	0.062	3.83E-301	12 CADM2
0	2.314402591	0.742	0.109	0	12 SLIT3
0	2.270346741	0.846	0.221	0	12 KCNMB2
0	2.263612907	0.496	0.045	0	12 CCN2
0	2.235524924	0.908	0.374	0	12 RERG
1.12E-277	2.230828459	0.885	0.411	3.59E-273	12 BICD1
1.95E-208	2.220229322	0.889	0.565	6.25E-204	12 CRIM1
0	2.189920055	0.439	0.016	0	12 PDLIM3
0	2.182531904	0.506	0.091	0	12 MGAT4C
0	2.158163543	0.799	0.156	0	12 BX571818.1
2.63E-218	2.143579232	0.515	0.127	8.44E-214	12 ATF3
0	2.138969542	0.812	0.246	0	12 ARHGAP10
0	2.136673554	0.719	0.099	0	12 ITGB3
0	2.133315795	0.689	0.075	0	12 MSC-AS1
0	2.12026997	0.794	0.246	0	12 TPM1
0	2.086486135	0.765	0.223	0	12 AC068234.1
6.94E-124	2.084634183	0.604	0.258	2.23E-119	12 HOMER1
1.17E-303	2.072564532	0.909	0.42	3.75E-299	12 OSBPL10
0	2.068286134	0.445	0.007	0	12 SLC4A11
0	2.064887668	0.715	0.119	0	12 AKAP12
0	2.051907073	0.659	0.059	0	12 AC003984.1
1.23E-270	2.041409832	0.78	0.264	3.94E-266	12 CTTNBP2
2.34E-218	1.988722378	0.922	0.474	7.50E-214	12 PDE1A
0	1.987455867	0.479	0.037	0	12 ANXA1
3.66E-190	1.974833419	0.711	0.297	1.18E-185	12 UGCG
0	1.944943827	0.584	0.081	0	12 TMEM163
0	1.939041499	0.764	0.213	0	12 TSPAN5
1.10E-233	1.938237655	0.586	0.161	3.54E-229	12 RFX2

0	1.931437103	0.473	0.056	0	12 AC007744.1
4.18E-238	1.91968305	0.853	0.363	1.34E-233	12 ITGB8
2.89E-103	1.90391286	0.482	0.195	9.27E-99	12 LMNA
2.36E-167	1.879712269	0.443	0.114	7.59E-163	12 CRYAB
6.69E-90	1.860658944	0.524	0.243	2.15E-85	12 AC012593.1
4.16E-158	1.855239387	0.696	0.317	1.34E-153	12 KLF6
0	1.848725587	0.712	0.14	0	12 SIPA1L2
0	1.831705419	0.669	0.096	0	12 ADGRG6
4.54E-161	1.826330786	0.744	0.364	1.46E-156	12 TGFBR2
7.56E-240	1.824789415	0.329	0.047	2.43E-235	12 MDGA2
0	1.822240444	0.483	0.042	0	12 LRFN5
3.28E-262	1.797269425	0.758	0.253	1.05E-257	12 FAM189A1
7.94E-289	1.778051019	0.855	0.304	2.55E-284	12 DUSP1
8.92E-155	1.772583809	0.42	0.112	2.87E-150	12 SLC35F4
7.84E-263	1.766506193	0.967	0.667	2.52E-258	12 SYNE1
2.17E-170	1.738424886	0.715	0.327	6.97E-166	12 AL139807.1
0	1.732553511	0.335	0.027	0	12 TNC
2.58E-209	1.716243204	0.845	0.383	8.28E-205	12 CNTN4
0	1.697966955	0.563	0.081	0	12 MAP2
1.31E-174	1.673252366	0.816	0.436	4.19E-170	12 FAT1
0	1.660571714	0.404	0.027	0	12 CRISPLD2
1.85E-155	1.648058586	0.882	0.564	5.93E-151	12 DCDC2
0	1.635912285	0.604	0.074	0	12 MIR31HG
5.66E-205	1.630313938	0.584	0.172	1.82E-200	12 IL1R1
1.17E-173	1.62450059	0.505	0.145	3.77E-169	12 GPC4
1.00E-39	1.619913851	0.542	0.38	3.21E-35	12 PTPN1
0	1.601760738	0.537	0.089	0	12 PAG1
0	1.600014538	0.505	0.08	0	12 EDIL3
0	1.599761622	0.491	0.075	0	12 NTM
9.70E-60	1.598397936	0.43	0.206	3.12E-55	12 NAMPT
1.25E-206	1.596577742	0.597	0.173	4.00E-202	12 ROBO1
6.79E-146	1.586168973	0.584	0.213	2.18E-141	12 TMEM178B
6.10E-77	1.580399957	0.757	0.562	1.96E-72	12 VMP1
8.88E-83	1.576108562	0.419	0.162	2.85E-78	12 FAM155A
0	1.570830573	0.563	0.041	0	12 WT1
1.72E-124	1.567411443	0.692	0.361	5.54E-120	12 MYRIP
3.78E-197	1.563168041	0.878	0.5	1.22E-192	12 AUTS2
9.59E-174	1.548512571	0.682	0.248	3.08E-169	12 TNIK
1.41E-283	1.541031972	0.721	0.199	4.53E-279	12 CD200
0	1.527184343	0.488	0.035	0	12 HRH1
0	1.517991225	0.501	0.084	0	12 XYLT1
1.26E-160	1.512824022	0.876	0.545	4.05E-156	12 ARHGAP29
0	1.504231482	0.416	0.035	0	12 GPR176
4.39E-166	1.50165834	0.78	0.369	1.41E-161	12 FRY
1.24E-159	1.492688163	0.676	0.257	3.98E-155	12 PRUNE2
0	1.489534539	0.456	0.069	0	12 LAMA3
0	1.486260553	0.555	0.05	0	12 LINC01197
1.36E-48	1.483947387	0.632	0.406	4.36E-44	12 ERRFI1
1.54E-32	1.443891631	0.367	0.208	4.94E-28	12 ACSM3
1.51E-207	1.440771147	0.481	0.112	4.84E-203	12 APBA1
1.29E-149	1.438064801	0.859	0.522	4.15E-145	12 MAML3

4.31E-84	1.43774321	0.353	0.12	1.38E-79	12 NAV3
6.82E-110	1.43481536	0.78	0.49	2.19E-105	12 PAWR
0	1.433797476	0.702	0.147	0	12 PLCE1
0	1.420146175	0.459	0.028	0	12 NID2
6.33E-101	1.419933331	0.452	0.16	2.03E-96	12 CREB5
1.92E-75	1.418704018	0.518	0.249	6.16E-71	12 ELOVL5
5.33E-123	1.414179271	0.77	0.443	1.71E-118	12 PALLD
4.79E-245	1.401003884	0.787	0.261	1.54E-240	12 AC098650.1
3.53E-117	1.395197145	0.529	0.2	1.13E-112	12 DLGAP1
2.66E-134	1.389443693	0.682	0.289	8.53E-130	12 RAPGEF3
4.13E-31	1.375076604	0.722	0.645	1.33E-26	12 SIK2
2.33E-281	1.34917154	0.554	0.107	7.48E-277	12 ALPK2
0	1.347665737	0.394	0.03	0	12 DPYSL3
6.34E-88	1.340596984	0.463	0.189	2.04E-83	12 SDC2
2.34E-144	1.339074106	0.656	0.282	7.51E-140	12 CASC15
9.39E-256	1.321652061	0.368	0.053	3.02E-251	12 CAVIN2-AS1
7.56E-132	1.314968559	0.514	0.17	2.43E-127	12 FOS
3.03E-108	1.310826485	0.862	0.627	9.74E-104	12 THRB
2.03E-65	1.304770522	0.666	0.466	6.51E-61	12 UTY
1.08E-139	1.296018725	0.495	0.155	3.47E-135	12 SGCD
1.42E-163	1.289255133	0.537	0.164	4.57E-159	12 DTNA
1.19E-78	1.28364205	0.701	0.461	3.82E-74	12 RBBP8
4.78E-162	1.282946944	0.894	0.599	1.54E-157	12 CCDC198
2.81E-154	1.275706901	0.645	0.242	9.01E-150	12 KIF26B
8.11E-75	1.275323158	0.482	0.224	2.61E-70	12 PLOD2
0	1.266323881	0.319	0.029	0	12 F5
2.49E-175	1.264318967	0.652	0.229	7.99E-171	12 EVA1C
1.08E-181	1.263397299	0.617	0.191	3.46E-177	12 UNC5C
3.74E-82	1.261743115	0.709	0.434	1.20E-77	12 SASH1
1.17E-91	1.256912697	0.862	0.66	3.74E-87	12 PAX8-AS1
0	1.256025313	0.367	0.015	0	12 KLRG2
4.31E-65	1.254703188	0.282	0.094	1.38E-60	12 THBS1
1.12E-106	1.252381002	0.496	0.186	3.60E-102	12 ZFP36
5.87E-128	1.237491553	0.701	0.336	1.89E-123	12 ITGA1
7.06E-100	1.237215954	0.77	0.441	2.27E-95	12 GALNT14
1.65E-163	1.223672454	0.74	0.28	5.31E-159	12 UGT2B7
4.81E-105	1.218289684	0.482	0.181	1.55E-100	12 SLC39A14
0	1.21659125	0.403	0.022	0	12 ZNF536
4.28E-106	1.215078623	0.758	0.478	1.37E-101	12 RAI14
4.85E-72	1.211440769	0.799	0.556	1.56E-67	12 P3H2
8.05E-146	1.199244962	0.587	0.213	2.59E-141	12 TLE4
1.06E-257	1.198236495	0.529	0.103	3.40E-253	12 RHEX
1.05E-182	1.191848852	0.876	0.367	3.39E-178	12 BNC2
1.08E-179	1.181596372	0.614	0.204	3.46E-175	12 BCAM
2.72E-273	1.177895025	0.597	0.131	8.75E-269	12 DNMI
7.98E-168	1.166359894	0.495	0.133	2.56E-163	12 PROM1
9.33E-140	1.161613451	0.529	0.166	3.00E-135	12 CDH2
1.69E-88	1.160851743	0.511	0.216	5.41E-84	12 NFKBIZ
8.43E-263	1.158748959	0.394	0.06	2.71E-258	12 MICAL2
1.39E-87	1.15547351	0.63	0.359	4.46E-83	12 RIC8B
9.85E-189	1.143109244	0.553	0.15	3.16E-184	12 KIRREL1

3.78E-196	1.138096125	0.537	0.142	1.21E-191	12 MCTP2
8.96E-103	1.137156138	0.34	0.099	2.88E-98	12 SLC44A5
0	1.13570748	0.518	0.079	0	12 CLIC5
1.22E-135	1.134853843	0.689	0.305	3.91E-131	12 MYOF
6.09E-292	1.133889827	0.354	0.043	1.96E-287	12 IGFBP2
3.36E-73	1.133770641	0.652	0.367	1.08E-68	12 SAMD4A
0	1.132659164	0.412	0.034	0	12 BMP7
2.26E-50	1.130075571	0.321	0.133	7.27E-46	12 LINC01697
5.40E-64	1.127746349	0.728	0.527	1.73E-59	12 HIVEP2
1.41E-50	1.127083272	0.642	0.414	4.54E-46	12 LINC01320
0	1.125357031	0.327	0.019	0	12 VCAN
8.10E-289	1.124859914	0.347	0.042	2.60E-284	12 HSPB8
2.20E-98	1.123560353	0.442	0.165	7.06E-94	12 TSPAN12
1.66E-136	1.12355488	0.619	0.267	5.32E-132	12 PON2
6.44E-46	1.12215818	0.328	0.144	2.07E-41	12 CLSTN2
4.65E-138	1.116886629	0.489	0.147	1.49E-133	12 EGR1
3.92E-68	1.113577779	0.81	0.598	1.26E-63	12 IGFBP7
2.24E-124	1.112112406	0.596	0.223	7.20E-120	12 CLIC4
3.46E-88	1.110225889	0.532	0.236	1.11E-83	12 NPR3
9.16E-273	1.104169387	0.494	0.087	2.94E-268	12 MSRB3
1.67E-74	1.0953825	0.574	0.31	5.37E-70	12 ZFP36L1
0	1.093447884	0.322	0.011	0	12 BTLA
6.64E-102	1.09052466	0.616	0.291	2.13E-97	12 PLEKHH2
6.77E-152	1.090112028	0.662	0.249	2.17E-147	12 NPAS3
7.39E-117	1.086409274	0.757	0.39	2.37E-112	12 STOX2
6.02E-94	1.081162203	0.816	0.54	1.93E-89	12 BCL2
1.14E-23	1.079907073	0.321	0.191	3.66E-19	12 ZNF331
3.52E-16	1.076029526	0.476	0.376	1.13E-11	12 SOD2
0	1.07345303	0.269	0.008	0	12 LINC00924
1.80E-127	1.072346641	0.332	0.078	5.79E-123	12 IGFBP4
9.84E-102	1.069198137	0.653	0.349	3.16E-97	12 PRKCI
1.23E-183	1.066861188	0.325	0.056	3.94E-179	12 ABCG1
3.24E-74	1.066808057	0.344	0.126	1.04E-69	12 LONRF2
1.48E-22	1.062493781	0.311	0.185	4.74E-18	12 HMGCS1
1.68E-116	1.062369903	0.344	0.087	5.39E-112	12 CDH6
2.63E-18	1.062013336	0.473	0.385	8.46E-14	12 DPP6
1.25E-156	1.060388947	0.347	0.074	4.00E-152	12 POU6F2
3.18E-156	1.060273338	0.368	0.083	1.02E-151	12 CFAP54
8.45E-70	1.057593002	0.295	0.098	2.71E-65	12 GLUL
1.03E-274	1.054214164	0.499	0.092	3.30E-270	12 AC092894.1
4.68E-88	1.050895975	0.594	0.294	1.50E-83	12 FOSL2
3.38E-45	1.050373777	0.419	0.218	1.09E-40	12 NR4A1
5.70E-145	1.050082713	0.96	0.809	1.83E-140	12 PARD3B
6.61E-61	1.045283953	0.777	0.568	2.12E-56	12 CNKSR3
3.58E-105	1.044246901	0.386	0.116	1.15E-100	12 TNFAIP8
1.89E-94	1.043587485	0.868	0.638	6.06E-90	12 EPB41L5
7.85E-94	1.032595855	0.741	0.423	2.52E-89	12 COL4A2
4.87E-286	1.02991387	0.351	0.043	1.56E-281	12 PHACTR3
6.57E-92	1.028391068	0.643	0.317	2.11E-87	12 COL4A1
1.75E-78	1.026944474	0.265	0.076	5.63E-74	12 AC020916.1
1.04E-157	1.025162219	0.319	0.062	3.35E-153	12 COL26A1

4.64E-69	1.021924628	0.422	0.182	1.49E-64	12 MB21D2
3.32E-102	1.02051944	0.511	0.194	1.07E-97	12 FIGN
7.36E-233	1.020158952	0.409	0.072	2.36E-228	12 ILDR2
8.39E-111	1.017732677	0.777	0.41	2.70E-106	12 COL4A5
1.50E-89	1.016076253	0.272	0.071	4.83E-85	12 XKR4
4.65E-115	1.012266935	0.351	0.096	1.49E-110	12 MLF1
5.65E-124	1.008573124	0.524	0.179	1.81E-119	12 ABI3BP
3.41E-82	1.006238435	0.636	0.361	1.10E-77	12 FNBP1
1.11E-84	1.005541957	0.649	0.313	3.58E-80	12 NRP1
1.03E-97	1.00493682	0.686	0.363	3.30E-93	12 ARNT2
0	1.000735259	0.34	0.037	0	12 OCA2
7.61E-144	0.999995629	0.504	0.154	2.44E-139	12 RFTN1
1.19E-124	0.992063039	0.475	0.154	3.81E-120	12 IL15
1.39E-202	0.990968724	0.452	0.094	4.48E-198	12 DOCK11
1.34E-81	0.98424277	0.801	0.562	4.30E-77	12 LARGE1
2.79E-115	0.982006071	0.896	0.702	8.97E-111	12 AFDN
9.02E-92	0.978114146	0.426	0.15	2.90E-87	12 HDAC9
2.77E-97	0.968806236	0.607	0.288	8.89E-93	12 TUSC3
6.66E-21	0.96730997	0.394	0.258	2.14E-16	12 NCEH1
1.48E-40	0.958507694	0.652	0.501	4.77E-36	12 RFX3
4.47E-130	0.950350435	0.309	0.067	1.44E-125	12 TNFRSF11B
3.44E-125	0.94849924	0.511	0.178	1.10E-120	12 NEDD9
2.51E-212	0.94844074	0.322	0.048	8.08E-208	12 FHL1
1.91E-23	0.946962225	0.387	0.239	6.14E-19	12 ARHGAP42
2.42E-33	0.9463738	0.623	0.468	7.79E-29	12 CDC42SE2
3.23E-183	0.944807216	0.482	0.114	1.04E-178	12 RBMS3
2.00E-216	0.944180167	0.423	0.079	6.43E-212	12 PVT1
2.58E-104	0.938975071	0.501	0.19	8.29E-100	12 ITGA3
8.37E-65	0.936983471	0.623	0.375	2.69E-60	12 ZNF608
3.35E-143	0.936872181	0.453	0.121	1.08E-138	12 COL8A1
2.77E-49	0.936459452	0.633	0.413	8.89E-45	12 BACH2
6.42E-95	0.936228295	0.348	0.106	2.06E-90	12 ADAMTS3
3.30E-83	0.935674006	0.698	0.396	1.06E-78	12 MAP3K5
5.49E-112	0.93293368	0.399	0.122	1.76E-107	12 BCL6
6.27E-94	0.932626666	0.647	0.323	2.01E-89	12 MET
3.25E-241	0.928881215	0.306	0.038	1.04E-236	12 FHL2
0	0.925622597	0.278	0.004	0	12 AC020912.1
6.57E-199	0.918807325	0.331	0.053	2.11E-194	12 VIM
4.99E-62	0.91864064	0.74	0.519	1.60E-57	12 EFCAB13
3.32E-44	0.916140964	0.433	0.233	1.07E-39	12 RGS12
2.58E-71	0.912075429	0.633	0.373	8.28E-67	12 ATP13A3
0	0.911056994	0.26	0.016	0	12 EDIL3-DT
1.44E-82	0.910694978	0.806	0.51	4.63E-78	12 NFIA
5.17E-44	0.909653088	0.643	0.461	1.66E-39	12 CHD1
0	0.909011505	0.35	0.028	0	12 NPR1
3.10E-85	0.908863245	0.691	0.367	9.95E-81	12 ARHGAP26
5.70E-99	0.905844328	0.576	0.257	1.83E-94	12 HYDIN
6.20E-68	0.9040532	0.413	0.172	1.99E-63	12 AHR
2.72E-92	0.903490734	0.679	0.348	8.74E-88	12 SRGAP1
3.99E-149	0.90132032	0.334	0.07	1.28E-144	12 CYP1B1-AS1
3.89E-74	0.90040944	0.591	0.331	1.25E-69	12 MTMR12

8.54E-37	0.897774421	0.279	0.123	2.74E-32	12 H2AC6
4.17E-82	0.89107892	0.75	0.482	1.34E-77	12 MICAL3
1.62E-119	0.886994541	0.947	0.836	5.20E-115	12 PARD3
6.63E-16	0.886711298	0.512	0.4	2.13E-11	12 ELL2
5.46E-33	0.880424728	0.629	0.484	1.75E-28	12 ESYT2
8.84E-76	0.876836982	0.908	0.679	2.84E-71	12 KAZN
0	0.875968789	0.305	0.029	0	12 TNNT2
3.59E-60	0.8729493	0.527	0.268	1.15E-55	12 NRG1
3.01E-84	0.870686058	0.406	0.146	9.66E-80	12 JUN
4.24E-93	0.870417453	0.325	0.095	1.36E-88	12 SULT1C4
0	0.870259848	0.327	0.004	0	12 AL353740.1
6.57E-87	0.8669839	0.911	0.779	2.11E-82	12 MYO9A
1.64E-62	0.863728537	0.567	0.313	5.25E-58	12 GTDC1
6.13E-79	0.855192806	0.269	0.074	1.97E-74	12 AC113386.1
1.66E-54	0.854211823	0.728	0.514	5.32E-50	12 ADAM10
5.55E-104	0.852638014	0.466	0.157	1.78E-99	12 ZEB2
3.58E-65	0.851279851	0.429	0.197	1.15E-60	12 IFT57
1.02E-148	0.851147062	0.376	0.086	3.28E-144	12 CHN1
8.92E-77	0.851127487	0.786	0.533	2.87E-72	12 PPFIBP1
1.23E-113	0.848990789	0.285	0.064	3.94E-109	12 SNTG2
1.38E-78	0.847979416	0.558	0.276	4.43E-74	12 CLIP4
7.54E-85	0.846619135	0.311	0.092	2.42E-80	12 PDGFD
2.24E-31	0.846376857	0.353	0.193	7.21E-27	12 TSC22D3
6.29E-189	0.843892712	0.309	0.049	2.02E-184	12 NHSL2
9.10E-46	0.842838816	0.387	0.188	2.92E-41	12 PRELID2
8.62E-38	0.842286794	0.701	0.509	2.77E-33	12 SDK1
5.70E-144	0.841805762	0.329	0.069	1.83E-139	12 ZBTB7C
3.85E-77	0.837845218	0.977	0.827	1.24E-72	12 BICC1
5.75E-65	0.832855044	0.278	0.09	1.85E-60	12 ENPP1
1.24E-67	0.830693624	0.501	0.238	3.99E-63	12 JAZF1
2.61E-87	0.83033039	0.337	0.104	8.39E-83	12 GRM8
3.53E-65	0.826947535	0.476	0.234	1.13E-60	12 HNRNPLL
3.03E-105	0.825793784	0.889	0.597	9.72E-101	12 UTRN
2.39E-72	0.824952315	0.812	0.61	7.68E-68	12 FER
5.49E-177	0.824212181	0.306	0.052	1.76E-172	12 IL1RAP
5.20E-44	0.823768386	0.57	0.345	1.67E-39	12 RETREG1
5.11E-152	0.822077964	0.424	0.106	1.64E-147	12 SLC16A1-AS1
5.00E-148	0.821836517	0.348	0.074	1.61E-143	12 NECAB1
1.30E-82	0.819831708	0.863	0.639	4.16E-78	12 TTC28
5.26E-64	0.818091844	0.6	0.338	1.69E-59	12 ARAP2
1.15E-61	0.81672363	0.83	0.673	3.70E-57	12 EXT1
4.86E-60	0.814885214	0.66	0.397	1.56E-55	12 GULP1
2.44E-65	0.811691778	0.837	0.584	7.84E-61	12 PDE7B
4.04E-68	0.806191345	0.548	0.276	1.30E-63	12 PCDHGA1
8.87E-46	0.803493558	0.378	0.179	2.85E-41	12 MAOB
1.34E-52	0.802223948	0.79	0.585	4.31E-48	12 PTPRJ
1.49E-46	0.800317508	0.471	0.25	4.80E-42	12 EYA2
2.82E-48	0.7975741	0.728	0.545	9.05E-44	12 ROCK2
3.78E-66	0.797084046	0.568	0.292	1.21E-61	12 PLCB4
1.16E-72	0.796217218	0.518	0.247	3.73E-68	12 ZNF846
8.17E-54	0.795528224	0.422	0.207	2.62E-49	12 CDS1

1.96E-62	0.795474182	0.95	0.88	6.28E-58	12 WWOX
2.27E-103	0.791041279	0.383	0.117	7.29E-99	12 ACTN1
2.42E-71	0.789854357	0.699	0.423	7.78E-67	12 CEP112
9.90E-58	0.789287372	0.704	0.426	3.18E-53	12 CPM
4.43E-76	0.788862938	0.46	0.201	1.42E-71	12 ARL13B
6.92E-47	0.786001579	0.609	0.389	2.22E-42	12 DIAPH2
1.90E-52	0.785370244	0.344	0.145	6.12E-48	12 TPRG1
3.07E-38	0.779191318	0.482	0.291	9.86E-34	12 YPEL2
6.18E-55	0.778976728	0.571	0.34	1.98E-50	12 SEMA4D
1.34E-37	0.778757008	0.64	0.481	4.30E-33	12 CAST
1.09E-20	0.778240787	0.623	0.491	3.50E-16	12 HIF1A
7.87E-62	0.777924379	0.702	0.472	2.53E-57	12 RAP1B
1.00E-60	0.777923505	0.505	0.263	3.23E-56	12 LONRF1
4.46E-217	0.770934165	0.325	0.048	1.43E-212	12 GUCY1B1
1.34E-30	0.766068983	0.4	0.234	4.30E-26	12 UBC
2.10E-52	0.763468531	0.629	0.421	6.76E-48	12 VPS41
2.17E-54	0.76273113	0.565	0.331	6.98E-50	12 DUSP16
1.08E-43	0.759087716	0.399	0.202	3.46E-39	12 TPK1
3.50E-50	0.757487716	0.419	0.211	1.12E-45	12 DPY19L3
1.29E-124	0.75721258	0.285	0.059	4.14E-120	12 ABCC3
2.44E-93	0.756963128	0.403	0.133	7.84E-89	12 CAMK1D
1.16E-53	0.754025116	0.797	0.616	3.72E-49	12 TBL1XR1
7.65E-55	0.753197941	0.324	0.126	2.46E-50	12 SPSB1
1.21E-179	0.752008718	0.289	0.045	3.89E-175	12 PAK3
3.15E-54	0.751494687	0.614	0.361	1.01E-49	12 DGKH
4.74E-65	0.746483905	0.902	0.778	1.52E-60	12 AOPEP
9.52E-59	0.746020083	0.601	0.357	3.06E-54	12 NOTCH2
9.60E-20	0.744394585	0.491	0.356	3.08E-15	12 NFKB1
8.39E-52	0.74420325	0.445	0.213	2.70E-47	12 ANKRD33B
3.48E-64	0.74292724	0.875	0.736	1.12E-59	12 SPIDR
4.04E-71	0.741681632	0.471	0.208	1.30E-66	12 AP000295.1
6.69E-70	0.7395437	0.463	0.208	2.15E-65	12 HYDIN2
1.44E-25	0.73852147	0.285	0.153	4.62E-21	12 ZFP36L2
1.12E-70	0.737462479	0.351	0.127	3.60E-66	12 FLVCR2
8.43E-35	0.737067012	0.409	0.238	2.71E-30	12 AC090912.1
3.46E-46	0.736503851	0.606	0.4	1.11E-41	12 CAMK2D
2.02E-44	0.734612179	0.63	0.439	6.50E-40	12 IQGAP1
1.72E-106	0.733612619	0.361	0.1	5.51E-102	12 ITIH5
3.83E-44	0.73270924	0.529	0.317	1.23E-39	12 CTIF
2.83E-56	0.732105689	0.381	0.166	9.10E-52	12 LRR1Q1
8.02E-47	0.731981065	0.711	0.51	2.58E-42	12 GMDS
3.69E-34	0.729894644	0.639	0.464	1.19E-29	12 FLNB
2.77E-73	0.727468127	0.354	0.126	8.90E-69	12 ATRNL1
3.70E-50	0.725159145	0.668	0.43	1.19E-45	12 EGFR
7.51E-66	0.721855774	0.732	0.469	2.41E-61	12 FCHSD2
7.04E-17	0.720367608	0.279	0.173	2.26E-12	12 TP53BP2
1.98E-50	0.719996193	0.671	0.471	6.36E-46	12 SLC35F5
5.78E-37	0.717937244	0.658	0.482	1.86E-32	12 TACC2
0	0.71748711	0.263	0.019	0	12 AC022905.1
5.51E-163	0.713948323	0.299	0.05	1.77E-158	12 NPHS1
7.77E-98	0.713088465	0.294	0.072	2.50E-93	12 ATP10A

2.40E-22	0.712298096	0.344	0.205	7.71E-18	12 ROR1
5.17E-136	0.710705529	0.407	0.105	1.66E-131	12 AFF3
1.65E-92	0.708655565	0.332	0.098	5.29E-88	12 RHOB
1.25E-26	0.707759434	0.331	0.187	4.01E-22	12 STAT1
3.15E-81	0.706339945	0.403	0.149	1.01E-76	12 LIMK2
6.39E-53	0.705997516	0.492	0.257	2.05E-48	12 DCBLD2
3.04E-31	0.704980719	0.396	0.219	9.75E-27	12 FGF14
4.87E-133	0.699745745	0.309	0.065	1.56E-128	12 IFITM3
6.07E-50	0.697934126	0.632	0.373	1.95E-45	12 FRMD4B
1.12E-55	0.696414044	0.724	0.464	3.59E-51	12 SSBP2
1.15E-51	0.695701706	0.738	0.531	3.70E-47	12 DPYD
1.92E-82	0.692338434	0.338	0.108	6.17E-78	12 AFAP1
1.28E-26	0.686877183	0.432	0.28	4.12E-22	12 SORT1
7.63E-112	0.686875375	0.439	0.134	2.45E-107	12 EPB41L2
1.68E-52	0.686301663	0.816	0.598	5.38E-48	12 AC012409.2
4.15E-59	0.68550057	0.763	0.518	1.33E-54	12 PAX8
1.61E-30	0.684776671	0.593	0.409	5.16E-26	12 CDK6
7.28E-39	0.684656803	0.645	0.471	2.34E-34	12 ETV6
4.24E-59	0.683924829	0.849	0.683	1.36E-54	12 TRIO
6.41E-52	0.683924795	0.286	0.11	2.06E-47	12 CTSC
1.16E-87	0.683202224	0.376	0.122	3.72E-83	12 MEIS1
3.64E-70	0.679538992	0.414	0.163	1.17E-65	12 ANXA2
8.58E-32	0.676744805	0.653	0.48	2.75E-27	12 FMNL2
3.78E-42	0.674134536	0.553	0.341	1.21E-37	12 PER1
3.29E-72	0.673698214	0.353	0.128	1.06E-67	12 ACLY
6.41E-35	0.672298298	0.63	0.457	2.06E-30	12 LINC00894
5.30E-70	0.671301422	0.845	0.558	1.70E-65	12 DST
7.81E-47	0.669590326	0.64	0.416	2.51E-42	12 GTF2IRD1
2.66E-75	0.66767017	0.376	0.133	8.53E-71	12 NXN
4.24E-46	0.66516414	0.774	0.6	1.36E-41	12 CAMTA1
7.44E-64	0.664124217	0.689	0.386	2.39E-59	12 ZDHHC14
9.34E-11	0.660906341	0.619	0.514	3.00E-06	12 TACC1
9.79E-40	0.660176097	0.725	0.562	3.14E-35	12 PAM
3.94E-61	0.660033105	0.626	0.366	1.27E-56	12 IQCJ-SCHIP1
5.73E-44	0.659445936	0.41	0.206	1.84E-39	12 OSMR
1.27E-34	0.658242186	0.462	0.272	4.09E-30	12 PFKP
9.51E-39	0.657696428	0.337	0.163	3.06E-34	12 DGKD
2.04E-42	0.657390972	0.414	0.212	6.57E-38	12 LAMA5
3.02E-32	0.656439029	0.748	0.586	9.70E-28	12 SPTBN1
2.36E-48	0.654524704	0.302	0.126	7.58E-44	12 AC107021.1
3.59E-150	0.654361866	0.283	0.05	1.15E-145	12 ZNF423
8.61E-77	0.653800679	0.253	0.067	2.77E-72	12 APBB1IP
5.52E-59	0.653720489	0.332	0.126	1.77E-54	12 SLC9A9
2.86E-33	0.65227906	0.653	0.493	9.19E-29	12 HIPK3
3.56E-55	0.652037222	0.292	0.109	1.14E-50	12 AC073569.2
9.19E-71	0.651189969	0.501	0.213	2.95E-66	12 SLCO3A1
4.39E-264	0.644950831	0.276	0.027	1.41E-259	12 WT1-AS
4.09E-42	0.644670816	0.517	0.313	1.31E-37	12 RHEB
5.49E-102	0.643767074	0.344	0.097	1.76E-97	12 SYNJ2
2.72E-68	0.640637803	0.453	0.197	8.73E-64	12 CRMP1
2.21E-44	0.639633936	0.64	0.446	7.08E-40	12 CPSF6

1.65E-142	0.639188089	0.283	0.053	5.29E-138	12 SACS
1.28E-43	0.635760571	0.422	0.218	4.11E-39	12 AL390879.1
4.10E-112	0.635349862	0.252	0.051	1.32E-107	12 PKNOX2
3.71E-36	0.633914573	0.646	0.451	1.19E-31	12 DOCK4
9.12E-30	0.633390293	0.541	0.358	2.93E-25	12 MOB3B
6.07E-28	0.630330525	0.685	0.535	1.95E-23	12 ZHX2
2.48E-33	0.629115308	0.291	0.137	7.97E-29	12 HMGA2
1.07E-78	0.62766475	0.538	0.228	3.43E-74	12 PAPLN
3.64E-205	0.624318155	0.269	0.034	1.17E-200	12 PXDN
3.60E-42	0.62160287	0.39	0.195	1.16E-37	12 AC016705.2
1.44E-45	0.620826115	0.491	0.282	4.62E-41	12 MYEF2
1.16E-24	0.620539063	0.747	0.644	3.74E-20	12 ARIH1
1.06E-134	0.619427219	0.256	0.046	3.42E-130	12 MPP3
9.35E-18	0.618899046	0.378	0.257	3.00E-13	12 CRY1
2.10E-96	0.618567388	0.646	0.296	6.73E-92	12 SRGAP2
9.48E-53	0.61617503	0.436	0.213	3.05E-48	12 PLAGL1
4.17E-45	0.615008922	0.781	0.627	1.34E-40	12 FTO
1.56E-33	0.614000918	0.462	0.274	5.00E-29	12 ANKRD6
8.38E-42	0.613595422	0.554	0.321	2.69E-37	12 LDLRAD4
1.13E-22	0.612714573	0.439	0.293	3.64E-18	12 GALNT10
6.39E-46	0.612644968	0.482	0.249	2.05E-41	12 TGFBR3
3.52E-29	0.612285843	0.58	0.421	1.13E-24	12 ATP2B1
3.06E-23	0.610909305	0.554	0.421	9.84E-19	12 ITM2B
4.85E-46	0.610104473	0.826	0.546	1.56E-41	12 ZBTB16
3.10E-30	0.608553434	0.485	0.305	9.96E-26	12 RRAS2
2.66E-24	0.608223017	0.548	0.408	8.55E-20	12 GPCPD1
1.78E-51	0.60488539	0.942	0.874	5.72E-47	12 LPP
5.68E-24	0.60312452	0.872	0.804	1.83E-19	12 AC016831.6
4.29E-55	0.602430402	0.355	0.143	1.38E-50	12 EPHA7
1.27E-44	0.600106646	0.527	0.31	4.09E-40	12 SLC25A37
6.66E-32	0.599529036	0.652	0.473	2.14E-27	12 ITGAV
1.21E-17	0.597984391	0.565	0.452	3.88E-13	12 AL358113.1
1.17E-64	0.595688799	0.377	0.15	3.75E-60	12 USP31
5.19E-27	0.594189618	0.643	0.485	1.67E-22	12 SLC44A3-AS1
2.58E-51	0.592610112	0.709	0.478	8.27E-47	12 ARHGEF35-AS1
1.21E-36	0.59160763	0.724	0.545	3.88E-32	12 PDLIM5
1.68E-47	0.591309445	0.721	0.498	5.40E-43	12 NBPF14
5.04E-36	0.590904667	0.768	0.602	1.62E-31	12 TBL1X
1.29E-54	0.588994125	0.486	0.247	4.15E-50	12 NBPF15
4.45E-27	0.588953309	0.305	0.159	1.43E-22	12 SPOCK1
4.55E-31	0.587963198	0.563	0.392	1.46E-26	12 ACTR3
7.74E-18	0.587363312	0.468	0.34	2.49E-13	12 PIK3R1
3.23E-54	0.586826939	0.344	0.142	1.04E-49	12 SPATA6L
2.67E-28	0.585526969	0.488	0.318	8.58E-24	12 FGFR2
9.34E-46	0.584755637	0.961	0.892	3.00E-41	12 RORA
9.12E-37	0.583922652	0.81	0.687	2.93E-32	12 NUMB
1.57E-13	0.583900153	0.268	0.17	5.06E-09	12 SHISA9
5.73E-23	0.581738444	0.735	0.551	1.84E-18	12 EFNA5
0.0005296	0.579840774	0.407	0.365	1	12 NTN4
6.07E-31	0.579434286	0.468	0.298	1.95E-26	12 DYNC2LI1
7.82E-61	0.578987898	0.319	0.119	2.51E-56	12 CORO1C

4.14E-72	0.577999119	0.265	0.077	1.33E-67	12 PLA2G4C
9.19E-76	0.57761173	0.56	0.259	2.95E-71	12 SRGAP2B
2.06E-31	0.577083569	0.725	0.604	6.62E-27	12 ZNF148
3.68E-28	0.575855036	0.521	0.357	1.18E-23	12 YBX3
2.24E-10	0.574134338	0.288	0.199	7.20E-06	12 GADD45B
2.92E-38	0.574092225	0.511	0.309	9.38E-34	12 MOK
1.59E-139	0.573216356	0.951	0.767	5.11E-135	12 MAGI2
1.39E-120	0.572988287	0.321	0.073	4.47E-116	12 ABLIM2
1.21E-59	0.571702582	0.407	0.172	3.89E-55	12 ELMO1
2.02E-35	0.571096981	0.551	0.36	6.49E-31	12 SYTL2
3.72E-18	0.571049215	0.531	0.379	1.20E-13	12 PCDH9
4.12E-62	0.570821403	0.469	0.205	1.32E-57	12 IL6R
3.97E-24	0.570202174	0.373	0.228	1.27E-19	12 LNC-LBCS
1.96E-19	0.569126586	0.252	0.138	6.30E-15	12 NFKBIA
1.05E-11	0.568784867	0.383	0.283	3.38E-07	12 AL359232.1
4.19E-33	0.568626024	0.302	0.146	1.35E-28	12 STXPB1
1.12E-74	0.568597805	0.327	0.109	3.61E-70	12 CLDN18
4.84E-27	0.567374494	0.544	0.386	1.55E-22	12 UBAP2
1.78E-49	0.566675497	0.404	0.186	5.73E-45	12 PRKX
5.56E-45	0.56595831	0.719	0.505	1.79E-40	12 UACA
4.58E-32	0.565922151	0.446	0.261	1.47E-27	12 KLF7
5.85E-51	0.564356889	0.256	0.092	1.88E-46	12 TGIF1
9.37E-42	0.564342835	0.554	0.337	3.01E-37	12 MAP4K4
3.66E-33	0.562369173	0.471	0.294	1.18E-28	12 WRN
4.64E-34	0.561810174	0.383	0.211	1.49E-29	12 BLOC1S5-TXND
1.29E-18	0.560605842	0.344	0.218	4.15E-14	12 EIF2AK3
2.09E-33	0.559968784	0.286	0.136	6.70E-29	12 TUB
6.41E-36	0.559799765	0.403	0.215	2.06E-31	12 NLGN4Y
1.11E-33	0.559766663	0.496	0.3	3.56E-29	12 ZNF462
1.37E-39	0.55589848	0.557	0.349	4.41E-35	12 PDE9A
7.17E-28	0.555272403	0.682	0.541	2.30E-23	12 DENND4A
2.18E-70	0.553430287	0.571	0.278	7.01E-66	12 SRGAP2C
8.01E-58	0.552789957	0.915	0.8	2.57E-53	12 MED13L
1.09E-186	0.549246935	0.268	0.037	3.50E-182	12 BMP1
6.15E-45	0.54887808	0.636	0.405	1.98E-40	12 NBP26
3.63E-48	0.54838486	0.445	0.221	1.17E-43	12 AC019257.8
1.04E-39	0.546295958	0.354	0.172	3.35E-35	12 AGRN
8.80E-23	0.546263043	0.852	0.725	2.83E-18	12 GLS
4.22E-20	0.543874024	0.266	0.142	1.36E-15	12 GBA3
5.57E-87	0.543149645	0.271	0.071	1.79E-82	12 AC087477.2
2.27E-41	0.5419359	0.603	0.39	7.28E-37	12 AC074386.1
4.92E-55	0.539744762	0.35	0.138	1.58E-50	12 NSMF
1.89E-40	0.538920899	0.329	0.155	6.08E-36	12 DDX31
3.55E-47	0.538770088	0.332	0.142	1.14E-42	12 ADCY5
6.21E-37	0.537429851	0.475	0.273	1.99E-32	12 EVC
4.26E-31	0.537130232	0.735	0.552	1.37E-26	12 STK33
1.01E-31	0.536233375	0.475	0.3	3.25E-27	12 PPP2CB
1.83E-37	0.5350609	0.345	0.162	5.86E-33	12 AL136234.1
1.48E-25	0.5350524	0.682	0.544	4.75E-21	12 TJP1
8.58E-14	0.533665792	0.473	0.362	2.75E-09	12 LMCD1-AS1
1.55E-18	0.533111922	0.458	0.33	4.98E-14	12 RUSC2

6.78E-27	0.532419679	0.416	0.251	2.18E-22	12 DCDC1
2.50E-33	0.531232669	0.43	0.24	8.03E-29	12 CABLES1
1.89E-27	0.529233551	0.601	0.411	6.06E-23	12 SPATS2L
2.09E-28	0.527588216	0.387	0.213	6.71E-24	12 TENM4
1.91E-31	0.526342195	0.82	0.661	6.14E-27	12 PTPN13
1.11E-36	0.524488615	0.432	0.241	3.57E-32	12 CEP170
5.60E-38	0.521442558	0.718	0.507	1.80E-33	12 ANKRD36C
1.53E-55	0.521200752	0.271	0.093	4.91E-51	12 LINC00475
6.93E-24	0.519975629	0.288	0.149	2.23E-19	12 ETS1
1.64E-40	0.518561604	0.668	0.439	5.26E-36	12 AC105233.4
6.18E-88	0.518459059	0.275	0.07	1.99E-83	12 IL4R
1.14E-25	0.517721376	0.501	0.322	3.66E-21	12 LINC00278
1.73E-33	0.517642341	0.42	0.233	5.56E-29	12 ANKS1B
6.55E-43	0.517270429	0.833	0.631	2.10E-38	12 AKT3
4.34E-40	0.516407694	0.732	0.518	1.39E-35	12 ANKRD36
2.74E-16	0.515161997	0.494	0.385	8.79E-12	12 TMEM165
1.98E-45	0.514773883	0.373	0.175	6.35E-41	12 PLEKHG3
1.12E-27	0.513940643	0.773	0.63	3.60E-23	12 ARHGEF28
3.70E-36	0.512721036	0.62	0.432	1.19E-31	12 LRCH3
4.41E-36	0.512630195	0.314	0.146	1.42E-31	12 RYR3
6.50E-75	0.512582055	0.285	0.082	2.09E-70	12 SULF1
5.86E-21	0.512496222	0.271	0.151	1.88E-16	12 ANOS2P
2.97E-20	0.512323754	0.502	0.369	9.53E-16	12 TANK
2.24E-55	0.511355385	0.318	0.124	7.19E-51	12 STX2
8.87E-21	0.510250588	0.504	0.363	2.85E-16	12 MDM2
7.77E-112	0.509844664	0.604	0.233	2.50E-107	12 ZEB1
7.00E-66	0.508149416	0.301	0.101	2.25E-61	12 PLAAT3
3.43E-65	0.507524265	0.512	0.249	1.10E-60	12 MAGI2-AS3
2.44E-44	0.507427121	0.374	0.174	7.84E-40	12 POU5F1
3.92E-21	0.507029169	0.66	0.538	1.26E-16	12 STAT3
2.25E-70	0.506844786	0.321	0.106	7.24E-66	12 GABBR1
1.26E-27	0.505976432	0.394	0.233	4.06E-23	12 DNAI4
1.59E-19	0.505357847	0.455	0.312	5.12E-15	12 AC087564.1
5.43E-57	0.50523261	0.273	0.092	1.74E-52	12 MAP3K20
2.58E-68	0.504983273	0.991	0.966	8.30E-64	12 ZBTB20
2.62E-56	0.502801739	0.547	0.273	8.40E-52	12 CALD1
8.46E-13	0.502537286	0.591	0.506	2.72E-08	12 ABCD3
3.96E-25	0.50226554	0.616	0.427	1.27E-20	12 NLGN1
7.15E-22	0.501975144	0.324	0.188	2.30E-17	12 ENAH
2.21E-22	0.500915888	0.673	0.525	7.11E-18	12 PTPN14
3.94E-27	0.497961389	0.322	0.173	1.26E-22	12 RASSF7
1.52E-28	0.496544213	0.458	0.294	4.88E-24	12 ERGIC1
2.08E-35	0.496369962	0.652	0.455	6.68E-31	12 NBPF19
0.00012185	0.494820372	0.459	0.413	1	12 AL355499.2
1.43E-32	0.493464707	0.768	0.614	4.58E-28	12 RBMS1
3.11E-31	0.493284911	0.483	0.284	9.99E-27	12 AC007319.1
2.03E-24	0.491401577	0.393	0.244	6.52E-20	12 SKI
5.32E-58	0.486918311	0.342	0.133	1.71E-53	12 CCDC40
3.11E-11	0.484147563	0.252	0.161	9.99E-07	12 TENM2
1.34E-30	0.484143703	0.432	0.258	4.30E-26	12 MLXIP
5.83E-35	0.483455138	0.341	0.165	1.87E-30	12 DLC1

6.12E-38	0.482574003	0.412	0.22	1.97E-33	12 EFHC1
3.53E-24	0.48007608	0.446	0.288	1.13E-19	12 AHNAK
6.19E-31	0.479542773	0.619	0.451	1.99E-26	12 SRSF10
8.70E-90	0.478507774	0.269	0.069	2.79E-85	12 AC022217.3
6.22E-29	0.477044793	0.465	0.283	2.00E-24	12 DIXDC1
8.32E-29	0.47661654	0.412	0.237	2.67E-24	12 AGBL3
3.45E-17	0.476605437	0.583	0.479	1.11E-12	12 PKD2
2.39E-34	0.475313466	0.498	0.304	7.69E-30	12 NBPF9
1.34E-35	0.473471626	0.865	0.728	4.31E-31	12 STAG1
1.80E-20	0.472650558	0.388	0.248	5.79E-16	12 MYLK
1.58E-51	0.471927506	0.35	0.142	5.09E-47	12 KLHL29
3.29E-19	0.469120607	0.482	0.351	1.06E-14	12 FBXL2
2.06E-17	0.466189055	0.325	0.203	6.60E-13	12 RNF144B
5.13E-14	0.464375984	0.801	0.697	1.65E-09	12 ZSWIM6
6.31E-25	0.463794056	0.538	0.381	2.03E-20	12 TMMEM14B
7.09E-37	0.462730896	0.314	0.145	2.28E-32	12 FAM81A
1.02E-30	0.462725858	0.308	0.156	3.29E-26	12 ANXA5
4.95E-19	0.462725376	0.505	0.366	1.59E-14	12 LATS2
7.84E-60	0.462213762	0.581	0.292	2.52E-55	12 PHACTR1
1.78E-27	0.461926534	0.276	0.136	5.73E-23	12 FLNA
3.47E-23	0.461116359	0.758	0.636	1.11E-18	12 TNS3
6.70E-30	0.46091461	0.273	0.13	2.15E-25	12 AC090825.1
1.39E-39	0.46035017	0.285	0.122	4.45E-35	12 DZIP1L
4.99E-26	0.459279576	0.61	0.444	1.60E-21	12 STXBP5
8.13E-37	0.459259358	0.422	0.236	2.61E-32	12 ENO4
9.51E-30	0.458988633	0.269	0.126	3.05E-25	12 LINC01508
6.68E-25	0.4578426	0.332	0.181	2.15E-20	12 AP002518.2
4.48E-16	0.457652723	0.56	0.451	1.44E-11	12 YWHAZ
2.30E-31	0.45720602	0.478	0.288	7.38E-27	12 MALT1
6.41E-60	0.456888711	0.286	0.097	2.06E-55	12 DNAH5
2.77E-31	0.455351383	0.279	0.135	8.91E-27	12 PER2
1.18E-25	0.454291901	0.298	0.155	3.78E-21	12 LPCAT2
1.06E-79	0.454085112	0.777	0.367	3.39E-75	12 LRP2
1.73E-19	0.453820198	0.472	0.339	5.56E-15	12 PARVA
2.39E-24	0.453007778	0.846	0.707	7.68E-20	12 DLG2
1.26E-23	0.452838825	0.391	0.233	4.05E-19	12 NR1H4
8.46E-17	0.45267032	0.378	0.255	2.72E-12	12 MTHFD1L
1.81E-47	0.450343661	0.325	0.133	5.81E-43	12 NCALD
8.40E-45	0.449569498	0.266	0.104	2.70E-40	12 MTSS2
4.15E-34	0.448553461	0.289	0.13	1.33E-29	12 JUNB
1.62E-25	0.447869478	0.298	0.159	5.19E-21	12 CFAP43
2.04E-17	0.447116785	0.414	0.296	6.56E-13	12 BIVM
4.31E-23	0.445853965	0.26	0.134	1.38E-18	12 JUND
3.61E-23	0.444508175	0.636	0.507	1.16E-18	12 PIK3CB
2.85E-11	0.44345973	0.837	0.798	9.16E-07	12 SIK3
1.77E-14	0.443149113	0.363	0.252	5.69E-10	12 MAD1L1
9.30E-37	0.442549802	0.295	0.135	2.99E-32	12 VAC14
3.17E-15	0.442007427	0.25	0.146	1.02E-10	12 TNFSF10
1.38E-22	0.440960786	0.377	0.232	4.42E-18	12 OSMR-AS1
1.74E-26	0.44091425	0.46	0.292	5.58E-22	12 FUT8
9.16E-18	0.440897092	0.538	0.412	2.94E-13	12 NEK11

1.39E-29	0.439446419	0.75	0.593	4.47E-25	12 EML4
2.00E-19	0.43933111	0.417	0.286	6.43E-15	12 USP54
1.87E-22	0.437302989	0.469	0.302	6.02E-18	12 NR3C1
3.36E-21	0.43721731	0.63	0.504	1.08E-16	12 KMT2A
3.74E-22	0.436751988	0.776	0.664	1.20E-17	12 RASA1
2.51E-41	0.436475567	0.318	0.144	8.06E-37	12 CU633906.2
2.37E-17	0.435414106	0.368	0.241	7.60E-13	12 NPC1
3.06E-25	0.434857143	0.377	0.223	9.82E-21	12 NECTIN2
1.46E-30	0.434212	0.39	0.214	4.69E-26	12 SYK
2.31E-12	0.433991308	0.393	0.29	7.41E-08	12 DMD
4.00E-24	0.433802553	0.376	0.211	1.28E-19	12 RMST
3.59E-14	0.431339471	0.378	0.267	1.15E-09	12 RPH3AL
5.11E-18	0.430206799	0.645	0.524	1.64E-13	12 FANCC
4.32E-21	0.429889741	0.81	0.681	1.39E-16	12 PLXDC2
2.15E-29	0.429744936	0.341	0.182	6.90E-25	12 SHROOM2
1.10E-35	0.428875275	0.376	0.184	3.55E-31	12 PCED1B
1.47E-26	0.427798609	0.318	0.165	4.73E-22	12 TPM4
2.66E-17	0.427790839	0.429	0.301	8.54E-13	12 MROH1
1.57E-22	0.427501449	0.335	0.193	5.04E-18	12 RPS6KA5
4.91E-18	0.426238677	0.429	0.291	1.58E-13	12 LINC01090
6.14E-17	0.426100918	0.324	0.205	1.97E-12	12 TNFRSF10B
6.77E-17	0.425091925	0.624	0.514	2.17E-12	12 NEK7
5.98E-17	0.424573325	0.604	0.502	1.92E-12	12 SMAD2
4.02E-38	0.423495756	0.286	0.126	1.29E-33	12 C1RL
8.93E-24	0.423418221	0.406	0.253	2.87E-19	12 INTS3
5.31E-27	0.421971732	0.427	0.256	1.71E-22	12 TRPC1
1.99E-45	0.421963345	0.364	0.16	6.38E-41	12 SRGAP2D
3.96E-23	0.421668063	0.665	0.53	1.27E-18	12 PTBP2
1.09E-24	0.421111698	0.404	0.251	3.51E-20	12 PARP8
5.23E-19	0.420557039	0.465	0.325	1.68E-14	12 RAD23B
2.68E-21	0.41911952	0.471	0.301	8.62E-17	12 ALCAM
1.50E-16	0.418667899	0.463	0.34	4.81E-12	12 OTUD7B
1.13E-21	0.418506205	0.481	0.337	3.64E-17	12 NAP1L1
3.78E-18	0.418362836	0.299	0.18	1.21E-13	12 SPATA17
8.06E-26	0.418332092	0.591	0.412	2.59E-21	12 CTNNB1
4.96E-23	0.417459563	0.58	0.425	1.59E-18	12 TVP23C-CDRT4
9.11E-20	0.417024109	0.295	0.17	2.93E-15	12 AP1S3
1.85E-41	0.415785677	0.289	0.122	5.94E-37	12 PHLDB1
1.17E-25	0.41417118	0.806	0.693	3.75E-21	12 AKAP13
9.18E-15	0.414053297	0.459	0.343	2.95E-10	12 PPP4R1
7.77E-16	0.413702424	0.432	0.304	2.50E-11	12 SFMBT2
1.91E-13	0.413520886	0.414	0.302	6.13E-09	12 ANKH
1.01E-23	0.413405445	0.673	0.52	3.24E-19	12 ZNF83
1.58E-11	0.410683941	0.282	0.191	5.08E-07	12 AP000787.1
1.61E-14	0.408303898	0.679	0.578	5.16E-10	12 SUPT3H
2.89E-18	0.40743716	0.384	0.255	9.27E-14	12 PPP2R1B
4.59E-26	0.407149324	0.665	0.476	1.48E-21	12 MYO1D
4.07E-24	0.406949952	0.788	0.656	1.31E-19	12 HIPK2
3.24E-15	0.40694192	0.535	0.429	1.04E-10	12 TTLL5
1.29E-31	0.406275002	0.705	0.546	4.13E-27	12 PDE3A
1.81E-16	0.405219215	0.519	0.395	5.81E-12	12 HSPA12A

1.94E-16	0.404723918	0.512	0.39	6.24E-12	12 PARD6B
6.01E-20	0.404458756	0.865	0.771	1.93E-15	12 FARP1
1.26E-11	0.403573691	0.557	0.459	4.05E-07	12 JAK1
2.32E-09	0.403003151	0.285	0.208	7.46E-05	12 REL
1.02E-20	0.399318805	0.456	0.314	3.27E-16	12 STXBP3
7.33E-16	0.398564357	0.306	0.195	2.35E-11	12 ANKLE2
6.03E-19	0.398365826	0.57	0.426	1.94E-14	12 CC2D2A
4.51E-23	0.397409472	0.656	0.515	1.45E-18	12 HNRNPU
5.97E-26	0.397208262	0.54	0.361	1.92E-21	12 ENPP7P6
1.55E-16	0.396857938	0.479	0.357	4.97E-12	12 NUP153
3.60E-18	0.396846382	0.479	0.35	1.16E-13	12 SNX25
3.64E-26	0.39678901	0.591	0.409	1.17E-21	12 SPTAN1
1.91E-15	0.394544577	0.258	0.157	6.14E-11	12 HIPK1
2.38E-11	0.392695905	0.612	0.52	7.64E-07	12 FBXW7
2.36E-08	0.392617972	0.406	0.327	0.000758681	12 MEGF9
1.76E-08	0.390708271	0.671	0.585	0.000565125	12 WWC1
6.57E-10	0.390043319	0.576	0.49	2.11E-05	12 SLC20A2
1.36E-16	0.388248724	0.332	0.206	4.36E-12	12 MAOA
7.34E-23	0.388113146	0.321	0.182	2.36E-18	12 N4BP2L1
1.65E-27	0.387976169	0.915	0.834	5.31E-23	12 MBD5
2.69E-29	0.387040782	0.275	0.132	8.63E-25	12 RECK
7.77E-23	0.386325378	0.518	0.365	2.50E-18	12 ENSA
3.25E-15	0.386321287	0.292	0.181	1.04E-10	12 C21orf62-AS1
4.74E-16	0.386077794	0.761	0.674	1.52E-11	12 DYRK1A
7.80E-16	0.384764992	0.515	0.392	2.50E-11	12 AL451062.2
1.29E-11	0.384721079	0.446	0.35	4.14E-07	12 SUSD6
5.06E-19	0.383965106	0.489	0.342	1.63E-14	12 USP9Y
6.98E-12	0.383907627	0.763	0.675	2.24E-07	12 SHROOM3
2.97E-19	0.382817488	0.305	0.183	9.55E-15	12 RHOQ
9.90E-18	0.381755753	0.445	0.315	3.18E-13	12 KHDRBS1
4.14E-20	0.380936014	0.475	0.326	1.33E-15	12 NR2F2-AS1
1.29E-18	0.380796218	0.633	0.505	4.16E-14	12 TPT1-AS1
1.79E-12	0.38050234	0.563	0.449	5.75E-08	12 PLEKHA1
2.68E-20	0.378915428	0.83	0.723	8.60E-16	12 NF1
1.36E-08	0.378805852	0.381	0.293	0.000436281	12 PBX3
6.21E-19	0.378608591	0.363	0.236	1.99E-14	12 TMEM67
1.36E-17	0.377217884	0.555	0.422	4.37E-13	12 IL6ST
1.36E-14	0.37714366	0.409	0.294	4.35E-10	12 DLGAP4
4.86E-12	0.376842014	0.401	0.291	1.56E-07	12 CDH1
7.93E-19	0.376692866	0.424	0.293	2.55E-14	12 MED15
1.84E-28	0.375567591	0.269	0.13	5.90E-24	12 DDX3Y
3.82E-25	0.375567345	0.289	0.152	1.23E-20	12 KATNAL1
6.70E-20	0.375021311	0.363	0.218	2.15E-15	12 GNAI1
1.30E-24	0.374236461	0.335	0.189	4.17E-20	12 AC090360.1
5.60E-22	0.374165038	0.751	0.62	1.80E-17	12 AC058822.1
2.37E-09	0.373661361	0.472	0.389	7.62E-05	12 AL589935.1
6.96E-27	0.371933702	0.839	0.738	2.24E-22	12 PICALM
1.26E-13	0.368342047	0.413	0.3	4.06E-09	12 MAILR
2.44E-15	0.36817634	0.706	0.588	7.85E-11	12 OSBPL9
7.89E-15	0.367607477	0.338	0.227	2.53E-10	12 RNF145
1.85E-12	0.367304554	0.525	0.409	5.95E-08	12 TTTY14

1.22E-21	0.366935743	0.358	0.209	3.93E-17	12 TLE1
7.04E-21	0.366774324	0.332	0.196	2.26E-16	12 ICAIL
8.08E-11	0.366708664	0.394	0.287	2.60E-06	12 SEMA6A
3.07E-14	0.365448652	0.294	0.187	9.86E-10	12 AC090517.4
8.23E-07	0.365023405	0.527	0.463	0.026430462	12 EFR3A
9.35E-22	0.363161642	0.666	0.525	3.00E-17	12 GOLGA8B
3.34E-06	0.360825253	0.331	0.27	0.107254752	12 ENOX2
1.54E-16	0.360350052	0.494	0.373	4.95E-12	12 DHX9
9.22E-35	0.359123507	0.784	0.585	2.96E-30	12 AC068587.4
1.62E-21	0.357885927	0.266	0.141	5.22E-17	12 ANXA3
3.72E-29	0.35704731	0.308	0.157	1.20E-24	12 TAPBP
2.97E-09	0.357027679	0.584	0.496	9.54E-05	12 MLLT3
1.64E-08	0.357017374	0.447	0.374	0.000528304	12 HIVEP1
1.87E-23	0.356654406	0.315	0.175	6.01E-19	12 ADARB1
4.47E-16	0.355881527	0.452	0.291	1.43E-11	12 MIR100HG
1.00E-17	0.355412703	0.463	0.327	3.22E-13	12 PTPN21
3.38E-12	0.353964893	0.722	0.642	1.08E-07	12 CSNK1A1
1.34E-15	0.353605694	0.373	0.249	4.31E-11	12 SKIL
9.64E-22	0.353268345	0.872	0.789	3.10E-17	12 PTK2
2.01E-18	0.351918712	0.278	0.158	6.45E-14	12 TMEM241
7.38E-21	0.351485972	0.902	0.798	2.37E-16	12 SOX6
7.18E-16	0.351050024	0.311	0.2	2.31E-11	12 DNAJB4
8.68E-10	0.350953069	0.486	0.398	2.79E-05	12 CMSS1
1.33E-14	0.350760235	0.272	0.171	4.26E-10	12 SLC7A6
6.34E-18	0.350379121	0.253	0.141	2.04E-13	12 SLC41A2
3.41E-21	0.350348888	0.335	0.196	1.10E-16	12 LRIG3
2.16E-24	0.350334433	0.401	0.239	6.95E-20	12 AC092902.4
5.99E-20	0.350270328	0.56	0.391	1.92E-15	12 PDGFC
9.34E-29	0.350227376	0.666	0.46	3.00E-24	12 ANKRD36B
8.44E-13	0.34995729	0.314	0.214	2.71E-08	12 WDR35
7.60E-20	0.349233729	0.787	0.679	2.44E-15	12 EIF4G3
9.17E-10	0.34891176	0.292	0.209	2.95E-05	12 SOCS5
1.00E-08	0.348868651	0.554	0.472	0.000321382	12 COBL
6.84E-13	0.348170025	0.383	0.28	2.20E-08	12 PRKD3
1.03E-19	0.348034009	0.435	0.289	3.30E-15	12 PRMT2
5.89E-16	0.346530062	0.522	0.393	1.89E-11	12 CAMSAP2
3.46E-12	0.345729664	0.521	0.415	1.11E-07	12 DNAH7
2.79E-17	0.345326249	0.645	0.507	8.97E-13	12 PPP1CB
8.17E-25	0.34471287	0.432	0.266	2.62E-20	12 NBPF10
8.32E-07	0.344503525	0.36	0.293	0.026713743	12 LAMC1
1.56E-22	0.344264016	0.659	0.507	5.02E-18	12 ARGLU1
6.84E-13	0.343871357	0.412	0.305	2.20E-08	12 CFAP69
9.73E-12	0.343849421	0.413	0.307	3.13E-07	12 DENND5A
1.12E-12	0.343321908	0.361	0.257	3.59E-08	12 AC073283.3
2.37E-21	0.342033711	0.337	0.201	7.62E-17	12 LBR
9.37E-09	0.341695159	0.381	0.298	0.000300896	12 PRIM2
7.21E-283	0.341647956	0.594	0.111	2.32E-278	12 MEIS2
4.53E-22	0.340724119	0.283	0.152	1.45E-17	12 SNX8
4.52E-13	0.340621704	0.355	0.252	1.45E-08	12 SGCE
1.21E-09	0.339284707	0.74	0.682	3.88E-05	12 HNRNPC
5.42E-13	0.338969075	0.717	0.623	1.74E-08	12 PPP1R9A

2.49E-08	0.338720084	0.38	0.303	0.000799803	12 TRAF3IP2-AS1
2.44E-19	0.337183083	0.367	0.226	7.84E-15	12 TNFRSF19
2.76E-10	0.334146229	0.557	0.469	8.85E-06	12 ZMYND8
5.31E-14	0.334102842	0.449	0.334	1.70E-09	12 PAXBP1
2.05E-15	0.334031871	0.311	0.2	6.59E-11	12 TRAF3IP1
1.51E-14	0.33283544	0.548	0.429	4.84E-10	12 MCPH1
3.29E-08	0.331707341	0.463	0.384	0.001055499	12 PDZD8
8.99E-14	0.331584846	0.406	0.286	2.89E-09	12 GSAP
6.19E-16	0.331357052	0.376	0.253	1.99E-11	12 SHTN1
3.91E-14	0.331041378	0.482	0.356	1.26E-09	12 SPTLC3
5.88E-13	0.33077759	0.553	0.448	1.89E-08	12 AGFG1
3.92E-15	0.330571189	0.724	0.616	1.26E-10	12 SPAG9
3.55E-09	0.325972371	0.612	0.536	0.00011408	12 MRPL33
2.32E-12	0.324575774	0.406	0.302	7.46E-08	12 DAP
2.19E-20	0.323966874	0.56	0.419	7.03E-16	12 ASAP1
2.64E-14	0.323187435	0.553	0.441	8.49E-10	12 ABI2
2.58E-09	0.322385119	0.4	0.305	8.30E-05	12 ABCB1
5.92E-09	0.322197835	0.724	0.661	0.000189987	12 ZCCHC7
2.72E-15	0.321718233	0.38	0.256	8.73E-11	12 C11orf54
1.41E-10	0.321708591	0.463	0.367	4.51E-06	12 RIF1
2.03E-10	0.320263607	0.463	0.358	6.52E-06	12 TTC39B
1.29E-08	0.319678803	0.603	0.533	0.00041271	12 VGLL4
4.44E-08	0.319252499	0.668	0.621	0.001424718	12 PDE10A
6.28E-14	0.318868241	0.473	0.361	2.02E-09	12 IFT43
5.64E-09	0.318687285	0.424	0.34	0.000181067	12 SPTLC2
1.08E-07	0.316988485	0.495	0.425	0.003479377	12 SPATA5
1.29E-11	0.316857751	0.469	0.367	4.15E-07	12 GOLPH3
7.92E-14	0.316730453	0.322	0.216	2.54E-09	12 LRRC6
4.98E-11	0.316536117	0.404	0.311	1.60E-06	12 CAPZA2
3.79E-15	0.316319019	0.373	0.251	1.22E-10	12 ATP9A
3.83E-09	0.316226848	0.295	0.217	0.000122895	12 AC005520.1
1.16E-13	0.314683063	0.282	0.175	3.71E-09	12 LTBP3
1.02E-12	0.313396755	0.404	0.296	3.27E-08	12 OBSCN
1.34E-15	0.312239516	0.298	0.187	4.31E-11	12 NPHP1
1.51E-11	0.310596062	0.468	0.367	4.86E-07	12 PITPNB
1.21E-06	0.310455693	0.633	0.556	0.038879366	12 PPP3CA
8.67E-13	0.309713351	0.279	0.181	2.79E-08	12 PARP11
1.54E-13	0.308830056	0.705	0.594	4.93E-09	12 WWC2
2.10E-11	0.308329188	0.294	0.206	6.73E-07	12 TBC1D22B
6.19E-20	0.308136278	0.304	0.169	1.99E-15	12 COL4A6
1.14E-11	0.308083815	0.383	0.282	3.67E-07	12 HOOK1
1.39E-44	0.30744637	0.626	0.342	4.48E-40	12 BMPR1B
2.42E-08	0.307164468	0.311	0.23	0.000777244	12 CNIH3
6.99E-15	0.30685051	0.424	0.304	2.25E-10	12 LENG8
4.80E-17	0.306713354	0.283	0.171	1.54E-12	12 ZNF706
3.42E-13	0.306624805	0.571	0.466	1.10E-08	12 SEPTIN2
2.65E-17	0.306186521	0.388	0.257	8.50E-13	12 LINC02614
1.61E-16	0.305367417	0.55	0.417	5.17E-12	12 RASA2
9.47E-21	0.305148053	0.357	0.217	3.04E-16	12 NBPF20
6.54E-15	0.30514024	0.669	0.562	2.10E-10	12 UVRAG
1.46E-08	0.305044155	0.266	0.187	0.000470248	12 LEPR

3.98E-14	0.304826882	0.692	0.575	1.28E-09	12 AFF4
2.36E-11	0.304816206	0.599	0.496	7.58E-07	12 CCDC18-AS1
7.27E-13	0.303799353	0.345	0.232	2.34E-08	12 TBC1D16
2.53E-12	0.302914752	0.551	0.446	8.14E-08	12 UBAP1
0.0002617	0.302217163	0.443	0.401	1	12 PPM1H
1.54E-13	0.302145129	0.735	0.632	4.94E-09	12 POGZ
8.46E-14	0.301076507	0.298	0.194	2.72E-09	12 SLC37A3
9.35E-18	0.30067833	0.256	0.144	3.00E-13	12 HDAC7
1.57E-06	0.300334406	0.471	0.41	0.05055346	12 PPM1B
5.18E-10	0.300329151	0.649	0.57	1.66E-05	12 UBE2D3
1.87E-08	0.300093643	0.596	0.528	0.000599897	12 AF117829.1
9.54E-08	0.300032449	0.348	0.268	0.003064272	12 TBC1D12
1.91E-07	0.299958727	0.433	0.355	0.006120445	12 STON2
5.27E-12	0.29991828	0.391	0.285	1.69E-07	12 ZNF800
3.11E-11	0.299909652	0.41	0.31	9.98E-07	12 RAB21
2.96E-14	0.299664204	0.59	0.472	9.49E-10	12 DMTF1
1.31E-13	0.299352133	0.545	0.436	4.20E-09	12 GOLGA8A
2.63E-18	0.299173439	0.268	0.154	8.46E-14	12 IFNGR1
3.76E-15	0.298087844	0.721	0.619	1.21E-10	12 WAC
1.58E-13	0.295315025	0.275	0.174	5.06E-09	12 TEC
0.0003567	0.29496281	0.253	0.207	1	12 CAB39L
4.82E-14	0.294833167	0.529	0.402	1.55E-09	12 NBPF12
4.27E-09	0.292764834	0.283	0.204	0.000137064	12 EIF2AK4
1.89E-09	0.292574101	0.492	0.396	6.08E-05	12 PCNX2
7.70E-12	0.291937881	0.463	0.357	2.47E-07	12 TEX9
1.94E-08	0.291925982	0.324	0.245	0.000623901	12 PTPDC1
2.50E-15	0.291365772	0.269	0.166	8.02E-11	12 EIF3M
7.72E-06	0.290768398	0.445	0.381	0.247966023	12 MYO5B
2.67E-14	0.290703377	0.635	0.517	8.57E-10	12 CCNL1
1.86E-20	0.290376511	0.377	0.227	5.98E-16	12 ZBTB46
9.97E-09	0.289696002	0.304	0.222	0.00032006	12 DNAH6
2.55E-11	0.288664646	0.289	0.191	8.19E-07	12 PNPLA7
7.18E-13	0.288466256	0.334	0.227	2.31E-08	12 RNF217
1.33E-11	0.288417167	0.58	0.473	4.27E-07	12 FAM13B
5.81E-12	0.287055873	0.591	0.484	1.86E-07	12 YWHAE
8.83E-09	0.286937205	0.478	0.388	0.000283594	12 EFCAB2
6.67E-11	0.28690982	0.41	0.313	2.14E-06	12 POLR2B
1.94E-07	0.286842733	0.591	0.527	0.006246024	12 LIFR
1.37E-11	0.285917419	0.456	0.35	4.40E-07	12 GABPB1-AS1
1.41E-11	0.285591082	0.59	0.492	4.54E-07	12 ATXN10
9.45E-09	0.285497231	0.528	0.44	0.000303403	12 SEPTIN11
1.60E-09	0.285348824	0.312	0.222	5.12E-05	12 TXNRD1
1.12E-14	0.284520924	0.891	0.813	3.59E-10	12 MAPK10
8.37E-16	0.284156428	0.276	0.164	2.69E-11	12 SH3KBP1
1.41E-06	0.283379968	0.311	0.241	0.045271618	12 ADGRV1
9.60E-10	0.28325378	0.601	0.507	3.08E-05	12 EPC1
3.10E-12	0.283041656	0.296	0.196	9.94E-08	12 DEK
3.51E-19	0.281744117	0.957	0.918	1.13E-14	12 FTX
2.04E-13	0.281504076	0.272	0.172	6.55E-09	12 SF11
2.06E-11	0.281217903	0.39	0.291	6.63E-07	12 ARNT
2.15E-08	0.281181464	0.458	0.376	0.000689151	12 SEC23A

1.72E-05	0.281116958	0.538	0.482	0.552849135	12 RORA-AS1
4.11E-09	0.280143896	0.319	0.232	0.000132039	12 CDRT4
8.88E-10	0.280081822	0.565	0.464	2.85E-05	12 MCU
9.35E-09	0.279685602	0.332	0.25	0.000300288	12 SIMC1
4.05E-14	0.27949529	0.42	0.292	1.30E-09	12 CCND3
8.80E-06	0.279035483	0.327	0.267	0.282664109	12 LEPROT
6.51E-07	0.278403208	0.327	0.257	0.020896578	12 ERI2
1.70E-11	0.278002651	0.388	0.291	5.46E-07	12 KATNIP
3.52E-12	0.277193692	0.675	0.572	1.13E-07	12 LUC7L2
1.86E-11	0.276790332	0.662	0.568	5.96E-07	12 UGGT2
7.34E-12	0.276291397	0.471	0.365	2.36E-07	12 HGSNAT
4.45E-14	0.276098329	0.25	0.151	1.43E-09	12 AMOTL1
7.48E-13	0.275369099	0.443	0.32	2.40E-08	12 ALG13
6.48E-12	0.27376372	0.606	0.493	2.08E-07	12 GNB1
1.73E-12	0.273578927	0.804	0.713	5.56E-08	12 CDKAL1
1.97E-10	0.273561686	0.422	0.32	6.31E-06	12 PARP14
3.93E-24	0.272667309	0.328	0.177	1.26E-19	12 ARHGAP28
1.27E-09	0.271396182	0.465	0.365	4.08E-05	12 CAPN2
8.04E-05	0.271009491	0.414	0.354	1	12 AASS
2.09E-17	0.269941146	0.321	0.195	6.71E-13	12 PDCD4
1.00E-08	0.269087876	0.492	0.408	0.000322672	12 MIPOL1
7.81E-10	0.26860836	0.373	0.272	2.51E-05	12 MSN
4.54E-08	0.268580421	0.502	0.425	0.001457224	12 DAAM1
2.37E-09	0.268080056	0.704	0.639	7.61E-05	12 GPBP1
2.61E-07	0.267490937	0.499	0.424	0.008386863	12 MAP3K1
3.73E-15	0.267167379	0.927	0.793	1.20E-10	12 MAML2
3.23E-13	0.267054045	0.675	0.569	1.04E-08	12 TAF1D
1.74E-10	0.266459871	0.518	0.415	5.57E-06	12 HNRNPD
1.88E-05	0.264957701	0.341	0.276	0.604081771	12 CDKL5
2.24E-08	0.264588346	0.4	0.32	0.000719283	12 CEP83
6.53E-12	0.264470064	0.393	0.294	2.10E-07	12 MORF4L1
1.10E-09	0.264081663	0.397	0.306	3.55E-05	12 LEMD3
2.19E-24	0.263997988	0.919	0.782	7.03E-20	12 GLIS3
1.14E-09	0.263642942	0.315	0.225	3.67E-05	12 FAM228B
0.00046768	0.263393515	0.296	0.243	1	12 DIRC3
0.00031848	0.262836806	0.578	0.542	1	12 LRRFIP2
4.46E-06	0.262818881	0.643	0.582	0.143104293	12 GCC2
2.81E-08	0.262293517	0.374	0.293	0.0009035	12 NUP58
5.34E-12	0.261311504	0.437	0.33	1.72E-07	12 NSD2
1.60E-11	0.261138193	0.432	0.325	5.13E-07	12 PTPN12
2.60E-09	0.260970634	0.407	0.318	8.36E-05	12 TTBK2
2.85E-07	0.260911732	0.696	0.619	0.009155521	12 DNAH14
2.72E-08	0.26078515	0.414	0.326	0.000873069	12 HECTD2
2.70E-09	0.259658097	0.41	0.322	8.66E-05	12 CCNI
1.54E-07	0.258861609	0.278	0.203	0.004932692	12 PLCH1
5.34E-07	0.258676903	0.331	0.255	0.017135096	12 WDR44
4.20E-05	0.257763033	0.381	0.324	1	12 MIPEP
3.79E-12	0.25706421	0.286	0.191	1.22E-07	12 RABL2A
7.78E-05	0.256943979	0.548	0.504	1	12 PHF21A
5.20E-12	0.256924548	0.563	0.454	1.67E-07	12 RNF216
3.14E-10	0.256918495	0.363	0.268	1.01E-05	12 PPP1R10

2.37E-08	0.255043372	0.719	0.644	0.000759695	12 RAPGEF2
1.84E-07	0.254212373	0.43	0.354	0.005911714	12 DCUN1D4
9.79E-09	0.253935206	0.6	0.52	0.000314514	12 CSPP1
2.87E-10	0.253422272	0.271	0.183	9.22E-06	12 CYLD
0.00012475	0.253422099	0.599	0.531	1	12 NCKAP5
2.43E-07	0.253003066	0.783	0.715	0.007799282	12 BRAF
1.17E-13	0.252987346	0.25	0.15	3.76E-09	12 FGFR1
2.16E-10	0.252639253	0.763	0.688	6.92E-06	12 RBM39
3.15E-10	0.252179369	0.741	0.676	1.01E-05	12 DLG1
9.32E-07	0.25208271	0.714	0.652	0.029940497	12 CTNNA1
8.02E-12	0.251903981	0.544	0.426	2.57E-07	12 SKAP2
1.48E-08	0.251513012	0.59	0.51	0.000474425	12 RB1
5.63E-12	0.251490372	0.292	0.193	1.81E-07	12 CCNYL1
4.35E-05	0.251250727	0.66	0.615	1	12 SIPA1L1
6.94E-14	0.250265295	0.791	0.693	2.23E-09	12 HNRNPA2B1
0.00013779	0.250136227	0.471	0.418	1	12 RNF180
0	6.21191322	0.99	0.077	0	13 PTPRQ
0	6.138297663	0.994	0.06	0	13 PTPRO
0	5.515314387	0.997	0.155	0	13 PLA2R1
0	5.46281112	0.998	0.766	0	13 MAGI2
0	4.97081132	0.989	0.15	0	13 ST6GALNAC3
0	4.890437728	0.977	0.045	0	13 NTNG1
0	4.462552344	0.992	0.067	0	13 CLIC5
0	4.072465239	0.992	0.24	0	13 NPAS3
0	3.822874824	0.942	0.022	0	13 NPHS2
0	3.791062372	0.945	0.046	0	13 FMN2
0	3.776426828	0.981	0.141	0	13 PLCE1
0	3.775390488	0.815	0.079	0	13 AC109466.1
0	3.653924396	0.982	0.37	0	13 DPP6
0	3.637490211	0.925	0.036	0	13 ADAMTS19
0	3.617631248	0.968	0.052	0	13 ATP10A
0	3.61495332	0.948	0.357	0	13 IQCJ-SCHIP1
0	3.596904101	0.981	0.446	0	13 DACH1
0	3.579403102	0.972	0.236	0	13 MAGI2-AS3
0	3.507219207	0.976	0.288	0	13 SRGAP2
0	3.444260961	0.966	0.267	0	13 SRGAP2C
0	3.388632442	0.977	0.031	0	13 NPHS1
0	3.383638186	0.929	0.039	0	13 TARID
0	3.30652364	0.969	0.248	0	13 SRGAP2B
0	3.278753277	0.977	0.257	0	13 SEMA5A
0	3.259760336	0.922	0.066	0	13 ALS2CL
0	3.255885178	0.943	0.265	0	13 CDC14A
0	3.151852927	0.695	0.015	0	13 ZNF804A
0	3.135807701	0.922	0.141	0	13 SPOCK1
0	3.099943523	0.921	0.126	0	13 KLHL29
0	3.05737597	0.843	0.005	0	13 AC092813.2
0	3.041750004	0.95	0.049	0	13 NFASC
0	2.973272414	0.937	0.159	0	13 ARHGAP28
0	2.948821778	0.882	0.018	0	13 CR1
0	2.937998767	0.901	0.144	0	13 ZDHHC6
0	2.927677177	0.938	0.098	0	13 PODXL

0	2.922689429	0.927	0.128	0	13 RYR3
0	2.918014207	0.982	0.562	0	13 NEBL
0	2.880352899	0.875	0.115	0	13 SPRY4-AS1
0	2.864207747	0.956	0.567	0	13 CCDC91
0	2.864124894	0.895	0.079	0	13 CCBE1
0	2.838799305	0.979	0.571	0	13 AL359736.1
0	2.811377387	0.83	0.029	0	13 FGF1
0	2.810058134	0.961	0.321	0	13 ST3GAL6
0	2.802040295	0.943	0.236	0	13 TGFBR3
0	2.799385711	0.851	0.255	0	13 INTS12
0	2.775063651	0.783	0.046	0	13 DACH2
0	2.7676641	0.969	0.363	0	13 IQGAP2
0	2.75573671	0.947	0.294	0	13 DOCK5
0	2.748858345	0.903	0.033	0	13 WT1
0	2.716413288	0.959	0.374	0	13 RERG
0	2.704660761	0.971	0.675	0	13 VTI1A
0	2.655587242	0.896	0.142	0	13 TENM2
0	2.65184063	0.922	0.294	0	13 NPNT
0	2.643809528	0.961	0.281	0	13 VEGFA
0	2.642041674	0.914	0.056	0	13 ABLIM2
0	2.601840106	0.909	0.087	0	13 FYN
0	2.594271403	0.825	0.072	0	13 ARHGEF26
0	2.556755409	0.935	0.354	0	13 MGAT5
0	2.556320972	0.977	0.561	0	13 CBLB
0	2.538903235	0.943	0.341	0	13 SRGAP1
0	2.517840028	0.972	0.363	0	13 PTPRD
0	2.509010833	0.953	0.365	0	13 FRY
0	2.504466271	0.992	0.55	0	13 COL4A3
0	2.498476924	0.629	0.045	0	13 AC008415.1
0	2.441804739	0.992	0.809	0	13 PARD3B
0	2.410523114	0.981	0.302	0	13 MME
0	2.407344422	0.831	0.126	0	13 SHISA6
0	2.392077603	0.885	0.264	0	13 CERS6
0	2.371428079	0.888	0.145	0	13 SRGAP2D
1.50E-236	2.331105704	0.684	0.206	4.81E-232	13 SOX2-OT
0	2.297624585	0.969	0.536	0	13 TJP1
0	2.247465483	0.674	0.044	0	13 DYNC111
0	2.229452901	0.867	0.185	0	13 UNC5C
0	2.221709943	0.789	0.015	0	13 PCOLCE2
0	2.194494419	0.969	0.557	0	13 LARGE1
0	2.175454476	0.635	0.091	0	13 LINC02006
0	2.155783179	0.87	0.263	0	13 EXPH5
0	2.12726592	0.708	0.015	0	13 WDR49
0	2.081773302	0.799	0.04	0	13 LRRC2
0	2.070515354	0.783	0.035	0	13 PTGDS
0	2.060899061	0.728	0.016	0	13 LINC02798
0	2.059656132	0.828	0.163	0	13 TENM3
0	2.048190402	0.867	0.142	0	13 KIRREL1
0	2.035340436	0.937	0.281	0	13 ENPEP
0	2.032786761	0.859	0.15	0	13 EYA4
0	2.020460737	0.611	0.044	0	13 AC026316.4

0	2.020204785	0.797	0.062	0	13 NECAB1
0	2.014049582	0.825	0.067	0	13 SULF1
0	1.99173324	0.84	0.167	0	13 FBXL7
0	1.980066798	0.794	0.042	0	13 WIPF3
0	1.968390414	0.799	0.056	0	13 ZBTB7C
0	1.953677628	0.734	0.092	0	13 GRIK2
3.74E-298	1.946079377	0.979	0.555	1.20E-293	13 DST
1.14E-280	1.939652121	0.966	0.553	3.65E-276	13 MYO1E
0	1.928350985	0.812	0.168	0	13 ROBO2
0	1.921537525	0.642	0.016	0	13 NDNF
0	1.920346602	0.775	0.074	0	13 GRK5
2.08E-224	1.91799644	0.823	0.305	6.67E-220	13 RBFOX1
0	1.917587628	0.759	0.09	0	13 GRIK1
1.63E-237	1.915386708	0.888	0.421	5.24E-233	13 CPNE8
0	1.906395679	0.71	0.017	0	13 LINC00839
5.53E-290	1.903420798	0.953	0.672	1.78E-285	13 ARMH4
1.15E-251	1.893813901	0.935	0.498	3.71E-247	13 ARHGEF3
0	1.88980499	0.867	0.268	0	13 CLIP4
1.02E-279	1.889532185	0.891	0.382	3.27E-275	13 MPP5
2.61E-258	1.873692292	0.953	0.564	8.37E-254	13 MTSS1
0	1.872061536	0.822	0.132	0	13 RIPOR1
7.95E-291	1.871433245	0.859	0.292	2.55E-286	13 SFMBT2
2.13E-292	1.862860264	0.95	0.505	6.84E-288	13 PDE4DIP
3.07E-287	1.85581814	0.932	0.467	9.87E-283	13 AC241952.1
0	1.844611324	0.759	0.043	0	13 AC027682.6
0	1.843700322	0.89	0.196	0	13 TCF7L1
0	1.840802351	0.844	0.171	0	13 PCED1B
0	1.836314323	0.789	0.08	0	13 MSRB3
9.71E-186	1.82623001	0.867	0.417	3.12E-181	13 GPC6
4.38E-252	1.817756475	0.951	0.565	1.41E-247	13 CRIM1
2.50E-296	1.816338156	0.938	0.356	8.02E-292	13 CACNB2
2.28E-248	1.81000867	0.937	0.499	7.31E-244	13 UACA
0	1.789374726	0.689	0.137	0	13 ARRDC4
6.45E-243	1.773534195	0.828	0.34	2.07E-238	13 SNX25
0	1.767647128	0.853	0.202	0	13 ANKRD33B
0	1.761583026	0.661	0.101	0	13 TRPC6
0	1.76039712	0.699	0.036	0	13 TSPAN2
0	1.759396029	0.812	0.223	0	13 SERINC5
0	1.758235456	0.493	0.047	0	13 CCN2
9.87E-302	1.75434987	0.895	0.274	3.17E-297	13 SGIP1
6.62E-270	1.749924919	0.909	0.363	2.13E-265	13 ITGB8
1.50E-239	1.727291107	0.924	0.535	4.81E-235	13 CTDSPL
0	1.721530905	0.737	0.014	0	13 TYRO3
0	1.714510155	0.694	0.092	0	13 C1orf21
0	1.694425001	0.574	0.063	0	13 XKR4
0	1.687977564	0.682	0.044	0	13 CRACD
7.89E-211	1.668579966	0.917	0.54	2.54E-206	13 PDLIM5
0	1.658790493	0.848	0.249	0	13 KLF7
2.68E-274	1.644434436	0.887	0.336	8.62E-270	13 RETREG1
1.41E-195	1.639237101	0.953	0.616	4.52E-191	13 KCNQ1OT1
0	1.633212366	0.687	0.016	0	13 WT1-AS

1.34E-234	1.624195447	0.823	0.268	4.30E-230	13 CA10
0	1.609197371	0.566	0.088	0	13 HPGD
3.69E-226	1.599147429	0.94	0.644	1.18E-221	13 ARHGEF12
1.94E-214	1.569712354	0.909	0.485	6.23E-210	13 ZNRF3
0	1.565895138	0.676	0.057	0	13 AXDND1
9.60E-231	1.558871195	0.95	0.636	3.08E-226	13 EPB4IL5
0	1.554828093	0.585	0.008	0	13 NKD1
5.09E-239	1.55434278	0.661	0.171	1.63E-234	13 AL365295.1
3.38E-239	1.547545352	0.908	0.421	1.09E-234	13 CMAHP
3.26E-274	1.528094405	0.882	0.318	1.05E-269	13 ANKRD44
0	1.519744725	0.786	0.187	0	13 FIGN
1.63E-207	1.515811313	0.919	0.484	5.22E-203	13 COL4A4
0	1.505747887	0.754	0.154	0	13 ANXA2
1.60E-228	1.482852267	0.901	0.415	5.13E-224	13 MYH9
3.24E-222	1.482451475	0.93	0.469	1.04E-217	13 MYO1D
4.02E-208	1.482011066	0.895	0.496	1.29E-203	13 TET2
5.33E-177	1.466015255	0.895	0.566	1.71E-172	13 NLK
0	1.465741279	0.637	0.01	0	13 LMX1B
6.45E-181	1.456424027	0.969	0.675	2.07E-176	13 THSD7A
8.40E-308	1.450493153	0.768	0.194	2.70E-303	13 PRDM5
1.00E-188	1.448919075	0.912	0.504	3.21E-184	13 GMDS
1.06E-166	1.446096223	0.977	0.703	3.39E-162	13 DLG2
3.14E-183	1.432699869	0.893	0.467	1.01E-178	13 ITGAV
0	1.42882422	0.596	0.002	0	13 PTHLH
4.95E-271	1.411894523	0.78	0.24	1.59E-266	13 AC244669.2
7.84E-223	1.404800048	0.746	0.25	2.52E-218	13 GOLIM4
2.48E-296	1.400926528	0.658	0.142	7.96E-292	13 GRK3
0	1.392626663	0.682	0.061	0	13 CORO2B
3.09E-158	1.390483098	0.656	0.228	9.93E-154	13 C1QTNF7-AS1
2.28E-166	1.371709967	0.87	0.506	7.32E-162	13 TANC1
0	1.362537547	0.652	0.123	0	13 TMEM150C
8.87E-158	1.359629834	0.809	0.372	2.85E-153	13 AC004160.1
3.85E-176	1.357810098	0.942	0.591	1.24E-171	13 ADAMTS9
0	1.348214372	0.712	0.083	0	13 FRMD1
9.96E-206	1.346891734	0.971	0.693	3.20E-201	13 ZSWIM6
0	1.340247295	0.652	0.052	0	13 PARD6G
0	1.338918951	0.715	0.152	0	13 USP46
4.01E-186	1.338600114	0.861	0.392	1.29E-181	13 GULP1
0	1.338313889	0.723	0.156	0	13 KLHL42
1.05E-189	1.335343313	0.914	0.479	3.38E-185	13 ACTN4
2.37E-207	1.332855403	0.906	0.391	7.62E-203	13 CMYA5
0	1.331218498	0.515	0.018	0	13 F3
0	1.328444391	0.618	0.066	0	13 BTC
2.11E-197	1.32513086	0.817	0.351	6.77E-193	13 NOTCH2
4.83E-211	1.322354635	0.776	0.284	1.55E-206	13 TUSC3
8.14E-126	1.320509964	0.83	0.499	2.61E-121	13 BACH1
2.94E-225	1.315859768	0.736	0.23	9.44E-221	13 CEP85L
2.06E-294	1.31565729	0.739	0.171	6.62E-290	13 ZFPM2
4.66E-205	1.313166443	0.76	0.247	1.50E-200	13 TNIK
3.20E-208	1.310485334	0.893	0.357	1.03E-203	13 MYO1B
3.92E-224	1.303545142	0.814	0.301	1.26E-219	13 PAK1

3.01E-210	1.295814911	0.759	0.27	9.67E-206	13 SORT1
0	1.295129415	0.587	0.048	0	13 TMC1
0	1.290884179	0.582	0.032	0	13 MAP6
7.53E-232	1.290498074	0.755	0.225	2.42E-227	13 AC068234.1
3.74E-187	1.282203736	0.788	0.33	1.20E-182	13 PARVA
4.54E-169	1.280819147	0.872	0.495	1.46E-164	13 MIB1
2.69E-164	1.27793479	0.945	0.658	8.63E-160	13 PTPN13
0	1.277861326	0.595	0.021	0	13 TNNT2
1.21E-189	1.277292946	0.891	0.493	3.89E-185	13 NBPFL4
8.84E-170	1.274955038	0.656	0.22	2.84E-165	13 LNC-LBCS
0	1.263996379	0.501	0.037	0	13 SNCA
0	1.259798729	0.632	0.116	0	13 AC109583.1
9.74E-186	1.259274523	0.982	0.616	3.13E-181	13 PRKG1
5.15E-294	1.252973178	0.556	0.094	1.65E-289	13 LHFPL6
0	1.252309414	0.608	0.094	0	13 ITIH5
0	1.250938748	0.582	0.03	0	13 HTRA1
0	1.24994527	0.598	0.006	0	13 PPFIA4
0	1.244622326	0.684	0.145	0	13 FP700111.1
0	1.227469613	0.546	0.001	0	13 AP001021.1
0	1.21598657	0.53	0.027	0	13 PRKAR2B
4.09E-159	1.214305633	0.84	0.447	1.31E-154	13 AC245297.3
3.04E-305	1.212467805	0.695	0.152	9.76E-301	13 ITGA9-AS1
6.58E-177	1.199173025	0.76	0.304	2.11E-172	13 SLK
4.73E-155	1.198658699	0.906	0.52	1.52E-150	13 FRMD3
0	1.196558399	0.493	0.025	0	13 F5
5.43E-129	1.179904149	0.677	0.282	1.75E-124	13 DMD
1.18E-192	1.176035252	0.723	0.232	3.80E-188	13 JAZF1
0	1.174320423	0.601	0.045	0	13 AL590560.2
0	1.172093503	0.639	0.089	0	13 SYNJ2
3.26E-147	1.17125367	0.898	0.61	1.05E-142	13 RBMS1
4.52E-126	1.167796086	0.768	0.38	1.45E-121	13 AL589935.1
3.87E-184	1.164172064	0.84	0.354	1.24E-179	13 CAPN2
2.90E-236	1.157585552	0.828	0.245	9.32E-232	13 PSD3
1.53E-306	1.155723067	0.679	0.147	4.92E-302	13 AC245297.1
0	1.152959901	0.475	0.004	0	13 SERPINI2
0	1.149783981	0.455	0.026	0	13 MAP1B
1.29E-136	1.149575693	0.882	0.519	4.15E-132	13 PTPN14
8.68E-122	1.146865556	0.883	0.523	2.79E-117	13 MAML3
9.94E-136	1.143270411	0.836	0.453	3.19E-131	13 TOM1L2
6.69E-134	1.142484656	0.822	0.419	2.15E-129	13 CC2D2A
8.11E-132	1.138547889	0.712	0.309	2.61E-127	13 GTDC1
1.11E-198	1.137797954	0.797	0.266	3.57E-194	13 CTTNBP2
3.60E-279	1.135985436	0.386	0.048	1.16E-274	13 ADAM28
1.05E-300	1.135335646	0.596	0.105	3.38E-296	13 ITGB3
7.69E-145	1.133394573	0.75	0.348	2.47E-140	13 WASL
2.85E-194	1.127847908	0.697	0.211	9.14E-190	13 TLE4
7.92E-173	1.12348212	0.984	0.835	2.54E-168	13 PARD3
7.79E-267	1.12173421	0.572	0.111	2.50E-262	13 APBA1
2.21E-174	1.116456141	0.76	0.277	7.09E-170	13 DHRS3
3.55E-289	1.115633207	0.606	0.121	1.14E-284	13 LRP2BP
6.23E-170	1.11297813	0.447	0.098	2.00E-165	13 CNTN1

1.76E-212	1.108421293	0.677	0.184	5.66E-208	13 TSC22D3
3.25E-124	1.10412211	0.825	0.43	1.04E-119	13 RASSF8
8.19E-308	1.103725563	0.747	0.17	2.63E-303	13 ROBO1
1.61E-185	1.103240704	0.619	0.176	5.17E-181	13 LEPR
1.81E-121	1.103130262	0.817	0.41	5.82E-117	13 GHR
4.59E-155	1.098627826	0.797	0.326	1.48E-150	13 AL139807.1
1.33E-249	1.095784797	0.616	0.138	4.26E-245	13 TMCC3
0	1.090026046	0.52	0.023	0	13 SPOCK2
0	1.089996818	0.536	0.069	0	13 CDC42EP3
2.80E-240	1.086782242	0.592	0.137	9.00E-236	13 TMEM266
0	1.086094165	0.533	0.025	0	13 PDLIM2
4.28E-195	1.082370208	0.559	0.138	1.37E-190	13 FAM81A
1.34E-189	1.079436802	0.408	0.077	4.30E-185	13 AC009975.1
0	1.079052505	0.546	0.085	0	13 STON1-GTF2A11
9.19E-143	1.061620232	0.386	0.087	2.95E-138	13 AC018742.1
5.08E-128	1.056081101	0.822	0.403	1.63E-123	13 ZNF124
4.08E-132	1.055018245	0.947	0.695	1.31E-127	13 APBB2
8.32E-138	1.054822796	0.883	0.498	2.67E-133	13 PHACTR4
0	1.052702681	0.536	0.071	0	13 SBSPON
3.62E-145	1.046305992	0.806	0.401	1.16E-140	13 NBPF26
0	1.046031233	0.54	0.042	0	13 NLRP1
0	1.043649161	0.53	0.039	0	13 IGFBP2
3.76E-135	1.041208204	0.825	0.451	1.21E-130	13 NBPF19
5.06E-113	1.027809776	0.806	0.432	1.62E-108	13 SEPTIN11
7.27E-256	1.024214365	0.546	0.104	2.33E-251	13 SMAD6
1.83E-206	1.021029754	0.681	0.194	5.86E-202	13 ITGA9
1.10E-161	1.017209158	0.656	0.223	3.52E-157	13 MFSD6
0	1.01602359	0.579	0.072	0	13 INF2
0	1.01116836	0.428	0.015	0	13 HS3ST3A1
0	1.009806899	0.548	0.089	0	13 IQSEC2
3.14E-177	1.00406587	0.669	0.203	1.01E-172	13 BCAM
0	0.997669496	0.433	0.009	0	13 ADORA1
5.99E-122	0.99642044	0.869	0.461	1.92E-117	13 SSBP2
3.09E-23	0.995027414	0.313	0.177	9.93E-19	13 FOS
5.70E-268	0.992353442	0.538	0.094	1.83E-263	13 ZNF521
0	0.9808857	0.436	0.019	0	13 DCN
1.70E-126	0.974997935	0.849	0.437	5.47E-122	13 FAT1
6.65E-174	0.969167048	0.575	0.162	2.13E-169	13 TTC33
0	0.967853928	0.517	0.055	0	13 TRAM2
2.48E-117	0.965369654	0.947	0.718	7.97E-113	13 KANK1
7.09E-128	0.960146999	0.75	0.321	2.28E-123	13 MCC
4.15E-121	0.959334219	0.848	0.442	1.33E-116	13 PALLD
4.47E-189	0.958664515	0.65	0.18	1.44E-184	13 PHF21B
7.32E-248	0.949674304	0.535	0.102	2.35E-243	13 TBXAS1
0	0.94497125	0.465	0.051	0	13 SPATA18
0	0.93623375	0.423	0.024	0	13 CDKN1C
0	0.935794011	0.528	0.07	0	13 ILDR2
8.53E-149	0.935149014	0.674	0.233	2.74E-144	13 NPR3
2.69E-207	0.930103314	0.564	0.128	8.63E-203	13 NXN
0	0.921069736	0.517	0.067	0	13 ARHGAP19-SLIT
0	0.91232691	0.444	0.009	0	13 NES

1.54E-137	0.897967555	0.579	0.195	4.94E-133	13 LNX2
1.04E-126	0.894020829	0.917	0.597	3.33E-122	13 UTRN
0	0.889300049	0.379	0.021	0	13 ARHGEF26-AS1
6.91E-126	0.885807364	0.778	0.33	2.22E-121	13 C9
1.06E-133	0.885199324	0.708	0.259	3.41E-129	13 SLC7A8
2.08E-120	0.883985786	0.943	0.629	6.67E-116	13 AKT3
0	0.88326509	0.433	0.017	0	13 PHYHIP
1.59E-96	0.882508966	0.891	0.635	5.09E-92	13 QKI
5.47E-136	0.878740822	0.739	0.289	1.76E-131	13 PLEKHH2
1.59E-72	0.869740093	0.47	0.193	5.11E-68	13 CTNNA3
0	0.867459059	0.464	0.04	0	13 SYNPO
9.08E-224	0.867232362	0.603	0.137	2.92E-219	13 TNS2
3.45E-249	0.858837401	0.48	0.082	1.11E-244	13 TRIB2
1.44E-82	0.850432177	0.729	0.426	4.64E-78	13 ABI1
4.83E-285	0.848401019	0.429	0.057	1.55E-280	13 KCND3
1.01E-136	0.846288159	0.681	0.252	3.24E-132	13 DCBLD2
3.50E-93	0.845916182	0.729	0.381	1.12E-88	13 ZFYVE9
3.83E-164	0.839878655	0.634	0.188	1.23E-159	13 ITGA3
4.23E-234	0.839250784	0.509	0.098	1.36E-229	13 FAM126A
1.67E-112	0.838820683	0.841	0.409	5.36E-108	13 COL4A5
0	0.838674687	0.429	0.033	0	13 TMOD1
1.72E-160	0.837419373	0.509	0.132	5.51E-156	13 SH3BGR2
4.10E-236	0.836888253	0.365	0.05	1.32E-231	13 CITED2
5.87E-78	0.836848325	0.781	0.465	1.89E-73	13 SCFD2
6.78E-145	0.832827944	0.7	0.259	2.18E-140	13 NBP10
2.01E-145	0.831802354	0.58	0.182	6.47E-141	13 TET3
1.82E-77	0.831180255	0.835	0.55	5.84E-73	13 PCMTD1
1.76E-124	0.828736964	0.639	0.227	5.66E-120	13 ANKS1B
8.96E-136	0.828006591	0.692	0.271	2.88E-131	13 NAPEPLD
8.46E-230	0.825661939	0.483	0.087	2.72E-225	13 MAP3K20
2.42E-111	0.823628334	0.736	0.348	7.76E-107	13 PRKCI
1.75E-158	0.822654743	0.724	0.252	5.61E-154	13 PLEKHG1
0	0.822257295	0.36	0.001	0	13 LINC01661
3.02E-88	0.821057038	0.806	0.485	9.70E-84	13 CLEC16A
0	0.82089381	0.412	0.003	0	13 AC023154.1
1.67E-147	0.819738102	0.571	0.17	5.35E-143	13 SULF2
0	0.818446408	0.391	0.033	0	13 FLRT2
1.75E-75	0.816075274	0.812	0.476	5.63E-71	13 FMNL2
6.78E-67	0.81526932	0.715	0.416	2.18E-62	13 ITM2B
0	0.813815414	0.37	0.033	0	13 NALCN
0	0.812158455	0.297	0.002	0	13 DDN
6.85E-189	0.812123933	0.533	0.121	2.20E-184	13 SPSB1
3.01E-91	0.812046948	0.686	0.338	9.66E-87	13 TMOD3
6.73E-78	0.809095611	0.614	0.277	2.16E-73	13 AL359232.1
5.03E-41	0.807436677	0.535	0.283	1.62E-36	13 AC007319.1
0	0.807075613	0.444	0.051	0	13 VIM
0	0.806263314	0.464	0.019	0	13 PDGFRB
6.65E-262	0.80433572	0.502	0.085	2.14E-257	13 ARRB1
6.25E-108	0.804214857	0.682	0.284	2.01E-103	13 LINC01090
1.53E-84	0.799252769	0.765	0.433	4.90E-80	13 KIF13A
3.82E-177	0.798945141	0.562	0.143	1.23E-172	13 MCTP2

3.78E-79	0.795599102	0.901	0.632	1.21E-74	13 TNS3
1.63E-135	0.795584263	0.642	0.22	5.24E-131	13 ZBTB46
3.02E-104	0.795393717	0.982	0.874	9.70E-100	13 AL136164.2
1.01E-136	0.795372623	0.587	0.198	3.26E-132	13 CD47
1.12E-162	0.793157895	0.556	0.15	3.61E-158	13 TMEM241
1.16E-167	0.790286802	0.588	0.16	3.71E-163	13 TMEM178A
9.77E-83	0.789188098	0.504	0.205	3.14E-78	13 CDS1
0	0.786458747	0.284	0.006	0	13 CHI3L1
8.58E-87	0.786220756	0.814	0.467	2.75E-82	13 FCHSD2
6.07E-86	0.784596957	0.848	0.532	1.95E-81	13 ZNF609
0	0.783768848	0.292	0.001	0	13 LINC01312
4.58E-247	0.783364315	0.444	0.072	1.47E-242	13 DNAH9
3.36E-93	0.783266404	0.741	0.39	1.08E-88	13 REPS1
5.69E-126	0.780184394	0.629	0.22	1.83E-121	13 MDFIC
4.33E-162	0.779419485	0.575	0.16	1.39E-157	13 STON1
7.86E-91	0.777298993	0.533	0.203	2.52E-86	13 ERC2
0	0.775521673	0.438	0.02	0	13 SLC45A1
2.73E-71	0.774818953	0.796	0.514	8.78E-67	13 CSPP1
1.12E-92	0.774695856	0.789	0.439	3.59E-88	13 BCL2L2-PABPN
0	0.768466163	0.387	0.018	0	13 HS3ST3B1
2.89E-192	0.767998609	0.455	0.09	9.27E-188	13 DPYSL2
0	0.767683897	0.434	0.041	0	13 SPTB
4.53E-110	0.766971771	0.564	0.207	1.46E-105	13 DPY19L3
2.10E-85	0.762830497	0.627	0.282	6.73E-81	13 ZSWIM5
0	0.761543216	0.395	0.015	0	13 FAM89A
3.94E-225	0.758809727	0.418	0.067	1.26E-220	13 MXRA8
2.46E-162	0.758637971	0.442	0.098	7.90E-158	13 CHD3
2.71E-101	0.758080036	0.689	0.295	8.70E-97	13 ZNF462
0	0.75457913	0.426	0.042	0	13 PHACTR3
1.37E-101	0.751147018	0.752	0.359	4.39E-97	13 FNBP1
0	0.748992104	0.379	0.022	0	13 GPSM1
2.96E-97	0.748428966	0.575	0.224	9.52E-93	13 ATP8B1
3.87E-91	0.748169218	0.898	0.589	1.24E-86	13 EML4
2.60E-87	0.747995643	0.718	0.369	8.34E-83	13 HMGN3
2.63E-114	0.746958658	0.382	0.099	8.45E-110	13 CPNE4
1.06E-122	0.746353312	0.598	0.212	3.39E-118	13 PAPSS1
4.10E-66	0.739125364	0.814	0.548	1.32E-61	13 ADD3
0	0.739014829	0.34	0.01	0	13 JAKMIP2
2.83E-32	0.738312118	0.89	0.713	9.10E-28	13 ADAMTS9-AS2
3.41E-93	0.735879787	0.574	0.23	1.09E-88	13 EVL
9.99E-77	0.734379621	0.906	0.697	3.21E-72	13 PAN3
8.44E-96	0.733817526	0.775	0.408	2.71E-91	13 PLCG2
3.70E-188	0.731907878	0.4	0.073	1.19E-183	13 FLRT3
0	0.731125387	0.468	0.051	0	13 LIMS2
8.50E-243	0.728561174	0.327	0.039	2.73E-238	13 JPH1
2.70E-89	0.727146963	0.76	0.388	8.67E-85	13 HSPA12A
6.55E-65	0.725818842	0.78	0.491	2.10E-60	13 PAWR
3.20E-165	0.725609619	0.585	0.154	1.03E-160	13 ZEB2
2.63E-73	0.723509552	0.669	0.346	8.45E-69	13 ATP10D
0	0.715095014	0.342	0.028	0	13 TSHZ3
5.67E-91	0.714582516	0.596	0.26	1.82E-86	13 LEPROT

0	0.712010515	0.316	0.022	0	13 AC139491.7
5.33E-87	0.711069347	0.943	0.774	1.71E-82	13 FNDC3B
0	0.710243435	0.347	0.026	0	13 RAET1E-AS1
1.73E-116	0.707749649	0.532	0.166	5.56E-112	13 DTNA
1.40E-196	0.706809821	0.426	0.081	4.49E-192	13 ARV1
5.37E-69	0.705801148	0.874	0.663	1.72E-64	13 ERBIN
8.68E-83	0.702739363	0.689	0.338	2.79E-78	13 ITGA1
3.54E-258	0.701263779	0.384	0.05	1.14E-253	13 IL1RAP
0	0.699010625	0.344	0.005	0	13 PDYN-AS1
7.30E-203	0.696466052	0.452	0.084	2.34E-198	13 TTLL7
1.09E-163	0.696049598	0.374	0.073	3.49E-159	13 LCA5
3.89E-98	0.690895466	0.69	0.306	1.25E-93	13 SLC25A37
0	0.690136922	0.368	0.031	0	13 MYL9
7.16E-300	0.689416154	0.347	0.035	2.30E-295	13 CEACAM19
1.37E-135	0.689032	0.522	0.158	4.39E-131	13 EIF3M
0	0.685597228	0.348	0.015	0	13 LINC01031
0	0.684475243	0.344	0.007	0	13 MAFB
7.55E-52	0.683934747	0.87	0.584	2.42E-47	13 PDE7B
1.73E-125	0.683300683	0.334	0.071	5.57E-121	13 LINC02398
4.96E-177	0.681798969	0.507	0.114	1.59E-172	13 AFAP1L2
1.85E-74	0.680345379	0.765	0.422	5.95E-70	13 CEP112
1.26E-92	0.679841974	0.848	0.46	4.05E-88	13 FBXO21
1.04E-66	0.679537643	0.849	0.559	3.34E-62	13 PAM
2.48E-229	0.679212106	0.378	0.054	7.96E-225	13 AC092757.2
3.89E-81	0.678385907	0.53	0.215	1.25E-76	13 TXNRD1
1.34E-102	0.677118674	0.583	0.224	4.31E-98	13 GSN
6.10E-86	0.676955552	0.489	0.183	1.96E-81	13 STAT1
2.27E-66	0.676430516	0.919	0.695	7.29E-62	13 TEAD1
1.63E-78	0.676146324	0.517	0.205	5.23E-74	13 TSHZ1
1.49E-82	0.675668908	0.726	0.367	4.79E-78	13 BCAR3
1.94E-49	0.675236188	0.673	0.409	6.24E-45	13 NEK11
1.21E-98	0.674467484	0.626	0.251	3.87E-94	13 TRPC1
6.68E-67	0.674280553	0.69	0.376	2.15E-62	13 JAK2
2.40E-189	0.670509404	0.361	0.057	7.71E-185	13 LINC01197
6.20E-106	0.666877805	0.475	0.15	1.99E-101	13 LPCAT2
1.02E-49	0.663134476	0.713	0.434	3.29E-45	13 AF127577.4
4.89E-60	0.662865339	0.653	0.341	1.57E-55	13 SLC16A10
7.10E-71	0.661713358	0.784	0.477	2.28E-66	13 CAST
3.31E-66	0.660426584	0.588	0.29	1.06E-61	13 CCDC6
9.80E-87	0.659629879	0.559	0.218	3.15E-82	13 NECTIN2
6.31E-115	0.659079414	0.598	0.207	2.03E-110	13 LAMA5
9.75E-82	0.657401559	0.553	0.218	3.13E-77	13 AL139383.1
1.00E-48	0.655153046	0.968	0.88	3.21E-44	13 WWOX
5.00E-75	0.654306777	0.912	0.736	1.60E-70	13 PICALM
1.15E-62	0.652904763	0.943	0.838	3.68E-58	13 RABGAP1L
6.33E-60	0.649027682	0.58	0.293	2.03E-55	13 CEMIP2
4.36E-99	0.64861561	0.574	0.221	1.40E-94	13 RNF145
0	0.642142423	0.368	0.037	0	13 BMP7
7.30E-74	0.640291966	0.94	0.796	2.34E-69	13 SBF2
1.57E-106	0.639855837	0.447	0.132	5.04E-102	13 SLC44A2
0	0.636056312	0.384	0.03	0	13 ARHGAP23

5.51E-48	0.632514487	0.618	0.351	1.77E-43	13 NRIP1
1.16E-88	0.631527781	0.502	0.187	3.73E-84	13 FPGT-TNNI3K
9.52E-132	0.630382427	0.389	0.088	3.06E-127	13 MAP2
6.00E-57	0.629369124	0.742	0.454	1.93E-52	13 LINC00894
5.91E-56	0.628599213	0.724	0.447	1.90E-51	13 TAF15
5.54E-169	0.62806403	0.423	0.086	1.78E-164	13 CHN1
1.73E-134	0.628036209	0.459	0.121	5.57E-130	13 TRAF5
0	0.626693101	0.272	0.008	0	13 RAMP1
1.07E-196	0.626622452	0.408	0.074	3.43E-192	13 MFF-DT
1.87E-72	0.626086403	0.959	0.827	5.99E-68	13 MACF1
1.44E-36	0.625274405	0.511	0.285	4.63E-32	13 DSTN
0	0.624434858	0.386	0.035	0	13 ACSL5
3.59E-121	0.623251131	0.334	0.074	1.15E-116	13 LAMA3
0	0.623202037	0.379	0.037	0	13 SPARC
6.71E-81	0.621674645	0.585	0.25	2.16E-76	13 PCMTD2
7.24E-59	0.621672152	0.771	0.487	2.33E-54	13 FERMT2
2.19E-59	0.61952046	0.898	0.706	7.04E-55	13 ERC1
1.08E-147	0.619511411	0.391	0.084	3.48E-143	13 PARD6G-AS1
5.09E-77	0.618948962	0.854	0.515	1.63E-72	13 PTBP3
5.41E-212	0.615785227	0.293	0.035	1.74E-207	13 KC6
3.40E-116	0.612982204	0.418	0.113	1.09E-111	13 IRAK3
0	0.609627829	0.316	0.02	0	13 AC022364.1
8.07E-47	0.607798577	0.773	0.505	2.59E-42	13 AUTS2
9.67E-59	0.607729828	0.893	0.685	3.11E-54	13 JPX
5.02E-31	0.607504706	0.661	0.419	1.61E-26	13 PDK4
1.99E-152	0.606973281	0.441	0.102	6.39E-148	13 AC243964.3
3.99E-70	0.605717471	0.37	0.126	1.28E-65	13 ATRNL1
2.55E-175	0.604555858	0.425	0.086	8.20E-171	13 ARHGEF37
3.05E-29	0.597978217	0.412	0.224	9.78E-25	13 RCAN1
5.79E-82	0.595830536	0.345	0.103	1.86E-77	13 RGS17
1.83E-294	0.594579717	0.321	0.031	5.88E-290	13 LINC01252
5.35E-68	0.593594573	0.75	0.416	1.72E-63	13 BICD1
5.73E-54	0.589319035	0.501	0.23	1.84E-49	13 SLC2A13
0	0.586129789	0.29	0.015	0	13 MYLK3
1.11E-51	0.58388506	0.624	0.339	3.57E-47	13 ARAP2
6.70E-167	0.582311473	0.395	0.077	2.15E-162	13 DUBR
3.00E-53	0.582172085	0.661	0.378	9.65E-49	13 MED27
1.57E-42	0.581434229	0.434	0.209	5.03E-38	13 C12orf40
0	0.579465118	0.301	0.006	0	13 AL049838.1
1.56E-65	0.578035244	0.52	0.224	5.03E-61	13 PLOD2
0	0.577808915	0.272	0.011	0	13 AL390726.5
5.87E-92	0.576902831	0.843	0.446	1.89E-87	13 DOCK4
7.23E-243	0.576071591	0.31	0.034	2.32E-238	13 TPM2
2.46E-72	0.573658091	0.392	0.135	7.91E-68	13 AC093865.1
3.92E-75	0.573553382	0.502	0.2	1.26E-70	13 ARL13B
1.41E-91	0.572871871	0.357	0.101	4.52E-87	13 L3MBTL3
5.04E-57	0.569834325	0.695	0.388	1.62E-52	13 CAMSAP2
6.60E-65	0.569396338	0.77	0.448	2.12E-60	13 SENP7
3.46E-123	0.568351677	0.373	0.092	1.11E-118	13 DANCR
3.82E-118	0.568068763	0.378	0.09	1.23E-113	13 KCNT2
3.63E-117	0.567739648	0.436	0.122	1.17E-112	13 HPS5

5.98E-51	0.56726713	0.799	0.518	1.92E-46	13 EFCAB13
2.11E-78	0.566800093	0.707	0.334	6.77E-74	13 CASZ1
0	0.566754055	0.251	0.002	0	13 LINC02174
2.11E-157	0.566353778	0.342	0.063	6.78E-153	13 IL17RD
5.27E-78	0.56299233	1	0.962	1.69E-73	13 NEAT1
2.70E-58	0.56194516	0.616	0.321	8.67E-54	13 RAD23B
1.65E-66	0.559896527	0.344	0.114	5.30E-62	13 MIR503HG
1.11E-283	0.559044583	0.361	0.04	3.57E-279	13 POLA2
1.55E-59	0.557140462	0.742	0.408	4.97E-55	13 SPATS2L
5.84E-136	0.555176016	0.418	0.1	1.88E-131	13 MTSS2
1.43E-53	0.554752318	0.588	0.31	4.58E-49	13 STXBP3
2.36E-50	0.553649661	0.673	0.404	7.57E-46	13 APPBP2
6.13E-44	0.552308376	0.815	0.592	1.97E-39	13 PHIP
2.90E-103	0.551778268	0.444	0.136	9.31E-99	13 CTNBP1
1.44E-58	0.547765983	0.624	0.323	4.64E-54	13 PTPN21
1.42E-57	0.546862189	0.652	0.354	4.55E-53	13 WDSUB1
4.37E-55	0.546072855	0.773	0.491	1.40E-50	13 CCDC18-AS1
6.25E-87	0.544249639	0.668	0.294	2.01E-82	13 WASHC1
1.58E-85	0.54301443	0.558	0.213	5.06E-81	13 ST3GAL1
1.11E-95	0.542410176	0.361	0.101	3.55E-91	13 FAM114A1
1.71E-41	0.541242147	0.334	0.143	5.51E-37	13 PPA1
2.91E-82	0.54045406	0.671	0.291	9.36E-78	13 BNIP3L
1.61E-125	0.540173072	0.391	0.095	5.17E-121	13 STN1
2.36E-110	0.539825123	0.417	0.117	7.59E-106	13 LGALS8
7.84E-126	0.539795304	0.334	0.071	2.52E-121	13 ME1
3.03E-119	0.539385252	0.378	0.089	9.73E-115	13 XYLT1
2.86E-204	0.53903839	0.386	0.061	9.17E-200	13 MICAL2
1.27E-50	0.537888033	0.728	0.437	4.07E-46	13 CHD7
0	0.537462112	0.29	0.009	0	13 AC025809.1
0	0.535692806	0.267	0.019	0	13 CCNYL2
1.58E-135	0.535504122	0.457	0.115	5.09E-131	13 SLC6A6
1.03E-125	0.535395753	0.353	0.079	3.32E-121	13 METTL24
7.23E-72	0.532974021	0.541	0.233	2.32E-67	13 HNRNPLL
1.55E-78	0.528500451	0.558	0.224	4.99E-74	13 RASSF8-AS1
4.26E-52	0.526898845	0.694	0.42	1.37E-47	13 WDR26
2.53E-160	0.526814136	0.292	0.046	8.13E-156	13 OLMALINC
1.04E-43	0.526496923	0.496	0.253	3.34E-39	13 SEM1
3.45E-55	0.526123694	0.895	0.649	1.11E-50	13 SH3RF1
1.29E-123	0.524562349	0.426	0.111	4.14E-119	13 ZNF496
8.07E-45	0.523042749	0.937	0.767	2.59E-40	13 IGF1R
1.70E-46	0.522884217	0.788	0.528	5.47E-42	13 VGLL4
1.17E-240	0.520502888	0.303	0.034	3.77E-236	13 GSTCD
1.59E-86	0.520389238	0.462	0.158	5.11E-82	13 SYT9
2.35E-92	0.518416941	0.562	0.211	7.56E-88	13 NBP20
1.24E-65	0.517264696	0.558	0.252	3.99E-61	13 AC073283.3
3.73E-226	0.5168937	0.272	0.028	1.20E-221	13 AC064875.1
1.24E-46	0.516782833	0.697	0.413	3.99E-42	13 TRAPPC10
2.52E-120	0.515176895	0.381	0.092	8.10E-116	13 TMSB4X
2.62E-74	0.515122005	0.718	0.345	8.42E-70	13 AASS
1.13E-59	0.515018445	0.606	0.313	3.65E-55	13 CAND1
7.28E-80	0.513958962	0.59	0.235	2.34E-75	13 PPP2R2B

2.72E-47	0.511181144	0.614	0.328	8.73E-43	13 CECR2
4.70E-40	0.510222141	0.707	0.436	1.51E-35	13 RHBDD1
1.25E-60	0.510180943	0.566	0.269	4.02E-56	13 ZBTB1
2.46E-53	0.50991105	0.583	0.296	7.90E-49	13 ZNRF2P2
3.03E-88	0.508099956	0.387	0.12	9.73E-84	13 NUDCD1
4.43E-68	0.507340519	0.545	0.244	1.42E-63	13 AC244669.1
1.62E-49	0.505531784	0.712	0.427	5.19E-45	13 ZNF280D
5.65E-51	0.504595583	0.78	0.478	1.81E-46	13 RAI14
1.90E-73	0.504001096	0.46	0.177	6.11E-69	13 HMGN1
3.18E-147	0.502654018	0.342	0.065	1.02E-142	13 PMEPA1
2.27E-45	0.501615256	0.765	0.515	7.29E-41	13 ROCK1
8.26E-193	0.500595564	0.292	0.038	2.65E-188	13 H2AJ
1.69E-65	0.499427192	0.786	0.433	5.41E-61	13 SASH1
1.13E-75	0.498893727	0.535	0.217	3.63E-71	13 EFHC1
2.91E-40	0.498711046	0.567	0.309	9.34E-36	13 AC087564.1
8.28E-84	0.498620629	0.515	0.189	2.66E-79	13 SDC2
0	0.49852765	0.261	0.006	0	13 PTGER4
5.84E-43	0.498470181	0.689	0.427	1.87E-38	13 VEZT
5.19E-52	0.497084157	0.575	0.285	1.67E-47	13 AHNAK
4.58E-41	0.496070825	0.647	0.384	1.47E-36	13 UBAP2
3.98E-67	0.494535453	0.515	0.218	1.28E-62	13 LRRC1
1.82E-55	0.493652498	0.716	0.406	5.86E-51	13 SPTAN1
1.09E-186	0.492967518	0.332	0.051	3.50E-182	13 WTAPP1
6.69E-62	0.491619159	0.582	0.276	2.15E-57	13 FANCL
2.41E-250	0.491418628	0.308	0.033	7.74E-246	13 SIRPA
4.56E-44	0.486684521	0.763	0.502	1.47E-39	13 EPC1
1.86E-34	0.486327373	0.878	0.674	5.98E-30	13 ARHGAP24
4.09E-54	0.482185246	0.629	0.322	1.31E-49	13 NFATC3
2.66E-62	0.481439462	0.504	0.218	8.53E-58	13 CDC40
5.94E-226	0.480291986	0.303	0.035	1.91E-221	13 GPR173
2.76E-59	0.479035779	0.613	0.301	8.88E-55	13 NBPF9
1.95E-24	0.478029781	0.69	0.501	6.25E-20	13 RFX3
3.03E-50	0.475791605	0.828	0.548	9.73E-46	13 ARHGAP29
3.21E-61	0.475405682	0.506	0.219	1.03E-56	13 AC027097.2
6.34E-101	0.475110927	0.436	0.133	2.03E-96	13 TMCO3
1.49E-28	0.473933128	0.297	0.14	4.79E-24	13 AC013652.1
2.30E-66	0.473065259	0.93	0.723	7.39E-62	13 GLS
2.02E-127	0.472760017	0.29	0.055	6.50E-123	13 FAM153A
8.02E-32	0.47232921	0.648	0.424	2.58E-27	13 FRS2
1.85E-55	0.471501422	0.588	0.297	5.95E-51	13 RFC1
1.12E-55	0.471346948	0.507	0.233	3.59E-51	13 NCK2
9.17E-44	0.469077694	0.553	0.299	2.95E-39	13 MBD2
3.17E-43	0.467370386	0.54	0.277	1.02E-38	13 PCDHGA1
1.97E-73	0.467063573	0.306	0.089	6.33E-69	13 FAM184B
1.48E-49	0.466295871	0.358	0.145	4.74E-45	13 AC012618.3
2.74E-57	0.465956257	0.455	0.195	8.81E-53	13 TSEN15
7.31E-70	0.465874242	0.358	0.119	2.35E-65	13 CSRP1
1.25E-94	0.465405986	0.35	0.095	4.02E-90	13 CCAR2
3.32E-60	0.464502779	0.964	0.79	1.07E-55	13 RBPMS
8.19E-44	0.463199657	0.687	0.409	2.63E-39	13 ZNF277
5.43E-41	0.462576835	0.814	0.575	1.74E-36	13 WWP1

1.19E-37	0.462105812	0.511	0.275	3.83E-33	13 TERF2IP
3.85E-112	0.461113315	0.295	0.062	1.24E-107	13 TDRD5
1.04E-74	0.459945672	0.417	0.147	3.34E-70	13 OGFRL1
5.09E-42	0.459854323	0.52	0.27	1.64E-37	13 GAB2
3.32E-71	0.459497584	0.512	0.199	1.07E-66	13 SEMA3B
2.83E-59	0.459309412	0.514	0.222	9.09E-55	13 SOBP
8.35E-256	0.45787822	0.306	0.032	2.68E-251	13 MCM6
5.48E-182	0.456927022	0.274	0.036	1.76E-177	13 ZNF185
2.57E-58	0.455813342	0.538	0.247	8.25E-54	13 ZNF846
1.73E-48	0.454071998	0.781	0.504	5.55E-44	13 ARGLU1
2.65E-221	0.453862354	0.323	0.041	8.50E-217	13 PGM5P4
1.48E-128	0.45288785	0.306	0.06	4.75E-124	13 PEBP4
1.24E-32	0.451744401	0.391	0.193	3.99E-28	13 CENPP
2.09E-66	0.451490282	0.525	0.22	6.71E-62	13 AC019257.8
1.08E-84	0.451118411	0.348	0.101	3.46E-80	13 NDRG2
1.34E-38	0.447431742	0.695	0.432	4.32E-34	13 DPY19L1P1
1.80E-121	0.445740381	0.251	0.043	5.77E-117	13 TMOD2
8.84E-64	0.445522985	0.559	0.246	2.84E-59	13 NBPF15
4.44E-55	0.444344436	0.386	0.152	1.43E-50	13 IKZF2
2.48E-65	0.440326127	0.476	0.193	7.96E-61	13 ZC2HC1A
2.94E-22	0.438135422	0.695	0.51	9.43E-18	13 BCKDHB
6.14E-88	0.437909037	0.276	0.066	1.97E-83	13 SYCP2
6.75E-85	0.43756551	0.339	0.095	2.17E-80	13 AC012158.1
7.03E-150	0.43517502	0.259	0.038	2.26E-145	13 BMP1
3.05E-50	0.433197	0.562	0.286	9.80E-46	13 SLF2
3.31E-38	0.432368057	0.877	0.693	1.06E-33	13 CDC42BPA
2.92E-104	0.432355534	0.314	0.073	9.38E-100	13 PDE4B
7.61E-91	0.431914296	0.337	0.091	2.44E-86	13 TBC1D2B
3.69E-107	0.431103239	0.25	0.047	1.19E-102	13 GAS7
7.21E-43	0.430953169	0.818	0.542	2.32E-38	13 DAPK1
2.90E-53	0.43007731	0.382	0.148	9.30E-49	13 SCN7A
1.49E-56	0.429909099	0.522	0.24	4.78E-52	13 AKT2
1.51E-186	0.426175001	0.276	0.034	4.86E-182	13 DPYSL3
6.14E-39	0.425953527	0.613	0.35	1.97E-34	13 ITGB5
3.07E-39	0.425780726	0.634	0.372	9.85E-35	13 USO1
1.81E-71	0.424875586	0.514	0.201	5.80E-67	13 DCLK2
4.55E-99	0.424487383	0.303	0.071	1.46E-94	13 LINC01588
7.65E-39	0.420994649	0.438	0.216	2.46E-34	13 AC006504.5
2.08E-40	0.420744349	0.793	0.492	6.67E-36	13 XKR6
1.02E-136	0.420510717	0.318	0.06	3.28E-132	13 DAAM2
1.51E-86	0.419845107	0.301	0.076	4.86E-82	13 TIMP2
1.05E-21	0.419550733	0.721	0.523	3.38E-17	13 UBA6-AS1
0	0.419310314	0.272	0.019	0	13 RGS10
1.13E-106	0.418700817	0.329	0.078	3.64E-102	13 AL929236.1
9.22E-58	0.418375276	0.41	0.161	2.96E-53	13 DGKD
6.86E-30	0.417842767	0.548	0.323	2.20E-25	13 MEGF9
1.14E-35	0.416696622	0.546	0.314	3.65E-31	13 WDR41
1.23E-13	0.41480354	0.321	0.2	3.94E-09	13 LMNA
2.72E-51	0.413962759	0.89	0.645	8.73E-47	13 CPEB4
7.96E-86	0.413504106	0.955	0.514	2.56E-81	13 PTH1R
2.09E-44	0.413254045	0.598	0.322	6.70E-40	13 IP6K2

1.50E-80	0.413047143	0.282	0.073	4.81E-76	13 MYLIP
7.20E-78	0.412970003	0.267	0.068	2.31E-73	13 TMEM64
6.88E-260	0.408693936	0.258	0.022	2.21E-255	13 SERPINB9
1.74E-27	0.405087181	0.789	0.587	5.60E-23	13 RAPGEF6
1.89E-35	0.402894075	0.371	0.182	6.08E-31	13 NKAIN2
3.63E-37	0.402808258	0.95	0.829	1.17E-32	13 DDX17
1.18E-28	0.401769202	0.665	0.443	3.80E-24	13 STXBP5
6.14E-42	0.400846353	0.483	0.24	1.97E-37	13 AP3S1
3.19E-26	0.399613257	0.827	0.634	1.03E-21	13 ATXN2
6.38E-45	0.399221641	0.46	0.214	2.05E-40	13 PLD1
4.21E-44	0.398621713	0.517	0.268	1.35E-39	13 ZNF736
7.65E-91	0.398000909	0.258	0.058	2.46E-86	13 AL513318.1
1.49E-28	0.397778024	0.755	0.531	4.78E-24	13 DPYD
2.39E-70	0.396841131	0.263	0.07	7.67E-66	13 AJ009632.2
5.47E-42	0.396686419	0.407	0.186	1.76E-37	13 CCDC122
1.07E-69	0.394640222	0.36	0.12	3.43E-65	13 MED21
4.87E-32	0.393303105	0.951	0.853	1.56E-27	13 RERE
3.16E-33	0.392744285	0.689	0.431	1.01E-28	13 ARHGAP21
5.09E-32	0.392274739	0.541	0.316	1.63E-27	13 CEP83
1.49E-110	0.3919345	0.261	0.05	4.80E-106	13 PVR
3.40E-29	0.391301671	0.739	0.511	1.09E-24	13 ELF1
3.10E-31	0.391064781	0.652	0.408	9.94E-27	13 CDK6
1.56E-30	0.390231895	0.707	0.47	5.01E-26	13 FAM13B
8.94E-66	0.390168987	0.41	0.149	2.87E-61	13 KATNAL1
5.25E-30	0.38977659	0.616	0.379	1.69E-25	13 TMEM14B
1.84E-43	0.388825208	0.29	0.11	5.91E-39	13 AC073569.2
6.69E-143	0.388799463	0.28	0.046	2.15E-138	13 CR1L
1.39E-47	0.388592061	0.54	0.271	4.47E-43	13 PON2
1.08E-127	0.388586784	0.295	0.056	3.47E-123	13 FAM98A
1.37E-64	0.387024537	0.394	0.142	4.39E-60	13 FPGT
4.33E-46	0.385700804	0.53	0.256	1.39E-41	13 DOCK3
4.01E-39	0.385648769	0.384	0.172	1.29E-34	13 AGRN
8.26E-44	0.382000939	0.293	0.109	2.65E-39	13 AC024901.1
4.68E-98	0.380212937	0.31	0.074	1.50E-93	13 MDM1
1.21E-24	0.377450938	0.509	0.311	3.87E-20	13 FSIP2
4.73E-42	0.37734927	0.524	0.268	1.52E-37	13 LINC00472
8.23E-59	0.376860637	0.348	0.122	2.64E-54	13 CEP126
5.57E-33	0.374584735	0.535	0.299	1.79E-28	13 ANKH
5.70E-86	0.373972488	0.337	0.094	1.83E-81	13 ANKRD19P
8.66E-27	0.371546697	0.52	0.314	2.78E-22	13 RHEB
5.72E-33	0.371384649	0.634	0.394	1.84E-28	13 WASF2
1.74E-25	0.371138605	0.937	0.798	5.60E-21	13 SOX6
6.74E-25	0.370868397	0.613	0.391	2.17E-20	13 ACTR3
1.51E-42	0.370037512	0.261	0.093	4.83E-38	13 MIR3681HG
8.74E-56	0.369832793	0.319	0.113	2.81E-51	13 TXNRD2
1.22E-28	0.369722981	0.376	0.193	3.93E-24	13 PRANCR
5.93E-70	0.367981935	0.308	0.092	1.90E-65	13 LRP11
2.22E-35	0.367275085	0.464	0.236	7.14E-31	13 SLC38A2
2.37E-110	0.367214577	0.292	0.061	7.61E-106	13 SGCB
2.65E-60	0.367083985	0.402	0.15	8.50E-56	13 LIMK2
7.53E-43	0.366102417	0.525	0.268	2.42E-38	13 IARS1

1.12E-26	0.364759438	0.65	0.426	3.60E-22	13 MCPH1
0	0.364187844	0.259	0.003	0	13 AC006355.2
5.85E-22	0.362816204	0.865	0.693	1.88E-17	13 NCOA1
7.71E-48	0.3619586	0.417	0.178	2.48E-43	13 AL357153.2
1.09E-36	0.36132052	0.35	0.158	3.49E-32	13 ABHD3
3.23E-33	0.36097216	0.475	0.252	1.04E-28	13 INTS3
5.75E-53	0.36077262	0.433	0.182	1.85E-48	13 AC092666.1
5.10E-41	0.358923387	0.58	0.313	1.64E-36	13 MBOAT2
1.02E-41	0.358770662	0.551	0.286	3.29E-37	13 PRMT2
3.48E-48	0.358461288	0.457	0.204	1.12E-43	13 ALDH7A1
3.06E-43	0.357658422	0.389	0.17	9.83E-39	13 RSPH3
2.69E-92	0.356623334	0.681	0.27	8.65E-88	13 CALD1
1.57E-64	0.356559439	0.267	0.075	5.04E-60	13 FGFR4
1.50E-29	0.356360679	0.368	0.187	4.81E-25	13 DAG1
1.02E-28	0.356310976	0.622	0.399	3.29E-24	13 SEPTIN7
5.54E-40	0.356142974	0.593	0.325	1.78E-35	13 WBP1L
1.71E-45	0.35569813	0.541	0.259	5.49E-41	13 SCD5
4.19E-71	0.35561391	0.334	0.102	1.35E-66	13 JHY
6.11E-36	0.354003562	0.506	0.27	1.96E-31	13 RIC3
1.45E-79	0.353974818	0.311	0.086	4.66E-75	13 ECT2L
5.62E-38	0.353557522	0.968	0.918	1.81E-33	13 FTX
8.73E-28	0.353222325	0.723	0.489	2.80E-23	13 ATXN10
1.53E-36	0.353059155	0.46	0.235	4.91E-32	13 ENO4
1.87E-17	0.351915104	0.635	0.449	6.01E-13	13 ZNF516
5.61E-26	0.349967634	0.71	0.491	1.80E-21	13 HIPK3
6.14E-27	0.349702535	0.66	0.439	1.97E-22	13 SVIL-AS1
4.60E-62	0.349390478	0.353	0.122	1.48E-57	13 ARL3
4.63E-28	0.349359565	0.635	0.4	1.49E-23	13 SSBP3
1.95E-55	0.349158688	0.512	0.222	6.25E-51	13 TSPAN5
2.96E-31	0.348291202	0.465	0.248	9.52E-27	13 DLG5
2.11E-34	0.347767492	0.705	0.442	6.77E-30	13 TTC14
1.71E-35	0.347573782	0.538	0.301	5.49E-31	13 LENG8
1.37E-28	0.347135692	0.614	0.383	4.39E-24	13 FSD1L
2.58E-46	0.346522292	0.337	0.133	8.28E-42	13 WDR17
4.58E-45	0.346013636	0.426	0.196	1.47E-40	13 KAT7
7.21E-23	0.345194897	0.75	0.539	2.31E-18	13 SPAG16
2.62E-34	0.345124952	0.661	0.397	8.41E-30	13 STX7
1.10E-29	0.344643467	0.652	0.421	3.54E-25	13 PPHLN1
3.23E-45	0.344229808	0.415	0.185	1.04E-40	13 KCTD9
3.13E-58	0.342971733	0.34	0.119	1.01E-53	13 BTBD8
2.07E-26	0.342711254	0.4	0.215	6.65E-22	13 COX10-AS1
1.18E-28	0.342523539	0.671	0.428	3.80E-24	13 SPATA6
1.05E-23	0.342301552	0.606	0.39	3.36E-19	13 TAF3
8.50E-41	0.340576031	0.509	0.258	2.73E-36	13 AC009554.1
1.58E-26	0.339518457	0.488	0.29	5.08E-22	13 NUP58
8.64E-39	0.338489862	0.741	0.469	2.77E-34	13 PCNX4
2.63E-71	0.338309815	0.334	0.103	8.45E-67	13 GET1
2.03E-32	0.337732082	0.483	0.265	6.51E-28	13 KAT2B
1.59E-21	0.336733423	0.784	0.586	5.12E-17	13 OSBPL9
4.03E-64	0.335938154	0.295	0.089	1.29E-59	13 DDN-AS1
3.72E-25	0.335871876	0.66	0.452	1.20E-20	13 RNF115

1.36E-26	0.335346415	0.559	0.347	4.37E-22	13 SUSD6
5.58E-64	0.335139448	0.464	0.18	1.79E-59	13 NEDD9
8.31E-27	0.33339327	0.904	0.734	2.67E-22	13 LUC7L3
8.40E-25	0.333124267	0.653	0.438	2.70E-20	13 ABI2
1.47E-21	0.332954425	0.817	0.645	4.73E-17	13 FNBP1L
2.29E-35	0.332023024	0.543	0.294	7.34E-31	13 PLCB4
1.08E-25	0.331944066	0.799	0.581	3.46E-21	13 NT5C2
7.21E-61	0.331598974	0.353	0.123	2.32E-56	13 STX2
2.12E-132	0.330273023	0.25	0.039	6.79E-128	13 AL022324.1
2.23E-36	0.329018115	0.624	0.362	7.15E-32	13 ODF2L
9.96E-35	0.32879677	0.788	0.517	3.20E-30	13 ANKRD36
9.98E-25	0.328588931	0.301	0.151	3.21E-20	13 ANOS2P
7.62E-80	0.328461825	0.254	0.06	2.45E-75	13 ANTXR2
1.99E-23	0.328433941	0.812	0.618	6.39E-19	13 HERC4
1.95E-59	0.32768086	0.319	0.108	6.25E-55	13 ZNF596
1.00E-25	0.327215065	0.784	0.547	3.22E-21	13 LINC01278
1.91E-80	0.326678452	0.47	0.161	6.15E-76	13 DLC1
1.40E-49	0.326125355	0.323	0.12	4.50E-45	13 OSTF1
1.17E-42	0.324977382	0.272	0.101	3.75E-38	13 ZNF250
8.40E-22	0.324728265	0.52	0.329	2.70E-17	13 AC046134.2
3.87E-23	0.324418558	0.963	0.914	1.24E-18	13 GPHN
1.62E-21	0.323954027	0.859	0.685	5.22E-17	13 FAM172A
4.73E-31	0.323826128	0.499	0.276	1.52E-26	13 SMAD1
2.77E-26	0.323562902	0.593	0.365	8.89E-22	13 VRK2
3.28E-79	0.323393667	0.271	0.067	1.05E-74	13 CSCDC2
6.79E-60	0.321466141	0.279	0.086	2.18E-55	13 FAM47E
4.50E-33	0.321140475	0.308	0.136	1.44E-28	13 MYO1C
1.98E-57	0.320614661	0.373	0.138	6.35E-53	13 NBPF25P
7.08E-34	0.319433816	0.545	0.298	2.27E-29	13 ZNF37BP
3.27E-19	0.318761626	0.797	0.622	1.05E-14	13 DDX5
1.21E-22	0.317208453	0.762	0.557	3.90E-18	13 KIF1B
1.33E-46	0.317199963	0.353	0.141	4.28E-42	13 FAM20B
2.92E-62	0.316482233	0.284	0.084	9.36E-58	13 ALK
9.31E-58	0.316413354	0.348	0.122	2.99E-53	13 SYTL4
1.06E-31	0.316388237	0.272	0.113	3.39E-27	13 ADAMTSL4-AS1
1.74E-51	0.315655161	0.295	0.103	5.58E-47	13 GSTA4
1.73E-29	0.315525371	0.431	0.227	5.56E-25	13 CNIH3
1.99E-37	0.315099936	0.293	0.121	6.39E-33	13 AL117339.4
9.64E-54	0.314804869	0.318	0.11	3.10E-49	13 AFAP1
2.99E-30	0.314350826	0.63	0.376	9.61E-26	13 ZNF608
8.45E-21	0.314318093	0.775	0.586	2.72E-16	13 ZMYM4
1.98E-20	0.313840114	0.849	0.67	6.36E-16	13 NBEAL1
1.92E-32	0.313230514	0.522	0.294	6.16E-28	13 SMAD5
2.21E-28	0.3121534	0.564	0.328	7.11E-24	13 PLS3
2.36E-24	0.310566405	0.535	0.33	7.58E-20	13 RPS6KA2
3.84E-55	0.310178282	0.308	0.104	1.23E-50	13 DDX60
7.77E-32	0.310002296	0.648	0.399	2.50E-27	13 WASH3P
4.26E-35	0.308967992	0.838	0.556	1.37E-30	13 P3H2
2.05E-39	0.30890886	0.567	0.295	6.57E-35	13 AC092683.1
1.16E-41	0.308658113	0.496	0.239	3.74E-37	13 MTHFS
1.97E-19	0.307540545	0.629	0.437	6.32E-15	13 MTMR3

3.62E-54	0.306556911	0.54	0.24	1.16E-49	13 ADAMTS9-AS1
5.38E-22	0.306510875	0.483	0.288	1.73E-17	13 LINC01515
4.93E-25	0.306182955	0.63	0.413	1.58E-20	13 EEA1
1.08E-32	0.305968435	0.314	0.141	3.47E-28	13 CXADR
4.09E-46	0.305749181	0.399	0.168	1.31E-41	13 CCDC88A
1.62E-17	0.304607283	0.494	0.319	5.20E-13	13 AC104123.1
5.16E-41	0.304355334	0.459	0.219	1.66E-36	13 MAL2
2.73E-20	0.304157438	0.739	0.523	8.78E-16	13 JARID2
1.31E-25	0.304093608	0.77	0.568	4.22E-21	13 USP53
3.98E-31	0.303833958	0.562	0.322	1.28E-26	13 HECTD2
2.50E-37	0.302924531	0.528	0.279	8.04E-33	13 WASH8P
3.41E-24	0.302890992	0.677	0.444	1.10E-19	13 RNF150
1.37E-55	0.301396522	0.306	0.103	4.40E-51	13 AC104806.2
3.71E-37	0.301245958	0.366	0.165	1.19E-32	13 LINC01359
3.40E-22	0.300788291	0.715	0.508	1.09E-17	13 RSRP1
8.05E-25	0.300522579	0.556	0.347	2.58E-20	13 APC
3.27E-56	0.300347708	0.306	0.101	1.05E-51	13 HOTAIRM1
1.39E-35	0.299334625	0.327	0.143	4.46E-31	13 HSPB11
1.43E-38	0.299180197	0.276	0.107	4.60E-34	13 EXOG
2.68E-44	0.299041093	0.305	0.115	8.62E-40	13 AC010615.4
1.86E-37	0.2976803	0.34	0.15	5.99E-33	13 ERMARD
2.53E-29	0.297181956	0.292	0.13	8.13E-25	13 AC090825.1
2.87E-30	0.295713575	0.524	0.304	9.21E-26	13 TIAL1
5.79E-44	0.293929544	0.301	0.114	1.86E-39	13 NOD1
6.27E-23	0.293881532	0.29	0.144	2.01E-18	13 HBG2
7.16E-41	0.293356178	0.31	0.124	2.30E-36	13 KYAT1
1.29E-38	0.293331093	0.423	0.198	4.15E-34	13 ZNF559-ZNF177
1.62E-12	0.292528823	0.365	0.238	5.20E-08	13 LINC01036
6.47E-36	0.290903267	0.389	0.184	2.08E-31	13 SRFBP1
1.42E-30	0.290859596	0.37	0.179	4.57E-26	13 CNTRL
2.11E-37	0.289664563	0.869	0.611	6.78E-33	13 PRKD1
1.06E-15	0.288431174	0.279	0.156	3.41E-11	13 HDAC9
2.19E-34	0.288120288	0.381	0.181	7.02E-30	13 PWWP3A
9.99E-30	0.287905663	0.436	0.23	3.21E-25	13 DCUN1D5
1.44E-20	0.287289145	0.707	0.497	4.63E-16	13 CCSER2
3.84E-20	0.286533104	0.554	0.37	1.23E-15	13 TNPO3
2.08E-28	0.285725114	0.739	0.495	6.67E-24	13 VPS13C
2.44E-41	0.28521579	0.353	0.144	7.84E-37	13 EPHA7
1.31E-24	0.283926297	0.335	0.172	4.22E-20	13 PHTF1
2.68E-51	0.28347403	0.256	0.081	8.60E-47	13 INTS6-AS1
5.44E-35	0.283257083	0.345	0.155	1.75E-30	13 ARMC10
1.65E-16	0.282725428	0.896	0.779	5.28E-12	13 AOPEP
3.49E-32	0.282076425	0.499	0.27	1.12E-27	13 CDK5RAP2
8.74E-23	0.281316744	0.947	0.811	2.81E-18	13 MAPK10
1.12E-29	0.281159651	0.52	0.295	3.59E-25	13 PTPN9
5.40E-31	0.281000741	0.392	0.195	1.73E-26	13 ICA1L
6.20E-41	0.280959433	0.264	0.098	1.99E-36	13 COPS5
4.44E-27	0.28053698	0.459	0.258	1.43E-22	13 RAB18
1.54E-37	0.278788728	0.284	0.111	4.93E-33	13 AHDC1
1.50E-37	0.278766852	0.306	0.126	4.82E-33	13 AC027097.1
1.12E-17	0.278619342	0.288	0.158	3.60E-13	13 LRP5L

7.42E-46	0.27756398	0.269	0.094	2.38E-41	13 CD302
5.19E-23	0.277057073	0.483	0.294	1.67E-18	13 WRN
1.95E-72	0.276459405	0.25	0.062	6.28E-68	13 AC022893.1
4.92E-44	0.276199748	0.295	0.11	1.58E-39	13 CTNNA2
5.36E-48	0.275793756	0.344	0.133	1.72E-43	13 NDUFB9
5.26E-49	0.27557014	0.609	0.293	1.69E-44	13 RAPGEF3
9.85E-19	0.2738869	0.786	0.592	3.16E-14	13 WWC2
4.36E-21	0.27265298	0.775	0.574	1.40E-16	13 EPS15
3.19E-36	0.272604538	0.355	0.159	1.02E-31	13 CALCOCO1
2.09E-34	0.272034532	0.361	0.167	6.72E-30	13 AL035530.2
2.44E-37	0.271485492	0.29	0.117	7.83E-33	13 TRIM5
9.74E-17	0.271078514	0.666	0.477	3.13E-12	13 AC116366.2
6.96E-19	0.270443328	0.901	0.774	2.23E-14	13 CUX1
2.93E-21	0.270278214	0.489	0.29	9.42E-17	13 PBX3
6.59E-39	0.269790594	0.284	0.108	2.12E-34	13 GABBR1
1.06E-18	0.268630518	0.425	0.256	3.42E-14	13 CNTN3
2.13E-19	0.268073433	0.742	0.552	6.84E-15	13 SRSF5
2.80E-17	0.267796586	0.499	0.321	9.00E-13	13 ACTB
8.67E-128	0.267758563	0.344	0.07	2.78E-123	13 RIPOR2
8.10E-25	0.267075521	0.331	0.165	2.60E-20	13 TPM4
8.54E-37	0.266402778	0.306	0.127	2.74E-32	13 AC107021.1
1.69E-34	0.265125305	0.256	0.099	5.42E-30	13 AC139795.2
2.92E-17	0.26490209	0.596	0.402	9.38E-13	13 LINC00271
1.27E-10	0.263113766	0.75	0.595	4.06E-06	13 TCF7L2
7.98E-17	0.261739703	0.76	0.569	2.56E-12	13 LUC7L2
4.27E-42	0.260598796	0.355	0.148	1.37E-37	13 AC240274.1
1.34E-41	0.26008711	0.261	0.095	4.31E-37	13 GALC
2.21E-25	0.257899995	0.306	0.147	7.11E-21	13 RFLNA
8.10E-22	0.257342782	0.618	0.409	2.60E-17	13 PDCD6IP
1.36E-29	0.257122133	0.464	0.246	4.37E-25	13 WASH2P
3.75E-25	0.256931595	0.267	0.124	1.21E-20	13 TNFSF13B
4.48E-24	0.256896398	0.449	0.252	1.44E-19	13 TRAF3
1.31E-18	0.256727257	0.804	0.597	4.20E-14	13 ZRANB2
7.05E-17	0.256025913	0.671	0.48	2.27E-12	13 USP45
6.30E-25	0.255760757	0.486	0.283	2.02E-20	13 MYEF2
2.67E-27	0.2552707	0.763	0.507	8.56E-23	13 ANKRD36C
6.65E-30	0.255203967	0.368	0.182	2.14E-25	13 RHOQ
1.75E-32	0.254614294	0.335	0.151	5.63E-28	13 SNX8
2.09E-19	0.254387484	0.742	0.528	6.72E-15	13 HIVEP2
1.74E-18	0.254129767	0.65	0.447	5.58E-14	13 CPSF6
5.96E-26	0.253386879	0.42	0.23	1.91E-21	13 IDS
1.23E-37	0.252736345	0.254	0.094	3.95E-33	13 GLI3
3.48E-05	0.252077692	0.478	0.396	1	13 CNTN4
1.51E-17	0.251890699	0.582	0.395	4.86E-13	13 PSMD1
4.90E-45	0.251640952	0.348	0.138	1.57E-40	13 RASGRP3
6.48E-16	0.251195248	0.794	0.611	2.08E-11	13 FER
8.91E-18	0.250504225	0.718	0.503	2.86E-13	13 ECPAS
1.37E-28	0.250011927	0.316	0.147	4.39E-24	13 MICA
0	2.952040749	0.85	0.208	0	14 FGF14
0	2.676313095	0.63	0.119	0	14 COL8A1
0	2.655810049	0.85	0.022	0	14 TMEM207

0	2.565847417	1	0.241	0	14 SLC12A1
0	2.547202328	0.981	0.198	0	14 RP1
0	2.534968016	0.901	0.081	0	14 CLDN16
0	2.483361384	0.974	0.195	0	14 UMOD
8.77E-264	2.420843435	0.794	0.226	2.82E-259	14 ENOX1
0	2.259314723	0.998	0.346	0	14 PLCB1
6.93E-193	2.057004218	0.956	0.502	2.23E-188	14 NAV2
0	1.982426344	0.854	0.211	0	14 SLC4A7
0	1.969492694	0.995	0.28	0	14 CASR
3.35E-205	1.912724976	0.929	0.509	1.08E-200	14 AL137782.1
0	1.845465496	0.914	0.116	0	14 GP2
0	1.819040898	0.935	0.239	0	14 AC068631.1
0	1.799425634	0.889	0.226	0	14 HS6ST2
1.37E-236	1.788410167	0.988	0.475	4.41E-232	14 PDE1A
7.55E-218	1.747285247	0.977	0.416	2.42E-213	14 SLC16A12
5.07E-209	1.738829159	0.993	0.608	1.63E-204	14 PRKD1
1.66E-223	1.731951058	1	0.761	5.32E-219	14 ERBB4
2.50E-254	1.699168028	0.986	0.375	8.03E-250	14 CACNA2D3
3.93E-304	1.671056558	0.811	0.202	1.26E-299	14 TENM4
1.48E-289	1.616808597	0.915	0.258	4.75E-285	14 ESRRB
7.55E-191	1.610231381	1	0.715	2.43E-186	14 CGNL1
1.10E-151	1.543462127	0.977	0.677	3.52E-147	14 WNK1
2.30E-186	1.504327213	0.908	0.37	7.40E-182	14 PCDH9
0	1.491663005	0.732	0.124	0	14 NTRK2
3.72E-216	1.481152012	0.979	0.563	1.19E-211	14 USP53
1.41E-227	1.472140447	0.942	0.328	4.53E-223	14 LINC01762
2.61E-163	1.471852902	0.933	0.449	8.40E-159	14 KCTD1
9.30E-194	1.462313654	0.966	0.49	2.99E-189	14 HIP1
1.81E-229	1.44384346	0.829	0.246	5.81E-225	14 RANBP3L
1.12E-249	1.442299916	0.949	0.345	3.59E-245	14 LINC01606
4.72E-190	1.441811828	0.958	0.498	1.52E-185	14 WDFY2
2.75E-123	1.424778341	0.97	0.607	8.83E-119	14 MRPS6
3.38E-185	1.419458684	1	0.741	1.09E-180	14 ARHGAP6
2.19E-148	1.406244911	0.891	0.442	7.03E-144	14 PPM1L
5.96E-137	1.393219006	0.654	0.227	1.92E-132	14 NPSR1-AS1
3.12E-192	1.38663502	1	0.787	1.00E-187	14 CCSER1
4.75E-286	1.36844677	0.81	0.196	1.53E-281	14 NRK
5.31E-203	1.359722444	0.824	0.264	1.71E-198	14 LINC02343
1.03E-119	1.330429395	0.954	0.616	3.31E-115	14 AC058822.1
5.64E-82	1.319733693	0.813	0.458	1.81E-77	14 GPC5
1.28E-250	1.317544313	0.635	0.139	4.11E-246	14 FXYD6-FXYD2
1.39E-219	1.309958978	0.758	0.235	4.45E-215	14 MERTK
9.32E-152	1.295621655	0.794	0.307	2.99E-147	14 RBFOX1
3.84E-104	1.294821751	0.915	0.555	1.23E-99	14 P3H2
8.54E-126	1.29111594	0.928	0.496	2.74E-121	14 DSCAML1
1.82E-178	1.285696604	0.929	0.413	5.86E-174	14 STK32B
1.08E-166	1.285219622	0.94	0.452	3.46E-162	14 KLHL13
8.72E-153	1.277839433	0.862	0.349	2.80E-148	14 NELL1
1.81E-155	1.277605849	0.951	0.475	5.81E-151	14 FKBP5
6.99E-180	1.268372831	0.887	0.373	2.24E-175	14 EFHD1
1.89E-163	1.260227082	0.949	0.48	6.06E-159	14 CCDC148

2.51E-285	1.255813157	0.675	0.129	8.06E-281	14 ACP3
2.59E-147	1.249977381	0.995	0.78	8.32E-143	14 PKP4
2.84E-103	1.24950395	0.631	0.249	9.14E-99	14 RUNX1
1.39E-191	1.241460838	0.841	0.281	4.46E-187	14 TMEM52B
8.46E-156	1.241314499	0.959	0.579	2.72E-151	14 CPEB3
8.95E-205	1.235600814	0.871	0.296	2.88E-200	14 UGT8
4.69E-162	1.227562873	0.894	0.383	1.51E-157	14 INPP4B
1.88E-149	1.225813339	0.958	0.543	6.02E-145	14 CYFIP2
0	1.211219652	0.649	0.081	0	14 NPY1R
0	1.198730537	0.723	0.112	0	14 SIM2
5.74E-151	1.184969205	0.956	0.421	1.84E-146	14 CPM
4.66E-57	1.183713368	0.794	0.534	1.50E-52	14 SVIL
6.28E-153	1.179021679	0.974	0.568	2.02E-148	14 CLCN5
5.41E-139	1.177855711	0.988	0.622	1.74E-134	14 ATP1A1
6.55E-189	1.177451312	0.785	0.257	2.10E-184	14 PANTR1
3.18E-151	1.172871456	0.993	0.709	1.02E-146	14 ATP1B1
4.81E-182	1.172791522	0.787	0.267	1.55E-177	14 NUDT4
4.20E-107	1.171247867	0.489	0.157	1.35E-102	14 PXDNL
8.28E-143	1.15698233	0.935	0.537	2.66E-138	14 HIBADH
8.26E-125	1.153304544	0.769	0.333	2.65E-120	14 AC138123.1
5.53E-102	1.148832302	0.907	0.541	1.77E-97	14 PRICKLE2
1.77E-124	1.143719933	0.891	0.439	5.67E-120	14 RNF150
1.47E-131	1.134369689	0.861	0.446	4.71E-127	14 LMO7
3.69E-192	1.132421305	0.721	0.209	1.19E-187	14 GNAI1
8.01E-128	1.126404811	0.762	0.322	2.57E-123	14 CREB3L2
4.71E-153	1.124031538	0.725	0.251	1.51E-148	14 ITGB6
6.40E-134	1.119686625	0.827	0.349	2.05E-129	14 LINC00970
1.08E-100	1.1118194	0.993	0.783	3.48E-96	14 PLCL1
5.87E-77	1.111045283	0.642	0.303	1.89E-72	14 P4HA1
6.11E-181	1.095576523	0.513	0.113	1.96E-176	14 SFRP1
1.53E-151	1.086142675	0.753	0.277	4.93E-147	14 SLC25A33
8.96E-78	1.08538562	0.82	0.512	2.88E-73	14 RHOBTB3
6.63E-143	1.085150019	0.649	0.211	2.13E-138	14 RIMBP2
2.60E-124	1.084767667	0.887	0.451	8.36E-120	14 STK39
2.69E-142	1.083983599	0.79	0.303	8.63E-138	14 AC087564.1
1.66E-97	1.073273306	0.84	0.426	5.34E-93	14 BICDL1
7.93E-119	1.070055263	0.802	0.359	2.55E-114	14 MGAT5
1.36E-143	1.066247392	0.755	0.266	4.35E-139	14 SEMA6D
1.71E-99	1.05978283	0.591	0.242	5.50E-95	14 CHP1
4.93E-116	1.057317902	0.866	0.431	1.58E-111	14 DEPTOR
8.13E-114	1.054106197	0.575	0.199	2.61E-109	14 MAPK4
1.04E-112	1.050337046	0.864	0.489	3.36E-108	14 ETNK1
4.49E-134	1.04135269	0.711	0.244	1.44E-129	14 LINC01182
7.86E-107	1.037835069	0.818	0.384	2.52E-102	14 MYO3B
1.05E-66	1.034296233	0.462	0.183	3.36E-62	14 HMCN1
2.14E-235	1.025624314	0.725	0.179	6.87E-231	14 PHF21B
8.06E-114	1.021216187	0.66	0.246	2.59E-109	14 LIPA
1.38E-145	1.007538441	0.545	0.149	4.45E-141	14 HDAC9
2.74E-237	1.005415718	0.714	0.175	8.79E-233	14 F11
7.29E-121	0.998314165	0.975	0.595	2.34E-116	14 AC012409.2
2.98E-127	0.993504952	0.868	0.404	9.59E-123	14 ARHGEF38

7.09E-83	0.977202098	0.954	0.666	2.28E-78	14 NHS
2.88E-99	0.971027906	0.827	0.396	9.24E-95	14 EGF
2.78E-207	0.966954141	0.591	0.133	8.92E-203	14 SPATC1
5.15E-132	0.966715243	0.914	0.408	1.65E-127	14 LINC01320
4.19E-190	0.961346885	0.806	0.272	1.35E-185	14 MTURN
7.23E-168	0.954304934	0.725	0.23	2.32E-163	14 PANK1
3.22E-89	0.944708749	0.73	0.371	1.03E-84	14 SEC14L1
1.03E-174	0.940651069	0.705	0.216	3.31E-170	14 ARRDC3
5.59E-106	0.934851319	0.577	0.198	1.79E-101	14 PPFIA2
1.53E-146	0.931317001	0.571	0.159	4.90E-142	14 DENND2A
5.27E-65	0.929508542	0.97	0.736	1.69E-60	14 OXR1
2.35E-128	0.924458402	0.919	0.506	7.54E-124	14 PDE4DIP
1.30E-131	0.920112488	0.49	0.128	4.18E-127	14 SCHLAP1
2.19E-41	0.914482462	0.702	0.41	7.03E-37	14 ACSL4
1.25E-280	0.907459137	0.566	0.1	4.01E-276	14 DNAJC19
2.58E-68	0.906748301	0.571	0.243	8.28E-64	14 AC012593.1
6.05E-124	0.906467355	0.797	0.332	1.94E-119	14 PIK3R1
4.64E-68	0.905691623	0.825	0.48	1.49E-63	14 AC138305.1
1.08E-157	0.905045497	0.813	0.285	3.46E-153	14 ZNF385B
2.03E-36	0.897693813	0.46	0.237	6.52E-32	14 LINGO2
2.74E-134	0.895161467	0.653	0.216	8.79E-130	14 AL139383.1
1.41E-144	0.891411198	0.432	0.097	4.52E-140	14 AL050403.2
9.58E-203	0.89068516	0.7	0.188	3.08E-198	14 FAM184A
3.21E-134	0.888698997	0.624	0.198	1.03E-129	14 AP000317.2
1.43E-67	0.874655146	0.314	0.095	4.59E-63	14 OPCML
2.79E-106	0.855100477	0.944	0.5	8.97E-102	14 SKAP1
2.11E-113	0.853088032	0.39	0.096	6.78E-109	14 LINC01350
2.54E-108	0.850245965	0.758	0.314	8.15E-104	14 UPP2
1.71E-162	0.849846074	0.515	0.122	5.49E-158	14 IFIT5
1.16E-170	0.848894089	0.57	0.14	3.72E-166	14 GAD1
2.55E-85	0.843340671	0.877	0.484	8.19E-81	14 MFHAS1
1.37E-121	0.842960071	0.69	0.247	4.39E-117	14 MGLL
4.44E-124	0.842869064	0.834	0.361	1.42E-119	14 TMEM72-AS1
2.12E-196	0.842790363	0.578	0.129	6.80E-192	14 GUCY1A1
3.26E-79	0.837947299	0.878	0.498	1.05E-74	14 LRP1B
4.06E-141	0.836395339	0.765	0.265	1.31E-136	14 ZNF385D
1.31E-66	0.835030588	0.577	0.252	4.22E-62	14 SYT1
6.48E-98	0.83014288	0.831	0.413	2.08E-93	14 STXBP4
6.25E-201	0.827828231	0.587	0.13	2.01E-196	14 TCIM
1.68E-84	0.824274817	0.628	0.266	5.40E-80	14 MALRD1
2.86E-133	0.823123444	0.799	0.278	9.19E-129	14 SGIP1
1.31E-91	0.823077342	0.423	0.131	4.22E-87	14 KLRD1
4.40E-73	0.809948605	0.958	0.657	1.41E-68	14 LGR4
8.35E-115	0.80714007	0.665	0.242	2.68E-110	14 MYLK
4.94E-98	0.801888762	0.945	0.563	1.59E-93	14 TBC1D4
3.77E-90	0.801060605	0.975	0.662	1.21E-85	14 PPARGC1A
3.48E-103	0.800287426	0.914	0.5	1.12E-98	14 FXYD2
6.59E-120	0.799748212	0.917	0.469	2.12E-115	14 AC241952.1
6.73E-52	0.799419139	0.697	0.401	2.16E-47	14 PDZRN3
4.87E-177	0.796627481	0.688	0.195	1.56E-172	14 CKB
1.36E-100	0.793743444	0.67	0.259	4.38E-96	14 HOMER1

2.00E-91	0.791091486	0.979	0.671	6.41E-87	14 ARHGAP24
3.86E-102	0.789233946	0.864	0.435	1.24E-97	14 MPC1
9.15E-89	0.786977023	0.898	0.52	2.94E-84	14 PTPN14
2.47E-103	0.785117164	0.617	0.233	7.95E-99	14 CCNB1IP1
4.51E-151	0.783099055	0.714	0.23	1.45E-146	14 ADGRV1
3.90E-132	0.777254564	0.675	0.242	1.25E-127	14 AC083843.2
2.04E-96	0.776561251	1	0.879	6.55E-92	14 ESRRG
1.75E-62	0.775614244	0.91	0.592	5.61E-58	14 PTPN4
2.04E-56	0.768968806	0.864	0.569	6.57E-52	14 FOXO3
1.86E-99	0.768314187	0.61	0.229	5.98E-95	14 COL28A1
3.16E-77	0.765589269	0.884	0.533	1.02E-72	14 FAM13A
1.28E-97	0.764078821	0.921	0.547	4.11E-93	14 AC138409.2
6.86E-90	0.763863701	0.993	0.768	2.20E-85	14 FARP1
1.03E-118	0.762194426	0.414	0.104	3.30E-114	14 VLDLR-AS1
5.79E-91	0.75671184	0.734	0.321	1.86E-86	14 ZNF98
7.60E-78	0.754550116	0.78	0.388	2.44E-73	14 INTS6
1.34E-111	0.748964132	0.767	0.319	4.30E-107	14 NR2F2-AS1
8.50E-74	0.747891966	0.908	0.551	2.73E-69	14 ARID5B
1.44E-95	0.742421234	0.996	0.883	4.64E-91	14 IMMP2L
2.05E-92	0.739797432	0.323	0.079	6.58E-88	14 KCNMA1
6.88E-61	0.738647688	0.335	0.109	2.21E-56	14 KCTD16
2.98E-103	0.737771268	0.884	0.447	9.58E-99	14 AC245297.3
2.24E-117	0.732491224	0.751	0.308	7.20E-113	14 Z98752.3
6.67E-56	0.730507243	0.813	0.484	2.14E-51	14 SLC20A2
1.13E-112	0.728021764	0.494	0.145	3.62E-108	14 SCN7A
3.18E-110	0.728019164	0.52	0.16	1.02E-105	14 U91319.1
9.23E-90	0.727924926	0.963	0.524	2.97E-85	14 OSBPL3
7.54E-78	0.722248521	0.808	0.426	2.42E-73	14 CMTM4
4.40E-94	0.72114915	0.72	0.316	1.41E-89	14 GNG7
3.35E-168	0.71928247	0.3	0.044	1.08E-163	14 AC093523.1
8.87E-75	0.715405904	0.885	0.512	2.85E-70	14 TAPT1-AS1
2.77E-78	0.711874343	0.633	0.28	8.90E-74	14 TMEM164
6.52E-95	0.711862728	0.827	0.428	2.09E-90	14 GUSBP16
7.56E-164	0.708593407	0.462	0.1	2.43E-159	14 AC124947.1
6.48E-146	0.708424821	0.568	0.157	2.08E-141	14 STK32A
0	0.706189356	0.481	0.059	0	14 RADX
8.10E-141	0.705468796	0.688	0.226	2.60E-136	14 AL137009.1
7.12E-72	0.704024819	0.7	0.35	2.29E-67	14 GABARAPL1
7.75E-108	0.703359726	0.792	0.334	2.49E-103	14 MROH7
4.15E-90	0.694116555	0.663	0.292	1.33E-85	14 PLA2G12A
1.12E-86	0.691296664	0.723	0.341	3.59E-82	14 AHCYL1
1.53E-76	0.68841242	0.878	0.498	4.90E-72	14 ZHX3
1.95E-69	0.680860733	0.504	0.196	6.25E-65	14 AQP4-AS1
7.39E-69	0.680566417	0.951	0.546	2.37E-64	14 EFNA5
4.87E-54	0.679823017	0.663	0.355	1.57E-49	14 MOB3B
4.08E-120	0.67834065	0.379	0.088	1.31E-115	14 GABRB1
5.87E-84	0.676810138	0.723	0.326	1.89E-79	14 CECR2
2.38E-95	0.676538508	0.704	0.295	7.63E-91	14 SLC39A10
5.02E-95	0.675769774	0.922	0.53	1.61E-90	14 AK3
3.54E-79	0.675212054	0.882	0.501	1.14E-74	14 RALGPS1
6.64E-82	0.674702116	0.848	0.478	2.13E-77	14 FXR1

2.29E-147	0.673901699	0.524	0.133	7.35E-143	14 MFSD4A
1.37E-188	0.671282931	0.628	0.15	4.41E-184	14 TFAP2B
3.46E-88	0.671120087	0.855	0.457	1.11E-83	14 GUSBP2
2.16E-222	0.670356988	0.409	0.062	6.94E-218	14 AC087045.3
3.81E-64	0.668370377	0.937	0.583	1.22E-59	14 PDE7B
5.79E-143	0.667102364	0.601	0.173	1.86E-138	14 AGPAT4
2.74E-93	0.661724153	0.824	0.422	8.81E-89	14 CDH12
1.13E-114	0.660107514	0.413	0.103	3.64E-110	14 RBM20
1.74E-84	0.659933461	0.843	0.448	5.57E-80	14 C2CD5
1.72E-122	0.658249061	0.624	0.199	5.53E-118	14 PRKCQ
6.90E-103	0.657000434	0.626	0.227	2.22E-98	14 SLC2A13
2.15E-99	0.656129272	0.517	0.164	6.89E-95	14 SHISA9
9.45E-92	0.655235245	0.487	0.161	3.04E-87	14 LAMA1
2.09E-69	0.654674401	0.88	0.501	6.71E-65	14 PPP1CB
3.12E-174	0.653885827	0.367	0.061	1.00E-169	14 TSPAN8
2.06E-154	0.6525078	0.647	0.18	6.63E-150	14 PRKX
2.08E-108	0.651637034	0.522	0.16	6.68E-104	14 JAG1
3.82E-143	0.651503514	0.517	0.13	1.23E-138	14 AP000282.1
4.19E-78	0.6500269	0.751	0.339	1.34E-73	14 CADM1
1.72E-81	0.649899943	0.788	0.409	5.52E-77	14 CEP70
3.86E-76	0.649111743	0.889	0.5	1.24E-71	14 TMEM161B-AS1
1.06E-87	0.647680352	0.824	0.377	3.42E-83	14 SIM1
1.68E-107	0.646831364	0.711	0.279	5.40E-103	14 GSAP
3.04E-73	0.644532414	0.963	0.69	9.76E-69	14 GUSBP1
3.48E-72	0.643751846	0.989	0.78	1.12E-67	14 FGD4
2.73E-64	0.638402694	0.787	0.433	8.78E-60	14 UBE2E3
8.79E-62	0.633839409	0.767	0.414	2.82E-57	14 TMEM232
9.69E-89	0.631762716	0.563	0.206	3.11E-84	14 C12orf40
7.28E-72	0.631058754	1	0.776	2.34E-67	14 MECOM
1.55E-113	0.630639629	0.642	0.22	4.97E-109	14 FGF9
2.37E-91	0.628520406	0.848	0.422	7.63E-87	14 SCNN1A
3.86E-78	0.625108808	0.834	0.425	1.24E-73	14 ACOT11
5.30E-75	0.624844722	0.653	0.272	1.70E-70	14 CACNB4
1.90E-63	0.621607575	0.917	0.589	6.09E-59	14 WWC2
3.82E-65	0.618051835	0.993	0.782	1.23E-60	14 NAALADL2
1.31E-38	0.617636431	0.887	0.615	4.20E-34	14 STPG2
1.92E-92	0.615984763	0.688	0.282	6.18E-88	14 LINC00476
4.70E-129	0.614971661	0.511	0.138	1.51E-124	14 GMPR
3.88E-141	0.612196518	0.654	0.193	1.25E-136	14 KNG1
8.47E-61	0.611684511	0.952	0.678	2.72E-56	14 ABLIM1
1.27E-104	0.611432178	0.631	0.221	4.09E-100	14 KCNJ1
5.28E-60	0.610923967	0.787	0.432	1.70E-55	14 RASSF8
1.19E-74	0.610572892	0.921	0.565	3.83E-70	14 LUC7L2
2.04E-61	0.610198483	0.989	0.672	6.54E-57	14 AC005208.1
3.03E-101	0.608692291	0.589	0.204	9.74E-97	14 TLE1
2.75E-135	0.608367296	0.37	0.076	8.82E-131	14 LINC00113
4.35E-34	0.60710425	0.644	0.386	1.40E-29	14 SGO1-AS1
7.91E-127	0.606772315	0.503	0.141	2.54E-122	14 LINC02340
1.73E-56	0.605167091	0.755	0.427	5.56E-52	14 C1QTNF3-AMAC
3.12E-121	0.604870579	0.616	0.195	1.00E-116	14 RNF144B
1.81E-118	0.604350605	0.66	0.223	5.80E-114	14 SUS4

2.33E-74	0.60420782	0.811	0.424	7.47E-70	14 ATP2C1
2.55E-80	0.604053127	0.855	0.433	8.18E-76	14 KCNJ16
1.31E-53	0.603522504	0.524	0.234	4.21E-49	14 LINC01036
7.79E-61	0.602814913	0.788	0.411	2.50E-56	14 SLC16A7
4.14E-112	0.602448156	0.284	0.055	1.33E-107	14 AC004917.1
1.50E-114	0.601230399	0.638	0.213	4.82E-110	14 LINC00484
6.04E-111	0.600776861	0.575	0.184	1.94E-106	14 NR2F1-AS1
8.36E-99	0.598279402	0.721	0.312	2.69E-94	14 GUSBP13
1.20E-67	0.596587777	0.81	0.41	3.85E-63	14 ANK2
6.16E-57	0.59652878	0.43	0.167	1.98E-52	14 AP1S3
9.72E-75	0.596057621	0.416	0.141	3.12E-70	14 AC097515.1
1.14E-87	0.594764434	0.566	0.209	3.65E-83	14 FAM83B
1.02E-73	0.594222434	0.533	0.211	3.28E-69	14 TPST2
1.44E-76	0.593605544	0.832	0.426	4.64E-72	14 GCNT2
2.41E-116	0.588806681	0.681	0.244	7.75E-112	14 AC244669.2
8.32E-46	0.587141592	0.323	0.123	2.67E-41	14 RGS7
3.60E-61	0.586722492	0.767	0.404	1.16E-56	14 CACNA1D
1.03E-68	0.584042211	0.67	0.307	3.32E-64	14 MYOF
1.94E-70	0.582997917	0.501	0.193	6.24E-66	14 AC016705.2
4.16E-149	0.582617394	0.489	0.114	1.34E-144	14 KCNN3
1.77E-60	0.580659151	0.467	0.191	5.68E-56	14 PRANCR
1.90E-94	0.580165632	0.6	0.215	6.11E-90	14 MEF2C
2.19E-57	0.578754166	0.61	0.297	7.03E-53	14 AC021231.1
5.91E-79	0.578553849	0.43	0.139	1.90E-74	14 SHISA6
6.12E-85	0.577337367	0.774	0.361	1.97E-80	14 CFAP70
7.20E-82	0.576733943	0.711	0.322	2.31E-77	14 NCBP1
3.29E-61	0.576182887	0.617	0.286	1.06E-56	14 CYP7B1
1.19E-60	0.574402505	0.903	0.545	3.82E-56	14 ZBTB16
2.46E-112	0.574012728	0.571	0.188	7.89E-108	14 RAP2C
1.17E-51	0.573609417	0.963	0.71	3.75E-47	14 NCOA2
1.36E-57	0.572866562	0.75	0.409	4.37E-53	14 MPDZ
9.96E-99	0.572481722	0.619	0.232	3.20E-94	14 TTC7A
1.02E-61	0.570095236	0.887	0.543	3.27E-57	14 TSC22D2
5.10E-81	0.568727742	0.757	0.367	1.64E-76	14 OIP5-AS1
2.26E-54	0.568078666	0.411	0.159	7.26E-50	14 BDKRB2
1.06E-58	0.563499289	0.933	0.631	3.41E-54	14 USP25
4.98E-84	0.562446439	0.834	0.385	1.60E-79	14 DNMT3
3.04E-80	0.562243447	0.504	0.185	9.77E-76	14 MEF2C-AS1
3.49E-74	0.561672083	0.887	0.483	1.12E-69	14 HOXB3
2.21E-74	0.56150833	0.737	0.357	7.11E-70	14 MDM2
1.82E-51	0.561362197	0.958	0.676	5.84E-47	14 TFCEP2L1
7.19E-70	0.561093524	0.612	0.258	2.31E-65	14 SCD5
1.89E-67	0.560319149	0.843	0.472	6.07E-63	14 SLC25A12
1.14E-81	0.559782433	0.437	0.142	3.68E-77	14 KCNH1
4.32E-64	0.559553187	0.776	0.421	1.39E-59	14 FBXL4
1.35E-129	0.559126694	0.451	0.111	4.34E-125	14 MIR503HG
1.58E-143	0.558902353	0.437	0.097	5.07E-139	14 EHF
3.50E-98	0.556838362	0.517	0.175	1.12E-93	14 DDB1
2.00E-92	0.556692334	0.705	0.285	6.43E-88	14 CCND3
1.46E-87	0.554232371	0.388	0.113	4.69E-83	14 ARFGEF3
1.18E-59	0.553978684	0.961	0.652	3.78E-55	14 APP

1.03E-46	0.552458311	0.843	0.546	3.31E-42	14 LINC01278
5.57E-88	0.547966337	0.374	0.104	1.79E-83	14 GRIK2
1.27E-100	0.547335132	0.658	0.245	4.08E-96	14 AC018730.1
1.17E-76	0.545350193	0.734	0.353	3.76E-72	14 GUSBP17
4.01E-33	0.544313995	0.677	0.428	1.29E-28	14 VCL
1.71E-86	0.542557123	0.862	0.45	5.49E-82	14 DACH1
2.01E-25	0.541910555	0.781	0.56	6.46E-21	14 UVVAG
1.17E-99	0.541814308	0.616	0.225	3.75E-95	14 OVOL2
8.98E-51	0.539616388	0.928	0.63	2.89E-46	14 MBNL2
9.13E-138	0.538684103	0.646	0.194	2.93E-133	14 USP2
4.52E-252	0.538103227	0.27	0.023	1.45E-247	14 LINC02198
5.49E-60	0.5361037	0.822	0.464	1.76E-55	14 CLINT1
3.86E-57	0.536023102	0.644	0.311	1.24E-52	14 RPS6KA6
1.99E-40	0.534911623	0.7	0.388	6.38E-36	14 FGF13
7.44E-105	0.53407174	0.603	0.218	2.39E-100	14 GUSBP14
9.76E-46	0.533047461	0.651	0.348	3.13E-41	14 AASS
1.12E-44	0.532681072	0.928	0.666	3.60E-40	14 PTGER3
3.75E-45	0.53116384	0.792	0.463	1.20E-40	14 LINC01725
1.39E-54	0.529410387	0.944	0.613	4.45E-50	14 ACACB
1.25E-56	0.528656106	0.711	0.373	4.00E-52	14 KATNAL2
2.73E-39	0.528202661	0.325	0.133	8.76E-35	14 RIMS2
2.18E-25	0.527440047	0.354	0.183	7.01E-21	14 NKAIN2
3.10E-69	0.526947153	0.764	0.39	9.97E-65	14 GNAS
1.50E-139	0.526633297	0.436	0.097	4.81E-135	14 EPHA4
4.59E-38	0.525450776	0.709	0.418	1.47E-33	14 PDK4
3.49E-53	0.524218448	0.275	0.087	1.12E-48	14 SORCS3
6.26E-71	0.523923794	0.489	0.186	2.01E-66	14 ELOVL6
1.20E-152	0.523607981	0.328	0.055	3.85E-148	14 AP000695.2
7.49E-76	0.522824632	0.541	0.213	2.41E-71	14 AL132780.1
4.20E-88	0.52150469	0.697	0.286	1.35E-83	14 SH3BP4
2.39E-114	0.521357808	0.478	0.133	7.67E-110	14 MTCL1
2.24E-59	0.520952383	0.556	0.244	7.20E-55	14 CASC2
8.21E-40	0.520837521	0.898	0.612	2.64E-35	14 KCNIP4
1.72E-95	0.517045444	0.453	0.139	5.53E-91	14 RRAGD
5.48E-84	0.516646232	0.623	0.249	1.76E-79	14 LPIN1
3.80E-88	0.513046304	0.628	0.251	1.22E-83	14 AC073283.3
2.07E-45	0.511081495	0.623	0.328	6.63E-41	14 NMD3
1.44E-48	0.510747735	0.975	0.742	4.61E-44	14 ATXN1
3.90E-50	0.510119795	0.718	0.398	1.25E-45	14 MAGED1
2.12E-98	0.509598493	0.404	0.11	6.81E-94	14 ASRGL1
2.70E-74	0.504649239	0.563	0.222	8.68E-70	14 MAMDC2-AS1
7.14E-62	0.504644358	0.72	0.359	2.29E-57	14 CAPN2
2.01E-62	0.504348573	0.584	0.247	6.46E-58	14 AC068547.1
1.40E-51	0.503766235	0.624	0.315	4.49E-47	14 AMMECR1
1.38E-43	0.502923077	0.681	0.378	4.43E-39	14 RAP2C-AS1
7.36E-52	0.502745103	0.737	0.411	2.36E-47	14 EEA1
1.68E-81	0.502697541	0.755	0.35	5.40E-77	14 NAIP
2.12E-45	0.502273612	0.76	0.428	6.80E-41	14 SUCLG2-AS1
1.43E-105	0.501995815	0.287	0.059	4.60E-101	14 SYBU
8.69E-92	0.499671033	0.663	0.266	2.79E-87	14 NAIPP4
1.17E-66	0.499617642	0.545	0.23	3.77E-62	14 ACSS1

3.58E-183	0.498815647	0.411	0.073	1.15E-178	14 KCNJ10
2.05E-74	0.498449937	0.503	0.189	6.58E-70	14 PRDX6-AS1
5.37E-49	0.498319066	0.776	0.44	1.72E-44	14 ATG10
2.03E-58	0.496321976	0.751	0.392	6.53E-54	14 ACSS3
3.05E-63	0.494617098	0.506	0.203	9.78E-59	14 AC104596.1
7.44E-61	0.494401633	0.718	0.362	2.39E-56	14 CMC1
4.40E-54	0.494205618	0.624	0.309	1.41E-49	14 FSIP2
1.36E-63	0.492334634	0.563	0.254	4.38E-59	14 NBN
1.64E-59	0.492218069	0.52	0.221	5.25E-55	14 OXCT1
3.88E-61	0.491103978	0.453	0.176	1.25E-56	14 HLF
2.13E-56	0.48959672	0.877	0.52	6.85E-52	14 LIFR
3.57E-83	0.489013289	0.501	0.176	1.15E-78	14 C21orf62-AS1
7.23E-56	0.488895268	0.631	0.303	2.32E-51	14 MST1L
1.55E-62	0.487883896	0.693	0.336	4.96E-58	14 AC053527.2
1.22E-50	0.48720491	0.656	0.327	3.92E-46	14 AC040174.1
1.41E-77	0.485853852	0.358	0.108	4.52E-73	14 VAMP4
2.12E-42	0.485722685	0.811	0.508	6.82E-38	14 BCKDHB
5.92E-54	0.483119766	0.878	0.496	1.90E-49	14 TRIM2
4.94E-69	0.483069802	0.661	0.292	1.59E-64	14 PLEKHH2
7.29E-55	0.482331229	0.804	0.456	2.34E-50	14 ZFAND5
7.20E-46	0.482032989	0.993	0.818	2.31E-41	14 PCCA
2.88E-53	0.480946407	1	0.824	9.24E-49	14 MSI2
3.63E-110	0.478540388	0.323	0.069	1.17E-105	14 DIPK2A
7.49E-72	0.477342338	0.571	0.233	2.41E-67	14 OCLN
4.52E-67	0.477276024	0.578	0.247	1.45E-62	14 SGCE
1.67E-68	0.477131322	0.455	0.167	5.37E-64	14 SPATA1
7.10E-37	0.476754088	0.439	0.213	2.28E-32	14 SOX2-OT
2.18E-88	0.476479861	0.326	0.084	7.02E-84	14 ETV5
8.49E-94	0.475372946	0.42	0.122	2.73E-89	14 USP13
9.30E-90	0.475258702	0.476	0.148	2.99E-85	14 AC024022.1
1.36E-20	0.474386991	0.739	0.486	4.38E-16	14 SNX9
2.19E-103	0.473481673	0.392	0.101	7.02E-99	14 USP2-AS1
1.65E-59	0.472705412	0.501	0.21	5.31E-55	14 SMS
4.04E-36	0.471969363	0.938	0.687	1.30E-31	14 UBE2H
2.71E-45	0.471552753	0.469	0.216	8.72E-41	14 PPM1K
4.68E-83	0.471160988	0.575	0.22	1.50E-78	14 BDH1
3.19E-91	0.469925392	0.286	0.064	1.03E-86	14 AC092546.1
2.70E-56	0.46943094	0.924	0.609	8.67E-52	14 USP24
3.64E-46	0.468329042	0.792	0.46	1.17E-41	14 RBBP8
7.73E-95	0.467589358	0.422	0.121	2.48E-90	14 SYTL4
2.50E-55	0.467483926	0.996	0.835	8.02E-51	14 LRBA
4.94E-65	0.467129358	0.608	0.274	1.59E-60	14 LINC02241
2.49E-76	0.466724129	0.603	0.242	8.00E-72	14 KHDRBS3
2.45E-133	0.466556863	0.358	0.072	7.86E-129	14 IFIT1
2.77E-54	0.465569094	0.427	0.169	8.90E-50	14 AC138627.1
4.35E-65	0.464687561	0.668	0.315	1.40E-60	14 CTIF
1.02E-69	0.464014033	0.772	0.356	3.28E-65	14 GRHL2
1.41E-44	0.461503468	0.642	0.341	4.52E-40	14 DSE
3.82E-62	0.460951123	0.723	0.351	1.23E-57	14 SGPP2
1.58E-50	0.459156623	0.792	0.461	5.06E-46	14 PIAS2
1.77E-83	0.457020636	0.644	0.269	5.68E-79	14 GUSBP3

1.30E-46	0.456603605	0.702	0.391	4.19E-42	14 LNPEP
3.03E-28	0.456485169	0.362	0.178	9.73E-24	14 LINC01505
3.76E-37	0.455169336	0.605	0.332	1.21E-32	14 ZRANB2-AS2
2.33E-181	0.454962838	0.365	0.058	7.47E-177	14 TMEM171
2.03E-15	0.454886063	0.543	0.372	6.53E-11	14 SAMD4A
1.03E-42	0.453863131	0.922	0.628	3.31E-38	14 CLMN
4.81E-67	0.453205016	0.635	0.284	1.54E-62	14 LDHB
1.15E-70	0.452306902	0.437	0.154	3.70E-66	14 CCDC148-AS1
5.32E-55	0.452181345	0.536	0.24	1.71E-50	14 ATP6AP1L
1.72E-39	0.45160696	0.905	0.615	5.53E-35	14 AUH
2.79E-76	0.450271783	0.404	0.132	8.96E-72	14 TOB1
9.63E-50	0.449904451	0.836	0.507	3.09E-45	14 MIR29B2CHG
2.49E-33	0.448637826	0.885	0.606	7.99E-29	14 KLF12
1.99E-274	0.445557418	0.272	0.022	6.38E-270	14 ZDHHC8P1
6.98E-78	0.445085379	0.511	0.183	2.24E-73	14 ABHD17C
2.80E-194	0.444399875	0.309	0.04	9.01E-190	14 AL161782.1
2.65E-64	0.442748315	0.725	0.333	8.51E-60	14 BLNK
5.50E-68	0.439405768	0.571	0.244	1.77E-63	14 AC244669.1
1.20E-85	0.437767964	0.437	0.134	3.84E-81	14 GPR132
6.69E-47	0.437678206	0.778	0.443	2.15E-42	14 NNT
1.59E-68	0.436296066	0.434	0.154	5.10E-64	14 CHMP1B2P
2.59E-77	0.435323459	1	0.882	8.32E-73	14 MAGI1
2.29E-50	0.435096873	0.762	0.418	7.35E-46	14 DAAM1
4.76E-33	0.435051975	0.855	0.59	1.53E-28	14 DAB1
1.34E-43	0.432670765	0.855	0.54	4.31E-39	14 AC093752.1
9.32E-47	0.432407277	0.896	0.529	2.99E-42	14 MYO10
7.92E-80	0.432216074	0.485	0.171	2.55E-75	14 SMC5-AS1
1.39E-98	0.431895274	0.395	0.106	4.48E-94	14 CAPN13
4.74E-80	0.429383745	0.545	0.19	1.52E-75	14 AC078980.1
4.34E-28	0.427767887	0.661	0.408	1.40E-23	14 AL355499.2
2.33E-58	0.426622299	0.684	0.327	7.49E-54	14 CYB5A
4.95E-42	0.425974299	0.917	0.612	1.59E-37	14 SULT1C2
2.77E-43	0.425372973	0.369	0.15	8.88E-39	14 CCDC60
1.56E-32	0.424466505	0.399	0.19	5.02E-28	14 MIR646HG
4.24E-55	0.424452185	0.704	0.359	1.36E-50	14 RIC8B
9.44E-41	0.423370147	0.767	0.456	3.03E-36	14 FRK
3.15E-160	0.422623118	0.362	0.063	1.01E-155	14 DUSP9
8.91E-46	0.4224666	0.815	0.464	2.86E-41	14 SSBP2
1.39E-69	0.421773233	0.614	0.265	4.47E-65	14 XPA
4.34E-37	0.421137858	0.298	0.117	1.39E-32	14 NEK10
2.17E-100	0.421011587	0.317	0.071	6.98E-96	14 JAM2
2.28E-62	0.420791475	0.589	0.267	7.33E-58	14 AC138393.1
3.87E-50	0.419945432	0.586	0.284	1.24E-45	14 ANP32AP1
2.49E-94	0.419617935	0.508	0.168	7.99E-90	14 GUSBP15
1.43E-45	0.419299754	0.679	0.368	4.59E-41	14 SMIM8
4.38E-108	0.419271862	0.335	0.075	1.41E-103	14 IFITM10
2.57E-60	0.418756097	0.661	0.313	8.26E-56	14 KLF9
6.46E-47	0.418137898	0.757	0.419	2.07E-42	14 SLX4IP
3.71E-84	0.417712703	0.467	0.154	1.19E-79	14 LINC00958
1.43E-50	0.417178106	0.674	0.355	4.60E-46	14 DECR1
9.58E-65	0.416047411	0.681	0.32	3.08E-60	14 LRP6

3.51E-62	0.415910955	0.541	0.22	1.13E-57	14 PRDM16-DT
6.78E-35	0.415762401	0.407	0.195	2.18E-30	14 TUFT1
1.04E-49	0.415556146	0.376	0.146	3.34E-45	14 NEGR1
2.84E-56	0.414700261	0.466	0.191	9.11E-52	14 CIT
6.11E-23	0.414649412	0.354	0.186	1.96E-18	14 TAFA1
3.01E-71	0.41449581	0.374	0.118	9.65E-67	14 TMEM45B
5.75E-38	0.414202169	0.797	0.476	1.85E-33	14 GALNT18
4.17E-47	0.413351524	0.688	0.37	1.34E-42	14 AKAP6
2.33E-30	0.412580965	0.981	0.88	7.49E-26	14 WWOX
3.53E-59	0.412455	0.638	0.274	1.13E-54	14 CA10
2.55E-43	0.412109083	0.76	0.457	8.19E-39	14 GPATCH2L
4.94E-41	0.411322492	0.534	0.267	1.59E-36	14 EPM2A
8.78E-74	0.409641257	0.623	0.259	2.82E-69	14 SGK2
2.88E-59	0.409015855	0.268	0.077	9.25E-55	14 CRACDL
3.75E-67	0.408487328	0.397	0.136	1.20E-62	14 SMCO4
5.69E-42	0.408173899	0.794	0.475	1.83E-37	14 STRBP
3.89E-36	0.408155633	0.989	0.797	1.25E-31	14 SOX6
2.04E-27	0.407739243	0.781	0.51	6.55E-23	14 MAN1A1
1.66E-62	0.40706903	0.728	0.355	5.33E-58	14 GOT1
1.49E-72	0.406350896	0.446	0.156	4.80E-68	14 SLC6A16
3.26E-57	0.406001326	0.711	0.36	1.05E-52	14 BCL2L14
1.45E-80	0.405503561	0.48	0.166	4.67E-76	14 AC007637.1
2.37E-51	0.405502496	0.58	0.281	7.63E-47	14 LARS2
6.54E-40	0.4037762	0.785	0.477	2.10E-35	14 USP45
8.60E-35	0.402870305	0.956	0.699	2.76E-30	14 VWAS
3.29E-64	0.402114424	0.425	0.154	1.06E-59	14 KCNAB1
6.96E-59	0.401699123	0.587	0.264	2.23E-54	14 GSTO2
1.10E-29	0.401421056	0.437	0.227	3.53E-25	14 LNC-LBCS
1.93E-59	0.400826327	0.587	0.263	6.18E-55	14 DTWD1
5.23E-56	0.40081596	0.61	0.278	1.68E-51	14 FAM227B
4.16E-55	0.399996389	0.584	0.275	1.34E-50	14 LETMD1
6.87E-36	0.399994003	0.459	0.224	2.21E-31	14 AL359710.1
3.49E-28	0.398858797	0.66	0.402	1.12E-23	14 DPH6-DT
1.62E-47	0.398790525	0.772	0.448	5.19E-43	14 SRSF10
1.84E-119	0.398698499	0.319	0.063	5.90E-115	14 LINC02437
1.62E-43	0.398694713	0.769	0.443	5.21E-39	14 NFYC
2.71E-32	0.396113926	0.914	0.66	8.70E-28	14 RASA1
5.04E-41	0.395552911	0.51	0.246	1.62E-36	14 MARK1
2.74E-28	0.394636582	0.596	0.351	8.79E-24	14 RNLS
2.67E-33	0.393084761	0.811	0.528	8.57E-29	14 VGLL4
3.01E-37	0.392902614	0.429	0.202	9.68E-33	14 LEKR1
7.15E-26	0.390345627	0.319	0.154	2.30E-21	14 STEAP2-AS1
4.94E-51	0.390309047	0.686	0.349	1.59E-46	14 PPP1R13B
2.28E-46	0.390227751	0.582	0.291	7.33E-42	14 ATP6V0E1
4.15E-83	0.389109274	0.552	0.202	1.33E-78	14 NAIPP2
7.41E-80	0.388897293	0.25	0.056	2.38E-75	14 PLXNA4
8.61E-62	0.388712232	0.273	0.078	2.77E-57	14 COL14A1
8.90E-58	0.388647128	0.473	0.191	2.86E-53	14 SVOPL
7.54E-33	0.388323739	0.545	0.289	2.42E-28	14 PBX3
3.01E-50	0.387770733	0.427	0.174	9.67E-46	14 RPL34-DT
2.84E-69	0.387557644	0.695	0.311	9.13E-65	14 DNASE1

7.91E-49	0.387218602	0.755	0.413	2.54E-44	14 TBC1D8
1.45E-37	0.386228446	0.767	0.464	4.67E-33	14 ZMYND8
1.87E-37	0.385746004	0.829	0.527	6.00E-33	14 NINL
5.53E-44	0.383718585	0.723	0.408	1.77E-39	14 ZNF277
1.74E-46	0.382821855	0.755	0.435	5.58E-42	14 SF1
1.95E-69	0.382429107	0.476	0.173	6.27E-65	14 ESRP1
3.77E-40	0.381391919	0.665	0.372	1.21E-35	14 MIER1
3.56E-53	0.379822963	0.797	0.44	1.14E-48	14 TTC14
1.00E-29	0.379749975	0.836	0.568	3.23E-25	14 CNKSR3
4.91E-29	0.378548501	0.882	0.609	1.58E-24	14 MNAT1
1.99E-31	0.378504444	0.578	0.328	6.40E-27	14 PLS3
4.97E-48	0.378444165	0.818	0.454	1.60E-43	14 TOM1L2
3.63E-84	0.378081026	0.365	0.102	1.17E-79	14 STOX1
2.26E-43	0.377960747	0.693	0.365	7.27E-39	14 ARNT2
6.15E-99	0.377613928	0.582	0.194	1.98E-94	14 TMEM72
9.72E-37	0.37721038	0.503	0.254	3.12E-32	14 PRRG1
3.58E-58	0.377075625	0.39	0.141	1.15E-53	14 LINC00240
6.66E-41	0.37688024	0.466	0.215	2.14E-36	14 NLGN4Y
1.29E-37	0.376661916	0.801	0.488	4.14E-33	14 SIL1
1.18E-44	0.375379527	0.693	0.373	3.78E-40	14 UQCRC2
1.69E-21	0.374060958	0.635	0.416	5.42E-17	14 GHR
9.56E-36	0.373353394	0.785	0.48	3.07E-31	14 MTX2
5.19E-52	0.373247459	0.637	0.31	1.67E-47	14 RAB30-DT
5.59E-50	0.372422747	0.693	0.356	1.80E-45	14 CHKA
6.73E-63	0.372130393	0.538	0.221	2.16E-58	14 TFEB
2.43E-32	0.371842092	0.503	0.259	7.79E-28	14 LINC01266
5.36E-37	0.371203173	0.69	0.388	1.72E-32	14 ZDHHC14
7.75E-33	0.370694435	0.878	0.568	2.49E-28	14 FAM160A1
1.44E-41	0.369684388	0.66	0.358	4.62E-37	14 IFRD1
3.90E-32	0.36965023	0.866	0.588	1.25E-27	14 LYPLAL1
2.42E-54	0.369630299	0.605	0.279	7.77E-50	14 TRMT9B
4.84E-43	0.369392477	0.718	0.386	1.55E-38	14 SLC3A1
2.65E-32	0.368718542	0.834	0.543	8.50E-28	14 DAPK1
3.10E-49	0.368644152	0.402	0.16	9.97E-45	14 PCDHA1
7.20E-41	0.368472479	0.321	0.125	2.31E-36	14 AC007161.3
2.19E-12	0.368362503	0.307	0.189	7.04E-08	14 FOXP2
1.78E-40	0.368268302	0.713	0.4	5.71E-36	14 LINC00271
4.51E-47	0.368131015	0.501	0.236	1.45E-42	14 NHLRC3
1.34E-77	0.368088491	0.316	0.084	4.30E-73	14 AC016526.1
8.47E-23	0.367721487	0.933	0.68	2.72E-18	14 KAZN
1.18E-50	0.367183919	0.727	0.39	3.78E-46	14 RNF10
7.98E-39	0.366655606	0.714	0.408	2.56E-34	14 WARS2-AS1
6.96E-30	0.366392773	0.815	0.53	2.24E-25	14 MRPL33
9.39E-38	0.365278376	0.608	0.329	3.02E-33	14 GLUD1
4.70E-52	0.36518547	0.707	0.368	1.51E-47	14 ARHGAP26
5.61E-27	0.364735653	0.884	0.627	1.80E-22	14 LRCH1
1.26E-33	0.364728671	0.974	0.778	4.06E-29	14 MYO9A
3.39E-34	0.364583098	0.785	0.481	1.09E-29	14 SHLD2
1.31E-67	0.364181895	0.277	0.074	4.22E-63	14 CRB1
1.55E-25	0.364109781	0.921	0.645	4.99E-21	14 NFIB
1.31E-41	0.364040248	0.46	0.218	4.21E-37	14 FAM199X

8.22E-60	0.362642139	0.531	0.215	2.64E-55	14 SPAG17
1.15E-41	0.362247013	0.386	0.165	3.69E-37	14 FTCDNL1
1.99E-32	0.362003091	0.882	0.594	6.38E-28	14 TENT2
6.02E-28	0.361718998	0.7	0.43	1.93E-23	14 AL078459.1
3.84E-48	0.361700692	0.732	0.39	1.23E-43	14 PCNX2
1.38E-38	0.361543037	0.813	0.494	4.42E-34	14 PSME4
6.21E-34	0.360948243	0.866	0.572	2.00E-29	14 SPIN1
6.60E-75	0.360837255	0.367	0.112	2.12E-70	14 TMED7-TICAM2
3.86E-27	0.360311358	0.866	0.594	1.24E-22	14 CTBP2
6.38E-30	0.359194384	0.811	0.523	2.05E-25	14 AF117829.1
1.00E-38	0.359177413	0.748	0.44	3.22E-34	14 PREPL
6.58E-38	0.35903604	0.653	0.359	2.11E-33	14 NTN4
2.25E-44	0.358629892	0.697	0.375	7.24E-40	14 IMMPL
1.03E-69	0.358584897	0.457	0.166	3.29E-65	14 ACYP1
3.77E-55	0.3585743	0.61	0.288	1.21E-50	14 WDR91
1.78E-46	0.358308239	0.683	0.358	5.71E-42	14 ANXA11
7.36E-88	0.357632131	0.526	0.173	2.36E-83	14 F11-AS1
1.21E-52	0.357052498	0.829	0.433	3.88E-48	14 PRDM16
4.21E-25	0.356639932	0.961	0.759	1.35E-20	14 KIAA1217
6.99E-49	0.355776087	0.663	0.34	2.25E-44	14 ACVR1B
5.32E-11	0.354622039	0.314	0.19	1.71E-06	14 MIR222HG
1.09E-39	0.354215578	0.257	0.09	3.49E-35	14 DOK5
6.80E-116	0.354042905	0.351	0.077	2.19E-111	14 SLC25A4
2.96E-42	0.353966489	0.434	0.195	9.50E-38	14 MBNL3
1.31E-83	0.353082058	0.293	0.071	4.20E-79	14 GSTM5
2.22E-24	0.352744125	0.804	0.55	7.12E-20	14 AEBP2
7.71E-20	0.352358426	0.751	0.527	2.48E-15	14 MAML3
5.58E-51	0.350304279	0.67	0.331	1.79E-46	14 ZNF532
4.62E-34	0.349889962	0.813	0.523	1.48E-29	14 TDRD3
1.38E-49	0.349447678	0.467	0.202	4.42E-45	14 CD47
1.79E-27	0.349253327	0.72	0.454	5.73E-23	14 PCGF5
6.09E-40	0.348891398	0.818	0.476	1.95E-35	14 GNG12-AS1
7.31E-28	0.347608816	0.787	0.52	2.35E-23	14 GRAMD2B
3.84E-26	0.34643466	0.591	0.351	1.23E-21	14 SCML1
5.36E-54	0.346425138	0.28	0.085	1.72E-49	14 EYA1
1.36E-46	0.346331887	0.7	0.37	4.35E-42	14 MAMDC2
1.11E-28	0.34597721	0.409	0.203	3.58E-24	14 AC004870.4
8.92E-57	0.34513891	0.413	0.157	2.87E-52	14 SSR3
1.81E-45	0.34505977	0.667	0.345	5.83E-41	14 GABPB1-AS1
1.33E-30	0.344877459	0.804	0.506	4.26E-26	14 DENND1B
1.13E-53	0.344820418	0.608	0.284	3.62E-49	14 ADHFE1
1.28E-56	0.344528428	0.474	0.192	4.12E-52	14 EPN1
9.38E-39	0.344321012	0.785	0.467	3.01E-34	14 DMTF1
4.52E-32	0.344201312	0.728	0.445	1.45E-27	14 AP2B1
4.74E-52	0.344053541	0.381	0.145	1.52E-47	14 DLG3
5.19E-44	0.343572534	0.466	0.203	1.67E-39	14 MAOA
1.55E-54	0.343345021	0.48	0.197	4.96E-50	14 GOLM1
2.28E-44	0.343061614	0.601	0.301	7.31E-40	14 CYS1
1.45E-35	0.342764066	0.623	0.333	4.66E-31	14 FREM2
1.03E-54	0.341240183	0.407	0.156	3.30E-50	14 AL158066.1
3.50E-44	0.341120066	0.578	0.291	1.12E-39	14 ETFDH

2.02E-60	0.340396947	0.293	0.087	6.49E-56	14 LTBP2
2.78E-48	0.339492771	0.511	0.229	8.94E-44	14 STK17A
1.29E-69	0.339456205	0.303	0.085	4.14E-65	14 MTMR7
1.08E-25	0.339261768	0.901	0.62	3.47E-21	14 ANKRD28
1.62E-38	0.337668382	0.64	0.356	5.21E-34	14 STAM2
3.16E-83	0.337604227	0.284	0.067	1.02E-78	14 PBX4
6.05E-26	0.337489819	0.67	0.417	1.94E-21	14 ERICH1
1.66E-69	0.336464819	0.353	0.109	5.34E-65	14 ZNF682
4.97E-31	0.335439252	0.688	0.411	1.60E-26	14 LINC01362
2.78E-46	0.334990196	0.799	0.426	8.94E-42	14 OSBPL10
2.12E-29	0.334545215	0.81	0.512	6.79E-25	14 AC068205.2
1.42E-52	0.3334447	0.388	0.148	4.55E-48	14 AL137058.2
9.08E-40	0.333343776	0.54	0.271	2.92E-35	14 CDKL5
2.28E-35	0.333323589	0.822	0.516	7.33E-31	14 DICER1
4.51E-78	0.332997982	0.379	0.114	1.45E-73	14 PRXL2A
1.82E-37	0.332975361	0.952	0.695	5.86E-33	14 APBB2
1.18E-38	0.332689889	0.526	0.268	3.79E-34	14 ZNF736
3.89E-40	0.332118507	0.995	0.827	1.25E-35	14 PTPRG
5.58E-37	0.330947135	0.714	0.405	1.79E-32	14 NDUFS4
1.70E-40	0.330002891	0.302	0.113	5.47E-36	14 AL355499.1
6.27E-33	0.329961893	0.984	0.711	2.01E-28	14 ADAMTS9-AS2
4.52E-48	0.32968704	0.506	0.235	1.45E-43	14 GTF2H2C
8.53E-39	0.329269734	0.563	0.287	2.74E-34	14 BDNF-AS
1.64E-43	0.328470835	0.67	0.354	5.26E-39	14 SPPL2A
2.11E-45	0.327567198	0.501	0.224	6.78E-41	14 RNF24
2.35E-62	0.327504174	0.741	0.366	7.54E-58	14 TGFB2
1.08E-16	0.327472581	0.487	0.301	3.48E-12	14 ALCAM
1.83E-40	0.327187203	0.631	0.343	5.88E-36	14 ATP5F1C
1.61E-57	0.327035352	0.388	0.142	5.17E-53	14 GLRX
3.89E-37	0.32688539	0.549	0.284	1.25E-32	14 COX10
2.00E-33	0.326475357	0.681	0.397	6.42E-29	14 URI1
5.11E-86	0.326077894	0.416	0.124	1.64E-81	14 PGAP6
4.99E-23	0.325108268	0.998	0.874	1.60E-18	14 AL136164.2
2.74E-33	0.324262464	0.513	0.269	8.79E-29	14 LINC00472
1.10E-37	0.324209326	0.54	0.277	3.53E-33	14 SORT1
2.52E-43	0.323790206	0.575	0.281	8.08E-39	14 PIP5K1B
1.08E-39	0.32336493	0.764	0.439	3.46E-35	14 AC132008.2
7.78E-45	0.322573193	0.395	0.159	2.50E-40	14 IRS1
6.47E-45	0.322401831	0.76	0.413	2.08E-40	14 KCNQ1
3.29E-53	0.321588671	0.686	0.34	1.06E-48	14 GPI
5.13E-63	0.321542986	0.354	0.115	1.65E-58	14 SLC12A8
1.51E-46	0.320363866	0.333	0.124	4.85E-42	14 MFAP3L
4.85E-39	0.320060135	0.372	0.158	1.56E-34	14 KCNK1
4.81E-52	0.31950444	0.467	0.195	1.54E-47	14 TBC1D24
3.11E-33	0.31937174	0.704	0.424	9.99E-29	14 DNML
3.89E-44	0.31864937	0.506	0.233	1.25E-39	14 IDH2
4.22E-29	0.318385773	0.73	0.469	1.36E-24	14 HMGB1
7.53E-88	0.318215645	0.33	0.084	2.42E-83	14 AC004982.2
6.15E-56	0.318097849	0.771	0.406	1.97E-51	14 ITGA2
6.18E-48	0.317206214	0.474	0.206	1.98E-43	14 HPRT1
3.07E-28	0.316682601	0.813	0.529	9.86E-24	14 PLCXD2

5.19E-33	0.316467814	0.831	0.525	1.67E-28	14 TRA2A
3.76E-67	0.314551247	0.332	0.1	1.21E-62	14 FECH
1.77E-60	0.314206109	0.559	0.237	5.70E-56	14 PLIN5
1.33E-37	0.313336144	0.878	0.564	4.27E-33	14 CFLAR
2.12E-62	0.313133397	0.552	0.229	6.81E-58	14 PXN
1.07E-47	0.312778936	0.443	0.188	3.45E-43	14 AL160269.1
2.29E-39	0.312547643	0.55	0.273	7.35E-35	14 ANKRD6
9.39E-34	0.312521091	0.746	0.443	3.01E-29	14 TFCP2
2.60E-40	0.312437346	0.587	0.297	8.35E-36	14 VAX2
8.69E-56	0.312369776	0.39	0.146	2.79E-51	14 SEPTIN7P9
3.69E-67	0.311813071	0.27	0.072	1.19E-62	14 SETD7
5.38E-55	0.311463219	0.459	0.185	1.73E-50	14 DAG1
1.85E-46	0.311039273	0.388	0.158	5.96E-42	14 PROSER1
8.85E-45	0.310909726	0.635	0.323	2.84E-40	14 FAM126B
3.56E-57	0.310288932	0.423	0.163	1.14E-52	14 CLN5
6.47E-49	0.310084917	0.328	0.118	2.08E-44	14 DEUP1
1.61E-31	0.30911937	0.855	0.55	5.17E-27	14 PCMTD1
2.78E-27	0.308903608	0.48	0.256	8.93E-23	14 CTNNAL1
6.99E-40	0.308455734	0.753	0.442	2.24E-35	14 LRRC37A4P
7.02E-42	0.308309384	0.34	0.133	2.26E-37	14 WDR17
7.11E-38	0.307929069	0.409	0.18	2.28E-33	14 AP002518.2
3.18E-17	0.307534138	0.933	0.738	1.02E-12	14 MBNL1
3.27E-43	0.307284232	0.508	0.24	1.05E-38	14 ZNF680
6.62E-43	0.307136367	0.621	0.299	2.13E-38	14 NR3C1
6.48E-34	0.30704972	0.377	0.172	2.08E-29	14 AC011346.1
3.19E-27	0.306629413	0.85	0.562	1.02E-22	14 MARCHF6
4.27E-46	0.305355703	0.919	0.553	1.37E-41	14 COL4A3
1.99E-68	0.304741166	0.307	0.088	6.41E-64	14 SULT1C3
2.80E-54	0.304332793	0.443	0.174	9.00E-50	14 LINC02062
2.21E-41	0.304285176	0.675	0.356	7.10E-37	14 NOTCH2
3.97E-43	0.303876689	0.455	0.203	1.27E-38	14 MST1P2
2.88E-32	0.302811214	0.305	0.129	9.24E-28	14 POT1-AS1
1.11E-27	0.302799221	0.705	0.442	3.58E-23	14 STXBP5
7.10E-32	0.302793878	0.598	0.326	2.28E-27	14 CFAP221
1.51E-30	0.302526739	0.383	0.184	4.85E-26	14 KLHL32
1.03E-34	0.302137005	0.578	0.307	3.29E-30	14 MICU3
2.45E-56	0.30102231	0.279	0.084	7.86E-52	14 CERKL
1.57E-36	0.300421688	0.455	0.22	5.03E-32	14 CPNE3
1.79E-39	0.3002246	0.305	0.118	5.74E-35	14 MRPS30-DT
1.87E-78	0.300045223	0.36	0.103	6.02E-74	14 SALL1
4.87E-21	0.299975908	0.273	0.135	1.56E-16	14 LINC01697
2.57E-28	0.299697085	0.727	0.45	8.26E-24	14 ZNF618
3.38E-27	0.299539112	0.866	0.597	1.09E-22	14 ZNF518A
7.16E-34	0.298656887	0.527	0.282	2.30E-29	14 MYEF2
2.88E-33	0.298500626	0.374	0.17	9.25E-29	14 THSD7B
4.61E-46	0.298277148	0.45	0.191	1.48E-41	14 RPS6KA5
4.04E-32	0.29791752	0.901	0.574	1.30E-27	14 VAV3
8.61E-58	0.297694505	0.594	0.256	2.77E-53	14 PLEKHG1
3.35E-39	0.297371101	0.582	0.297	1.08E-34	14 ZNRF2P2
3.98E-34	0.297326372	0.827	0.502	1.28E-29	14 TANC2
3.50E-21	0.297139938	0.921	0.685	1.12E-16	14 NUMB

5.34E-33	0.29713006	0.596	0.327	1.71E-28	14 AC046134.2
8.65E-36	0.297117019	0.626	0.337	2.78E-31	14 ACSL3
2.34E-40	0.295808497	0.534	0.268	7.50E-36	14 PHF8
2.01E-30	0.295541837	0.73	0.445	6.47E-26	14 LCLAT1
2.39E-45	0.29546905	0.295	0.104	7.69E-41	14 COL5A2
4.07E-32	0.295397747	0.422	0.206	1.31E-27	14 LIX1-AS1
1.54E-39	0.294822332	0.48	0.23	4.93E-35	14 TOR1AIP2
2.80E-52	0.294487023	0.619	0.291	8.99E-48	14 AC138207.8
1.15E-32	0.294407419	0.753	0.455	3.71E-28	14 DHX15
1.01E-49	0.293872701	0.319	0.11	3.23E-45	14 AC008629.1
5.46E-54	0.29332385	0.273	0.083	1.75E-49	14 ST3GAL5
3.10E-32	0.29305643	0.831	0.521	9.96E-28	14 IFT88
9.26E-30	0.292778556	0.596	0.339	2.97E-25	14 NDFIP1
2.39E-36	0.291970748	0.656	0.362	7.68E-32	14 PNPLA8
6.79E-80	0.291933174	0.303	0.076	2.18E-75	14 PP7080
1.78E-30	0.291884381	0.254	0.099	5.70E-26	14 LINC01055
2.40E-25	0.291775883	0.871	0.611	7.71E-21	14 DPH6
1.07E-24	0.291420774	0.556	0.325	3.45E-20	14 AC009690.2
2.41E-61	0.29116286	0.293	0.086	7.73E-57	14 AL159163.1
1.25E-27	0.291107963	0.989	0.792	4.00E-23	14 MAML2
5.43E-35	0.290989944	0.792	0.474	1.74E-30	14 PAPOLA
2.94E-37	0.290511639	0.557	0.288	9.44E-33	14 GTF2H2B
4.09E-34	0.290229397	0.72	0.422	1.31E-29	14 FRS2
1.99E-35	0.289937644	0.448	0.218	6.40E-31	14 TXNRD1
7.09E-39	0.289631294	0.691	0.389	2.28E-34	14 AC015813.2
2.87E-41	0.289333656	0.649	0.332	9.21E-37	14 AL139807.1
2.41E-37	0.289234777	0.506	0.255	7.75E-33	14 TFB1M
3.68E-31	0.289085873	0.538	0.296	1.18E-26	14 ARFGAP3
1.27E-50	0.289068364	0.3	0.101	4.07E-46	14 NAAA
2.99E-24	0.287731915	0.891	0.581	9.62E-20	14 TRHDE
3.77E-51	0.287671884	0.319	0.11	1.21E-46	14 THBS4
9.27E-34	0.287581052	0.817	0.509	2.98E-29	14 LLGL2
2.31E-63	0.287561305	0.266	0.072	7.42E-59	14 EFHC2
3.26E-47	0.287237909	0.519	0.234	1.05E-42	14 ZNF138
6.16E-56	0.286759425	0.691	0.33	1.98E-51	14 ST3GAL6
1.57E-49	0.286065344	0.323	0.115	5.06E-45	14 TMMEM209
2.40E-34	0.28586332	0.683	0.386	7.70E-30	14 BMS1P1
2.57E-38	0.285268541	0.612	0.321	8.25E-34	14 PITPNM2
3.16E-33	0.284972327	0.455	0.226	1.02E-28	14 OSBP2
5.97E-32	0.284682865	0.656	0.372	1.92E-27	14 CDKL1
5.30E-36	0.284170444	0.436	0.206	1.70E-31	14 MRPS9
8.42E-23	0.283776999	0.37	0.195	2.70E-18	14 LINC00882
1.95E-29	0.283424575	0.832	0.569	6.27E-25	14 CRIM1
1.79E-31	0.283285078	0.598	0.335	5.75E-27	14 ASPH
6.56E-38	0.283268749	0.467	0.227	2.11E-33	14 PEX3
6.83E-55	0.282903309	0.254	0.074	2.19E-50	14 EPDR1
2.25E-18	0.282426977	0.896	0.668	7.23E-14	14 PDE8A
3.84E-27	0.281070508	0.61	0.366	1.23E-22	14 KLHL24
2.91E-26	0.280768134	0.774	0.492	9.35E-22	14 CCDC18-AS1
2.86E-35	0.280631204	0.679	0.385	9.19E-31	14 AFTPH
4.20E-40	0.280526322	0.679	0.363	1.35E-35	14 CCDC66

3.44E-43	0.279642459	0.409	0.176	1.10E-38	14 COX11
1.00E-43	0.279195105	0.335	0.127	3.22E-39	14 LINC01550
4.63E-36	0.278571559	0.67	0.372	1.49E-31	14 CLCN3
1.30E-25	0.278473047	0.746	0.467	4.16E-21	14 COBL
2.96E-28	0.278260979	0.594	0.346	9.49E-24	14 SUSD6
1.68E-38	0.278081762	0.386	0.169	5.40E-34	14 LINC00467
2.07E-37	0.27789439	0.61	0.326	6.65E-33	14 MFF
2.57E-36	0.27789361	0.4	0.182	8.25E-32	14 CEP120
1.99E-39	0.277542299	0.28	0.104	6.40E-35	14 B4GALT6
3.83E-19	0.277385347	0.896	0.657	1.23E-14	14 ZCCHC7
3.77E-85	0.276994628	0.705	0.275	1.21E-80	14 ADAMTS17
2.73E-17	0.276641217	0.656	0.432	8.76E-13	14 KCNJ3
8.82E-27	0.27635001	0.679	0.416	2.83E-22	14 R3HDM1
1.31E-54	0.276160722	0.374	0.136	4.20E-50	14 AC099811.2
7.81E-50	0.2759515	0.397	0.156	2.51E-45	14 AKAP1
3.30E-31	0.275798299	0.785	0.486	1.06E-26	14 CLEC16A
2.19E-23	0.275562003	0.903	0.647	7.04E-19	14 AP3B1
9.83E-33	0.275200723	0.323	0.139	3.16E-28	14 SLC16A5
1.87E-34	0.274948522	0.665	0.369	6.01E-30	14 CU633904.1
5.95E-31	0.274829968	0.633	0.362	1.91E-26	14 ENSA
1.72E-36	0.274481811	0.515	0.259	5.53E-32	14 IMPA2
1.21E-24	0.274421201	0.607	0.363	3.89E-20	14 DGKH
2.38E-44	0.273928265	0.277	0.095	7.64E-40	14 AC008892.1
1.55E-16	0.273782592	0.423	0.255	4.97E-12	14 THEM4
6.18E-23	0.273560628	0.998	0.891	1.98E-18	14 RORA
8.19E-25	0.273485934	0.392	0.206	2.63E-20	14 RGS5
5.40E-26	0.27334632	0.492	0.272	1.73E-21	14 STX18-AS1
9.29E-28	0.27327297	0.455	0.239	2.98E-23	14 GDAP1
5.29E-27	0.273195351	0.713	0.435	1.70E-22	14 CCDC171
7.19E-23	0.273127203	0.758	0.492	2.31E-18	14 MLLT3
9.11E-30	0.272630168	0.956	0.685	2.93E-25	14 AGLB4
5.50E-39	0.27200507	0.577	0.298	1.77E-34	14 THUMPD3-AS1
1.38E-15	0.271772293	0.252	0.132	4.42E-11	14 AC012501.2
2.44E-25	0.271676296	0.256	0.111	7.83E-21	14 AC024901.1
2.54E-32	0.271284348	0.753	0.444	8.17E-28	14 CPSF6
1.83E-30	0.270971827	0.261	0.106	5.88E-26	14 RGS17
6.73E-28	0.270878294	0.621	0.365	2.16E-23	14 VRK2
3.02E-46	0.270729632	0.349	0.134	9.69E-42	14 ATP1A1-AS1
2.91E-28	0.270610685	0.683	0.417	9.34E-24	14 LINC01004
1.55E-71	0.270487022	0.277	0.071	4.98E-67	14 ZNF90
9.07E-18	0.269900043	0.511	0.318	2.91E-13	14 FGFR2
8.66E-28	0.269750143	0.432	0.217	2.78E-23	14 SLC22A2
1.56E-34	0.269599612	0.478	0.241	5.00E-30	14 DDAH1
1.40E-28	0.269558087	0.649	0.381	4.49E-24	14 CARMIL1
1.42E-58	0.269194692	0.395	0.136	4.55E-54	14 CPXM2
5.10E-28	0.269163697	0.596	0.348	1.64E-23	14 STAT5B
3.66E-28	0.268846391	0.605	0.35	1.17E-23	14 ADGRA3
1.48E-38	0.268457286	0.561	0.285	4.74E-34	14 GTF2H2
1.20E-36	0.267607703	0.347	0.147	3.86E-32	14 TSPOAP1-AS1
4.78E-38	0.267256604	0.714	0.396	1.54E-33	14 MCCC1
2.70E-14	0.266689023	0.815	0.599	8.67E-10	14 FOXO1

5.43E-35	0.266664542	0.547	0.284	1.74E-30	14 DSTN
1.91E-32	0.266478043	0.51	0.265	6.12E-28	14 KAT2B
1.29E-41	0.26625722	0.392	0.164	4.16E-37	14 ZNF337-AS1
6.23E-30	0.266045346	0.261	0.106	2.00E-25	14 C12orf60
5.73E-36	0.265883182	0.626	0.345	1.84E-31	14 ZNF493
3.62E-35	0.26583194	0.554	0.292	1.16E-30	14 LINC00174
1.72E-31	0.265705723	0.691	0.405	5.53E-27	14 NBPF26
4.74E-61	0.265620865	0.298	0.088	1.52E-56	14 AC007325.2
2.20E-28	0.265225705	0.797	0.512	7.08E-24	14 UNC13B
4.16E-34	0.265065426	0.591	0.315	1.34E-29	14 ETFA
8.32E-36	0.265007116	0.464	0.227	2.67E-31	14 EGLN3
7.46E-47	0.264939105	0.455	0.191	2.39E-42	14 WLS
1.90E-29	0.264476034	0.563	0.313	6.10E-25	14 AC001226.2
1.63E-37	0.264429422	0.473	0.223	5.25E-33	14 HHAT
2.59E-74	0.264346396	0.298	0.078	8.32E-70	14 SH3D21
5.17E-26	0.263798799	0.79	0.511	1.66E-21	14 TAOK3
8.18E-30	0.263434124	0.36	0.169	2.63E-25	14 ENTPD3-AS1
1.39E-31	0.263248933	0.27	0.109	4.45E-27	14 BAALC-AS1
2.61E-74	0.263116226	0.333	0.093	8.37E-70	14 STARD8
2.24E-62	0.263024363	0.263	0.072	7.19E-58	14 AC016571.1
5.54E-30	0.262923348	0.587	0.327	1.78E-25	14 SLC10A7
6.58E-35	0.262664886	0.644	0.354	2.11E-30	14 LINC02256
1.68E-47	0.262660082	0.259	0.083	5.40E-43	14 S100A10
2.32E-49	0.262581296	0.563	0.255	7.44E-45	14 ZNF559
5.80E-38	0.262478247	0.423	0.195	1.86E-33	14 QRSL1
8.16E-33	0.262469583	0.451	0.223	2.62E-28	14 RAP1GAP
1.30E-26	0.262334559	0.797	0.51	4.17E-22	14 XPO1
9.94E-29	0.262077239	0.827	0.534	3.19E-24	14 KIAA0232
5.72E-56	0.261808076	0.328	0.108	1.84E-51	14 PTK7
2.65E-30	0.261276694	0.323	0.144	8.52E-26	14 ANKRD7
1.51E-27	0.26072589	0.48	0.259	4.84E-23	14 TENT4B
2.94E-28	0.260573146	0.741	0.455	9.44E-24	14 CCDC50
4.96E-49	0.260350816	0.397	0.156	1.59E-44	14 AC245297.1
1.74E-25	0.260184972	0.67	0.397	5.59E-21	14 ELL2
3.50E-34	0.260011145	0.473	0.232	1.12E-29	14 DNAI4
1.29E-21	0.259920865	0.891	0.628	4.13E-17	14 POGZ
1.37E-27	0.259853803	0.436	0.228	4.39E-23	14 TMEM123
6.17E-28	0.259763897	0.675	0.411	1.98E-23	14 HNRNPD
6.79E-43	0.259249241	0.37	0.149	2.18E-38	14 HOMER2
6.73E-22	0.258974707	0.663	0.42	2.16E-17	14 ATP2B1
3.77E-24	0.258445964	0.698	0.447	1.21E-19	14 ARMCX4
2.90E-33	0.258401833	0.642	0.351	9.31E-29	14 PRKCI
4.80E-20	0.257972317	0.855	0.594	1.54E-15	14 SUCLG2
4.30E-37	0.257697807	0.494	0.237	1.38E-32	14 AC090912.1
1.90E-32	0.257449494	0.695	0.398	6.11E-28	14 MYSM1
1.69E-25	0.257235282	0.896	0.614	5.42E-21	14 DNAH14
1.01E-65	0.25701574	0.446	0.159	3.25E-61	14 OBSL1
5.49E-43	0.2567657	0.305	0.113	1.76E-38	14 MARVELD2
3.00E-28	0.256476274	0.593	0.341	9.62E-24	14 TRIM24
1.39E-37	0.256359462	0.695	0.382	4.47E-33	14 CHASERR
1.50E-36	0.256294817	0.404	0.181	4.82E-32	14 AC011447.3

9.24E-39	0.255803302	0.347	0.143	2.97E-34	14 AL161725.1
5.28E-21	0.255650945	0.938	0.688	1.70E-16	14 SENP6
1.18E-23	0.255311768	0.556	0.33	3.79E-19	14 TTN-AS1
5.22E-32	0.25529404	0.617	0.343	1.68E-27	14 ATAD1
3.39E-39	0.255249879	0.513	0.25	1.09E-34	14 MYO5C
2.14E-23	0.254071744	0.988	0.828	6.86E-19	14 DDX17
4.51E-34	0.25373793	0.39	0.179	1.45E-29	14 FAM162A
7.17E-33	0.253732163	0.439	0.217	2.30E-28	14 TMX2
2.67E-16	0.25363116	0.979	0.794	8.57E-12	14 SIK3
1.43E-66	0.253461537	0.25	0.063	4.58E-62	14 IDH2-DT
4.06E-37	0.253034425	0.37	0.162	1.30E-32	14 NUDT21
3.69E-23	0.252724687	0.679	0.425	1.18E-18	14 FAM214A
2.18E-25	0.252339027	0.436	0.233	7.01E-21	14 B3GLCT
5.62E-24	0.252230465	0.332	0.163	1.81E-19	14 AC073475.1
1.99E-29	0.251981561	0.508	0.271	6.38E-25	14 FBXW8
3.14E-42	0.251806571	0.298	0.11	1.01E-37	14 AKIRIN2
1.20E-17	0.251440585	0.952	0.726	3.85E-13	14 ANKRD17
4.64E-30	0.251412966	0.668	0.389	1.49E-25	14 GRAMD1C
6.30E-29	0.251354322	0.571	0.323	2.02E-24	14 HSD17B4
7.18E-38	0.251341954	0.734	0.4	2.30E-33	14 CLCNKA
1.55E-32	0.251243742	0.506	0.266	4.99E-28	14 MORF4L2
7.56E-73	0.250902546	0.287	0.075	2.43E-68	14 LINC01507
1.29E-27	0.25033891	0.799	0.489	4.14E-23	14 NOS1AP
8.85E-30	0.250315542	0.751	0.463	2.84E-25	14 CASK
0	5.160203189	0.89	0.035	0	15 SLC26A4
0	4.609234423	0.995	0.108	0	15 SLC4A9
0	4.559720583	0.879	0.145	0	15 CELF2
0	3.993652315	0.971	0.151	0	15 AC008438.1
0	3.707603433	0.91	0.127	0	15 DGKI
0	3.322001035	0.805	0.07	0	15 SLC35F3
0	3.267503415	0.969	0.404	0	15 PLCG2
0	3.183131957	0.933	0.108	0	15 CA8
0	3.148472938	0.957	0.26	0	15 RCAN2
0	3.102015092	0.977	0.433	0	15 PACRG
0	3.056337624	0.939	0.09	0	15 LINC01187
0	2.990531507	0.805	0.168	0	15 ADAMTSL3
0	2.964377181	0.986	0.598	0	15 CA12
0	2.867514362	0.969	0.26	0	15 PDE1C
0	2.841590362	0.798	0.085	0	15 PPM1E
0	2.823640638	0.834	0.183	0	15 SEMA3C
0	2.726238305	0.922	0.229	0	15 ATP6V0D2
0	2.669180675	0.787	0.065	0	15 SAMHD1
0	2.564253767	0.951	0.408	0	15 ATP6V0A4
7.96E-287	2.556575688	0.937	0.426	2.56E-282	15 EPS8
8.82E-273	2.526419115	0.98	0.739	2.83E-268	15 WDR72
0	2.470708997	0.394	0.014	0	15 LINC02882
0	2.450581959	0.686	0.133	0	15 AL390957.1
3.21E-277	2.430345516	0.977	0.658	1.03E-272	15 MAGI3
0	2.42071915	0.915	0.258	0	15 SNTB1
0	2.413936147	0.977	0.163	0	15 CLNK
0	2.386817461	0.859	0.214	0	15 AP002884.2

0	2.2891856	0.792	0.192	0	15 LRRC9
0	2.260233067	0.76	0.195	0	15 DCLK2
0	2.25056988	0.747	0.086	0	15 IL18
4.78E-249	2.248983315	0.895	0.337	1.53E-244	15 BMPR1B
7.27E-228	2.248933496	0.951	0.506	2.33E-223	15 RNF152
0	2.215633878	0.765	0.107	0	15 IGFBP5
1.47E-267	2.186410067	0.904	0.367	4.71E-263	15 IQGAP2
3.53E-203	2.183118383	0.487	0.102	1.13E-198	15 GRM8
5.96E-290	2.171354638	1	0.882	1.92E-285	15 MAGI1
0	2.142114011	0.8	0.178	0	15 MVB12B
7.41E-264	2.10517991	0.764	0.211	2.38E-259	15 ADAMTSL1
6.32E-178	2.090192462	0.93	0.677	2.03E-173	15 TFPC2L1
0	2.075621523	0.87	0.101	0	15 AC015910.1
0	2.074022677	0.603	0.067	0	15 BCO2
1.89E-134	2.006976046	0.854	0.528	6.06E-130	15 PLCXD2
2.58E-234	1.973472987	0.91	0.425	8.30E-230	15 ITGA6
4.83E-152	1.96182738	0.852	0.531	1.55E-147	15 LIMS1
0	1.951039791	0.704	0.043	0	15 KRT7
2.24E-271	1.927139539	0.83	0.247	7.19E-267	15 PSD3
2.61E-249	1.910160385	0.744	0.221	8.37E-245	15 ARSJ
6.79E-224	1.906124237	0.751	0.249	2.18E-219	15 TRPC1
3.10E-190	1.903912845	0.637	0.187	9.96E-186	15 SDC2
6.16E-227	1.897480569	0.955	0.564	1.98E-222	15 NEBL
5.03E-224	1.881842553	0.969	0.777	1.61E-219	15 FOXP1
7.70E-239	1.880757662	0.984	0.814	2.47E-234	15 NEDD4L
0	1.873873957	0.8	0.098	0	15 ATP6V1C2
1.06E-179	1.867103963	0.883	0.554	3.39E-175	15 KIF13B
5.92E-181	1.862338247	0.81	0.403	1.90E-176	15 PPP2R5A
2.19E-138	1.84629489	0.359	0.077	7.03E-134	15 CSMD3
6.57E-197	1.817223791	0.883	0.432	2.11E-192	15 NCOA7
1.46E-170	1.800727404	0.816	0.421	4.68E-166	15 ATL2
1.94E-160	1.783782139	0.875	0.551	6.25E-156	15 PPP3CA
0	1.783555304	0.67	0.003	0	15 INSR
1.29E-282	1.776599547	0.718	0.187	4.15E-278	15 BCAP29
5.69E-217	1.752709396	0.944	0.586	1.83E-212	15 TMEM117
5.88E-163	1.740568973	0.933	0.736	1.89E-158	15 PICALM
8.71E-206	1.73076476	0.664	0.196	2.80E-201	15 CD9
2.44E-161	1.726915212	0.832	0.427	7.84E-157	15 EGFR
0	1.724246484	0.659	0.061	0	15 ATP6V1G3
1.35E-191	1.711696673	0.818	0.348	4.34E-187	15 SPTLC3
2.64E-183	1.694893002	0.906	0.549	8.48E-179	15 FOXN3
3.61E-152	1.678864782	0.729	0.31	1.16E-147	15 MBOAT2
5.16E-164	1.646042386	0.803	0.36	1.66E-159	15 MYRIP
0	1.63085949	0.469	0.008	0	15 SFTA1P
0	1.616355124	0.529	0.069	0	15 RTN1
1.68E-148	1.593322068	0.903	0.597	5.38E-144	15 FOXO1
3.83E-142	1.587396845	0.735	0.334	1.23E-137	15 PLPP3
8.03E-164	1.582087471	0.818	0.404	2.58E-159	15 TPD52
1.85E-142	1.581931727	0.832	0.489	5.94E-138	15 ASXL1
0	1.565626372	0.579	0.042	0	15 HEPACAM2
3.38E-146	1.56518854	0.89	0.565	1.09E-141	15 TBC1D4

6.13E-166	1.563459841	0.751	0.332	1.97E-161	15 SPTLC2
0	1.558778536	0.605	0.007	0	15 NTRK1
7.02E-167	1.554971226	0.841	0.385	2.26E-162	15 INPP4B
0	1.544969474	0.516	0.004	0	15 TLDC2
5.17E-141	1.540979461	0.861	0.516	1.66E-136	15 PTBP3
1.13E-128	1.524095566	0.798	0.475	3.62E-124	15 HMBOX1
4.83E-286	1.52206701	0.61	0.114	1.55E-281	15 NTN1
5.02E-207	1.504217566	0.774	0.271	1.61E-202	15 INPP4A
4.27E-202	1.486868632	0.612	0.154	1.37E-197	15 LINC01091
8.75E-92	1.479091389	0.596	0.258	2.81E-87	15 LAMA2
2.87E-202	1.467232176	0.807	0.292	9.21E-198	15 VAX2
0	1.456875974	0.523	0.057	0	15 TSPAN8
7.23E-145	1.43627487	0.856	0.56	2.32E-140	15 COG5
1.75E-195	1.429024238	0.522	0.114	5.62E-191	15 TNFAIP8
0	1.417403661	0.374	0.031	0	15 FRMPD4
7.30E-154	1.412328382	0.847	0.404	2.34E-149	15 SCIN
1.52E-162	1.409054639	0.783	0.31	4.88E-158	15 TMEM213
4.01E-142	1.40804038	0.899	0.627	1.29E-137	15 TBC1D1
0	1.396148002	0.473	0.043	0	15 GPSM2
5.66E-98	1.395268138	0.787	0.469	1.82E-93	15 PCNX4
5.22E-128	1.392330303	0.771	0.401	1.68E-123	15 ANXA4
3.68E-119	1.39224935	0.892	0.65	1.18E-114	15 PRKCE
9.85E-245	1.377706049	0.532	0.101	3.16E-240	15 TIAM1
4.07E-144	1.37490084	0.903	0.6	1.31E-139	15 TBL1X
0	1.364210139	0.529	0.073	0	15 WFDC2
2.48E-158	1.357870792	0.939	0.447	7.95E-154	15 PDZD2
3.92E-225	1.336413423	0.606	0.151	1.26E-220	15 GPD1L
3.08E-81	1.324455491	0.684	0.358	9.88E-77	15 PPARG
1.77E-54	1.318161451	0.715	0.484	5.67E-50	15 MAN2A1
4.63E-116	1.312869084	0.829	0.524	1.49E-111	15 USP3
0	1.30333976	0.518	0.038	0	15 NEURL1
1.37E-196	1.300067862	0.996	0.966	4.39E-192	15 ZBTB20
1.91E-241	1.299323103	0.61	0.132	6.14E-237	15 PARVB
1.33E-178	1.295791696	0.989	0.892	4.26E-174	15 RORA
0	1.290970832	0.505	0.036	0	15 B4GALNT2
6.37E-132	1.290919666	0.655	0.246	2.05E-127	15 LITAF
1.54E-28	1.288491901	0.271	0.123	4.96E-24	15 DGKB
2.26E-228	1.287987394	0.511	0.092	7.27E-224	15 CCBE1
3.19E-64	1.26208934	0.713	0.432	1.03E-59	15 PLCL2
1.29E-124	1.244970628	0.552	0.189	4.16E-120	15 SVOPL
1.31E-114	1.240448788	0.962	0.914	4.19E-110	15 GPHN
4.71E-228	1.235902197	0.657	0.153	1.51E-223	15 B3GAT1-DT
2.51E-157	1.23539829	0.682	0.231	8.07E-153	15 EVA1C
0	1.233771171	0.365	0.032	0	15 FOXI1
1.01E-167	1.232271616	0.884	0.399	3.25E-163	15 GRB10
2.31E-104	1.226137769	0.778	0.481	7.42E-100	15 PRKAA2
6.80E-95	1.218342102	0.829	0.614	2.18E-90	15 SPAG9
2.25E-88	1.205063352	0.847	0.641	7.24E-84	15 PHLDB2
4.49E-248	1.186427768	0.509	0.086	1.44E-243	15 TMEM163
4.30E-103	1.183613985	0.444	0.134	1.38E-98	15 CAMK1D
2.61E-25	1.175153333	0.469	0.301	8.40E-21	15 LINC02694

1.84E-95	1.171566295	0.854	0.574	5.91E-91	15 ASAP2
6.01E-145	1.166928209	0.464	0.116	1.93E-140	15 PTGFR
0	1.15001844	0.43	0.006	0	15 LINC00710
4.16E-62	1.148255979	0.688	0.398	1.34E-57	15 MAP3K5
5.77E-127	1.143343207	0.469	0.131	1.85E-122	15 LGALS3
1.28E-98	1.140177813	0.626	0.248	4.10E-94	15 DOCK8
1.93E-92	1.13573911	0.762	0.409	6.21E-88	15 TMEM51
3.28E-63	1.13369289	0.619	0.348	1.05E-58	15 ATP10D
5.30E-111	1.132799646	0.886	0.689	1.70E-106	15 GNAQ
4.78E-70	1.130743299	0.662	0.377	1.54E-65	15 SESTD1
1.22E-101	1.113634895	0.727	0.379	3.92E-97	15 CARMIL1
7.84E-112	1.103423448	0.735	0.321	2.52E-107	15 SLC22A23
0	1.102568711	0.334	0.027	0	15 KCNJ6
1.64E-141	1.100476184	0.724	0.266	5.28E-137	15 SEMA5A
4.79E-107	1.096673472	0.662	0.296	1.54E-102	15 DAP
1.55E-104	1.095731758	0.847	0.555	4.97E-100	15 RALGAPA2
1.56E-64	1.095605408	0.865	0.735	5.00E-60	15 MYO6
3.17E-133	1.076607811	0.969	0.773	1.02E-128	15 ARL15
8.76E-154	1.075645299	0.731	0.249	2.81E-149	15 RHBG
2.78E-74	1.074524073	0.776	0.487	8.93E-70	15 MFHAS1
6.50E-100	1.074136796	0.439	0.136	2.09E-95	15 LINC01619
4.14E-101	1.072151586	0.773	0.422	1.33E-96	15 DTNB
1.14E-85	1.071827463	0.724	0.4	3.65E-81	15 UBL3
1.94E-87	1.07172136	0.744	0.459	6.24E-83	15 RGPD5
2.50E-78	1.065723029	0.724	0.418	8.03E-74	15 ATP6V1A
5.05E-160	1.064586956	0.392	0.077	1.62E-155	15 CCDC68
4.66E-108	1.045977847	0.659	0.278	1.50E-103	15 TRMT9B
3.76E-51	1.042635491	0.596	0.355	1.21E-46	15 TTC39B
3.07E-133	1.041594098	0.253	0.039	9.87E-129	15 GRIN2A
7.19E-100	1.023067409	0.825	0.452	2.31E-95	15 DACH1
1.06E-90	1.022756829	0.796	0.484	3.39E-86	15 RALGPS2
9.59E-80	1.013811154	0.514	0.211	3.08E-75	15 FAM83B
3.06E-84	1.001388505	0.644	0.314	9.82E-80	15 EGLN1
1.71E-29	0.999858044	0.448	0.258	5.51E-25	15 HSP90B1
2.38E-100	0.999043657	0.596	0.246	7.66E-96	15 DLG5
2.11E-89	0.997828329	0.877	0.621	6.77E-85	15 GAREM1
1.40E-63	0.994182094	0.583	0.304	4.48E-59	15 GALNT7
2.22E-75	0.991492944	0.854	0.655	7.12E-71	15 HIPK2
4.03E-125	0.984884211	0.962	0.825	1.29E-120	15 MSI2
1.61E-115	0.983344883	0.668	0.269	5.19E-111	15 STIM1
2.67E-117	0.980611219	0.529	0.17	8.58E-113	15 DOP1B
3.54E-78	0.979677009	0.783	0.464	1.14E-73	15 ARHGAP18
3.33E-74	0.978599558	0.789	0.501	1.07E-69	15 BACH1
6.56E-70	0.977000985	0.65	0.322	2.11E-65	15 TMPRSS2
0	0.975347643	0.35	0.029	0	15 AL355472.2
2.38E-59	0.971473424	0.484	0.225	7.65E-55	15 MDFIC
1.21E-45	0.970406828	0.59	0.339	3.89E-41	15 GLCC1
2.58E-60	0.970321383	0.733	0.443	8.30E-56	15 RNF150
9.02E-114	0.96671656	0.397	0.101	2.90E-109	15 ITIH5
4.85E-60	0.966484674	0.588	0.301	1.56E-55	15 PXX
1.96E-60	0.957725357	0.567	0.285	6.28E-56	15 FAM117B

8.96E-39	0.955200351	0.435	0.223	2.88E-34	15 OXCT1
1.11E-42	0.953265217	0.478	0.245	3.56E-38	15 CERS4
2.27E-62	0.952949528	0.796	0.589	7.30E-58	15 MAPKAP1
1.80E-80	0.952257342	0.742	0.418	5.77E-76	15 TBC1D14
0	0.949430183	0.384	0.03	0	15 STAC2
3.75E-194	0.947470892	0.422	0.075	1.20E-189	15 MAP3K8
0	0.942286928	0.408	0.036	0	15 PTPRC
5.45E-67	0.939484592	0.455	0.186	1.75E-62	15 MBOAT1
3.57E-67	0.936501265	0.724	0.473	1.15E-62	15 RGPD8
5.51E-262	0.936020486	0.307	0.029	1.77E-257	15 ADAMTS18
4.01E-70	0.932556869	0.628	0.322	1.29E-65	15 MEGF9
5.41E-164	0.930593026	0.475	0.109	1.74E-159	15 ATP6AP2
0	0.929028378	0.31	0.017	0	15 AC136428.4
7.85E-82	0.928820077	0.603	0.287	2.52E-77	15 KDM7A
1.68E-99	0.915000549	0.484	0.157	5.40E-95	15 IRS1
2.80E-79	0.912835286	0.794	0.462	8.99E-75	15 PRR5-ARHGAP8
0	0.912298018	0.289	0.013	0	15 LINC01687
3.78E-51	0.912162764	0.635	0.37	1.22E-46	15 SAMD4A
5.42E-60	0.905257153	0.597	0.312	1.74E-55	15 RPS6KA3
6.51E-68	0.904310477	0.587	0.291	2.09E-63	15 EIPR1
2.74E-58	0.900168332	0.875	0.665	8.80E-54	15 PPARGC1A
2.27E-56	0.899340583	0.599	0.322	7.28E-52	15 KLF6
2.77E-162	0.894520331	0.345	0.058	8.89E-158	15 ITPRID1
3.08E-86	0.892066674	0.982	0.847	9.88E-82	15 LRMDA
3.18E-81	0.891734557	0.538	0.224	1.02E-76	15 FGF9
1.71E-244	0.890884651	0.339	0.038	5.49E-240	15 CLDN1
1.12E-77	0.887318023	0.495	0.197	3.61E-73	15 NIN
5.31E-82	0.883300242	0.769	0.425	1.71E-77	15 SCNN1A
1.32E-63	0.882700303	0.688	0.412	4.24E-59	15 PRKDC
6.24E-72	0.881375868	0.868	0.689	2.00E-67	15 UBE2H
2.26E-75	0.876409005	0.545	0.235	7.25E-71	15 SCAI
7.32E-64	0.875021826	0.83	0.585	2.35E-59	15 PTPRJ
2.78E-97	0.874959862	0.59	0.235	8.93E-93	15 ITPK1
4.96E-72	0.8749428	0.547	0.247	1.59E-67	15 ATP9A
2.82E-63	0.866622838	0.538	0.246	9.04E-59	15 SNED1
1.12E-80	0.863368102	0.44	0.156	3.61E-76	15 ABHD3
3.94E-102	0.862079329	0.563	0.21	1.27E-97	15 TSPAN14
1.97E-50	0.861186548	0.592	0.315	6.31E-46	15 FAM110B
1.04E-44	0.859377982	0.619	0.354	3.35E-40	15 BACE2
7.12E-50	0.858857149	0.863	0.711	2.29E-45	15 MACROD2
6.06E-74	0.857798327	0.814	0.517	1.94E-69	15 DPY19L2
9.11E-122	0.857506879	0.384	0.091	2.93E-117	15 AC013472.1
1.90E-11	0.857317972	0.256	0.162	6.11E-07	15 UNC13C
7.25E-74	0.852512601	0.937	0.81	2.33E-69	15 PRKN
1.36E-33	0.85058745	0.614	0.415	4.36E-29	15 BACH2
6.04E-78	0.849549748	0.924	0.799	1.94E-73	15 SOX6
4.91E-49	0.846348538	0.323	0.123	1.58E-44	15 RGS7
8.13E-67	0.844716439	0.614	0.301	2.61E-62	15 SUSD1
7.03E-25	0.843787027	0.632	0.485	2.26E-20	15 CUL5
6.83E-64	0.838332824	0.61	0.324	2.19E-59	15 PTPN21
3.43E-54	0.836456473	0.783	0.568	1.10E-49	15 SGMS1

3.64E-51	0.83515299	0.673	0.411	1.17E-46	15 CYTH1
1.38E-86	0.831975687	0.597	0.258	4.43E-82	15 MYO19
3.68E-59	0.827730851	0.856	0.65	1.18E-54	15 HERC1
2.61E-65	0.826395764	0.471	0.205	8.38E-61	15 AC036214.3
6.37E-56	0.824324435	0.69	0.428	2.04E-51	15 CMAHP
9.50E-72	0.823520063	0.913	0.718	3.05E-67	15 CGNL1
4.75E-61	0.821826307	0.729	0.463	1.53E-56	15 CDC42BPB
5.40E-62	0.821377339	0.778	0.519	1.74E-57	15 CAB39
5.49E-201	0.818958208	0.28	0.032	1.76E-196	15 AC007563.2
8.31E-254	0.818707219	0.35	0.039	2.67E-249	15 AC084048.1
1.58E-46	0.814569905	0.619	0.389	5.09E-42	15 RNF149
1.28E-94	0.814108822	0.982	0.921	4.11E-90	15 FHIT
2.77E-54	0.813770134	0.684	0.406	8.89E-50	15 ASTN2
3.59E-64	0.813612646	0.919	0.804	1.15E-59	15 AC016831.6
4.52E-38	0.811328316	0.383	0.182	1.45E-33	15 DNAH11
1.21E-58	0.811121977	0.765	0.518	3.87E-54	15 ATP6V1H
6.46E-62	0.810394538	0.832	0.516	2.08E-57	15 FREM1
5.43E-62	0.810379821	0.872	0.657	1.74E-57	15 SAMD12
2.34E-86	0.803277817	0.486	0.177	7.53E-82	15 WNK3
1.55E-74	0.79622829	0.625	0.271	4.99E-70	15 FYB2
1.54E-63	0.787914394	0.641	0.35	4.94E-59	15 SCML1
5.66E-276	0.78437411	0.305	0.028	1.82E-271	15 CDA
1.02E-21	0.784181777	0.563	0.429	3.26E-17	15 CDH12
4.86E-67	0.779490302	0.935	0.789	1.56E-62	15 NR3C2
9.01E-69	0.776163421	0.264	0.07	2.89E-64	15 LPAR1
9.64E-249	0.772962056	0.345	0.039	3.10E-244	15 FBN3
2.22E-44	0.77223539	0.718	0.471	7.15E-40	15 SPIRE1
2.72E-59	0.770406515	0.426	0.17	8.74E-55	15 UAP1
7.25E-62	0.770113031	0.262	0.073	2.33E-57	15 RIPOR2
7.15E-49	0.767238288	0.532	0.282	2.30E-44	15 TMEM65
3.80E-96	0.766000509	0.368	0.096	1.22E-91	15 VWA5B1
1.62E-269	0.764181394	0.357	0.039	5.21E-265	15 PACRG-AS3
2.41E-43	0.763752158	0.397	0.175	7.74E-39	15 ANGPT1
9.69E-46	0.762928998	0.619	0.354	3.11E-41	15 SGPP2
7.49E-57	0.760631804	0.585	0.306	2.40E-52	15 DOCK5
5.67E-38	0.760455943	0.637	0.434	1.82E-33	15 RAP1A
2.59E-20	0.757104076	0.415	0.258	8.31E-16	15 GS1-24F4.2
6.16E-35	0.755417061	0.827	0.66	1.98E-30	15 LGR4
7.48E-85	0.752762007	0.556	0.214	2.40E-80	15 ST3GAL1
2.38E-53	0.752304957	0.538	0.274	7.65E-49	15 ZNF431
1.81E-21	0.751161933	0.861	0.726	5.82E-17	15 DIP2C
5.64E-76	0.748559086	0.44	0.161	1.81E-71	15 ZFP64
1.33E-58	0.747959482	0.888	0.75	4.29E-54	15 BTBD9
9.82E-52	0.747365863	0.792	0.504	3.15E-47	15 SKAP1
1.13E-87	0.747316315	0.318	0.08	3.62E-83	15 FAM13C
5.01E-54	0.746367433	0.709	0.445	1.61E-49	15 SMURF1
1.90E-107	0.73953387	0.273	0.053	6.09E-103	15 RUNX2
4.39E-73	0.739528067	0.41	0.142	1.41E-68	15 PLS1
3.11E-40	0.738174605	0.749	0.544	1.00E-35	15 FAM120B
9.88E-29	0.737051999	0.422	0.239	3.17E-24	15 ACAT1
1.47E-61	0.736464966	0.848	0.527	4.73E-57	15 OSBPL3

8.43E-55	0.73338882	0.619	0.339	2.71E-50	15 TMEM116
4.45E-39	0.725580409	0.52	0.291	1.43E-34	15 YPEL2
1.43E-70	0.722156987	0.93	0.795	4.60E-66	15 SIK3
1.41E-49	0.719397384	0.785	0.607	4.52E-45	15 GIGYF2
3.65E-46	0.719220233	0.711	0.489	1.17E-41	15 SMAP1
3.36E-106	0.717138368	0.327	0.073	1.08E-101	15 AL691403.1
6.40E-48	0.715108875	0.617	0.359	2.06E-43	15 ANXA11
9.96E-26	0.714192872	0.487	0.315	3.20E-21	15 LRIG2
2.30E-39	0.713370217	0.769	0.577	7.38E-35	15 USP9X
5.79E-65	0.710608452	0.542	0.236	1.86E-60	15 COL6A1
2.20E-45	0.709293604	0.803	0.636	7.05E-41	15 TMCC1
2.32E-74	0.708228272	0.915	0.826	7.46E-70	15 ZFAND3
3.48E-45	0.707817129	0.738	0.494	1.12E-40	15 XKR6
3.61E-70	0.705336	0.973	0.843	1.16E-65	15 MUC20-OT1
3.45E-27	0.703707671	0.578	0.403	1.11E-22	15 CAMK2D
1.97E-128	0.701007856	0.408	0.098	6.32E-124	15 MINDY1
7.82E-47	0.699325462	0.511	0.268	2.51E-42	15 MACO1
1.96E-46	0.698491406	0.774	0.555	6.29E-42	15 ELF2
8.78E-53	0.696245483	0.865	0.706	2.82E-48	15 STK3
1.31E-279	0.696100599	0.289	0.024	4.22E-275	15 LINC01323
2.18E-70	0.694946739	0.46	0.183	7.01E-66	15 INSIG2
1.61E-58	0.693208973	0.471	0.208	5.16E-54	15 PPFIBP2
8.58E-141	0.691948462	0.347	0.067	2.75E-136	15 PLAGL2
1.05E-39	0.688315596	0.641	0.417	3.38E-35	15 RAPGEF1
5.90E-111	0.687529396	0.516	0.156	1.89E-106	15 PLCE1
1.31E-41	0.687022341	0.812	0.638	4.21E-37	15 QKI
3.05E-36	0.686031989	0.668	0.462	9.79E-32	15 MCU
6.05E-49	0.685613136	0.78	0.54	1.94E-44	15 CTDSPL
5.80E-43	0.684970506	0.738	0.533	1.86E-38	15 ARHGEF7
4.74E-40	0.684092677	0.634	0.403	1.52E-35	15 CDYL
7.78E-66	0.681597891	0.489	0.211	2.50E-61	15 CLN8
8.08E-51	0.679294689	0.477	0.223	2.59E-46	15 CBR3-AS1
7.79E-67	0.67574826	0.948	0.828	2.50E-62	15 MACF1
4.95E-59	0.671863238	0.486	0.207	1.59E-54	15 TLE1
1.22E-68	0.667451332	0.466	0.194	3.90E-64	15 RGPD6
4.92E-92	0.666647923	0.336	0.087	1.58E-87	15 CEP78
3.42E-156	0.663933113	0.316	0.052	1.10E-151	15 MMD
4.44E-30	0.661046941	0.78	0.616	1.43E-25	15 CPQ
6.06E-37	0.660455262	0.588	0.364	1.95E-32	15 PNPLA8
6.57E-57	0.657115607	0.332	0.11	2.11E-52	15 LY86-AS1
4.31E-55	0.654680691	0.59	0.31	1.38E-50	15 AMFR
1.43E-32	0.654410651	0.536	0.331	4.59E-28	15 GLUD1
1.60E-36	0.654279612	0.413	0.198	5.14E-32	15 GALNT17
1.83E-122	0.653552476	0.384	0.089	5.89E-118	15 TCF3
4.88E-25	0.651580822	0.673	0.495	1.57E-20	15 MLLT3
4.51E-43	0.65044659	0.819	0.647	1.45E-38	15 ARFGEF1
2.80E-33	0.649979331	0.778	0.584	8.98E-29	15 TRHDE
6.17E-41	0.649444086	0.814	0.623	1.98E-36	15 DMXL1
4.67E-68	0.643570745	0.404	0.145	1.50E-63	15 ST14
3.30E-64	0.640716247	0.37	0.128	1.06E-59	15 SH2D4A
6.51E-36	0.637193482	0.724	0.516	2.09E-31	15 PACS1

7.31E-48	0.633557917	0.52	0.268	2.35E-43	15 FASTKD1
5.03E-155	0.630477544	0.251	0.032	1.62E-150	15 UBE2QL1
9.70E-45	0.629509908	0.619	0.351	3.12E-40	15 PPP1R13B
4.50E-31	0.627740468	0.708	0.515	1.45E-26	15 AC068205.2
1.76E-30	0.627143104	0.652	0.46	5.65E-26	15 ZFAND5
2.04E-15	0.626632871	0.675	0.572	6.56E-11	15 CNKSR3
1.73E-40	0.624480864	0.339	0.147	5.56E-36	15 KLHL23
7.95E-30	0.623293642	0.675	0.498	2.55E-25	15 PSME4
1.37E-34	0.622406964	0.608	0.4	4.40E-30	15 CGGBP1
2.53E-43	0.62136754	0.673	0.438	8.13E-39	15 U2SURP
2.08E-41	0.620033837	0.442	0.219	6.68E-37	15 SERGEF
9.03E-29	0.616093747	0.621	0.446	2.90E-24	15 UBE2E1
4.87E-51	0.614651339	0.796	0.481	1.56E-46	15 TOX3
8.03E-55	0.614577685	0.267	0.081	2.58E-50	15 CYTIP
3.60E-41	0.613064293	0.753	0.487	1.16E-36	15 HOXB3
5.10E-41	0.612585855	0.717	0.478	1.64E-36	15 ZFYVE16
4.00E-44	0.612271631	0.699	0.466	1.29E-39	15 CAPZB
4.09E-71	0.609949503	0.347	0.11	1.31E-66	15 SMYD2
1.39E-19	0.609429144	0.605	0.456	4.46E-15	15 AC145212.1
2.61E-40	0.609028153	0.691	0.457	8.38E-36	15 ZMIZ1
8.10E-34	0.608629524	0.504	0.29	2.60E-29	15 LAMC1
4.60E-26	0.60229659	0.597	0.402	1.48E-21	15 SSBP3
2.47E-45	0.599945414	0.379	0.16	7.93E-41	15 RFTN1
7.49E-33	0.597676588	0.809	0.645	2.40E-28	15 FNBP1L
4.55E-37	0.59767107	0.671	0.457	1.46E-32	15 ACTR3C
4.88E-30	0.595006214	0.655	0.44	1.57E-25	15 SEPTIN9
2.45E-35	0.594420088	0.54	0.32	7.86E-31	15 NUP160
7.67E-45	0.594165387	0.532	0.276	2.46E-40	15 TMCO4
1.31E-36	0.588160295	0.776	0.601	4.21E-32	15 CAMTA1
2.61E-100	0.586728294	0.262	0.051	8.38E-96	15 DLL1
2.11E-42	0.586145765	0.437	0.212	6.76E-38	15 PLEKHA8
3.95E-36	0.584556494	0.742	0.505	1.27E-31	15 RALGPS1
1.85E-24	0.583806877	0.505	0.328	5.95E-20	15 PISD
7.86E-35	0.5820734	0.522	0.289	2.53E-30	15 CDH1
7.34E-35	0.580123056	0.603	0.385	2.36E-30	15 STRN
2.06E-35	0.580044805	0.886	0.728	6.61E-31	15 SHANK2
5.28E-32	0.578836648	0.652	0.439	1.70E-27	15 AC013394.1
3.36E-68	0.578119994	0.442	0.166	1.08E-63	15 SH3TC1
3.66E-33	0.577873317	0.608	0.391	1.18E-28	15 STT3B
2.36E-41	0.577506793	0.834	0.661	7.56E-37	15 PKN2
1.32E-40	0.576302469	0.796	0.532	4.25E-36	15 MYO10
1.12E-21	0.576205454	0.628	0.46	3.60E-17	15 FRK
4.37E-34	0.575427124	0.597	0.368	1.40E-29	15 SLC43A2
4.01E-30	0.573369571	0.679	0.467	1.29E-25	15 UTY
1.95E-34	0.572555976	0.747	0.55	6.27E-30	15 SIPA1L3
9.78E-35	0.57236242	0.478	0.265	3.14E-30	15 UGP2
2.25E-34	0.572339989	0.561	0.339	7.22E-30	15 ACSL3
3.81E-31	0.572036107	0.39	0.198	1.23E-26	15 MAPRE2
7.03E-33	0.569856521	0.673	0.467	2.26E-28	15 CDC42SE2
5.40E-29	0.569074492	0.693	0.515	1.73E-24	15 UNC13B
2.25E-34	0.568468135	0.5	0.283	7.22E-30	15 SGMS2

2.50E-55	0.56796035	0.33	0.116	8.04E-51	15 AL356124.1
3.75E-23	0.566689514	0.464	0.293	1.20E-18	15 SLC19A2
3.42E-39	0.562654649	0.285	0.111	1.10E-34	15 PDE11A
2.94E-26	0.562385615	0.596	0.401	9.43E-22	15 PHACTR2
1.15E-26	0.561378649	0.699	0.492	3.68E-22	15 ZNRF3
1.76E-31	0.561182953	0.289	0.124	5.64E-27	15 UPP1
4.58E-35	0.558992396	0.767	0.572	1.47E-30	15 RICTOR
2.08E-41	0.557189467	0.91	0.795	6.69E-37	15 FAF1
1.42E-32	0.554487328	0.551	0.328	4.55E-28	15 CRYBG3
8.68E-57	0.553430371	0.406	0.152	2.79E-52	15 SIPA1L2
6.75E-43	0.552718864	0.451	0.223	2.17E-38	15 SELENOI
6.42E-28	0.552490183	0.713	0.5	2.06E-23	15 TRIM2
1.40E-33	0.551074656	0.76	0.552	4.51E-29	15 MRTFA
5.59E-29	0.548583467	0.874	0.763	1.79E-24	15 BAZ2B
6.31E-31	0.54834653	0.684	0.493	2.03E-26	15 HIPK3
1.19E-19	0.547393029	0.525	0.359	3.81E-15	15 MOB3B
5.03E-29	0.546664126	0.693	0.504	1.61E-24	15 ABCD3
1.65E-60	0.544962118	0.267	0.079	5.29E-56	15 ABHD10
3.44E-33	0.543956758	0.292	0.126	1.10E-28	15 AC007161.3
2.48E-32	0.542991744	0.616	0.394	7.98E-28	15 GNAS
1.68E-27	0.542763957	0.363	0.189	5.39E-23	15 MIR222HG
4.13E-30	0.541480822	0.449	0.242	1.33E-25	15 BHLHE40
1.85E-21	0.539050207	0.5	0.33	5.94E-17	15 RIMKLB
1.26E-21	0.537997954	0.372	0.218	4.05E-17	15 SEL1L
1.08E-21	0.537741011	0.616	0.453	3.46E-17	15 ZNF618
3.71E-33	0.533905858	0.662	0.439	1.19E-28	15 CHD7
1.22E-39	0.533826295	0.482	0.246	3.90E-35	15 KHDRBS3
2.08E-28	0.531437876	0.67	0.491	6.68E-24	15 SDHAP1
4.31E-25	0.530646421	0.576	0.395	1.38E-20	15 REPS1
1.43E-37	0.530331903	0.442	0.224	4.61E-33	15 TFEB
7.79E-22	0.526464973	0.379	0.217	2.50E-17	15 NLGN4Y
1.92E-27	0.522527915	0.61	0.411	6.17E-23	15 PPFIA1
2.73E-25	0.520016659	0.28	0.132	8.76E-21	15 HNF4G
1.06E-28	0.519875976	0.466	0.274	3.40E-24	15 MRPL1
3.30E-31	0.518272572	0.838	0.724	1.06E-26	15 NF1
3.44E-24	0.517243748	0.681	0.508	1.10E-19	15 CHD2
1.81E-25	0.513891187	0.525	0.335	5.82E-21	15 ST3GAL6
4.46E-16	0.512972431	0.5	0.348	1.43E-11	15 RETREG1
3.99E-26	0.512708071	0.435	0.255	1.28E-21	15 PCMTD2
2.00E-50	0.511081704	0.448	0.201	6.41E-46	15 PAFAH1B2
1.10E-26	0.511045465	0.735	0.56	3.54E-22	15 MAP7
2.60E-34	0.510659722	0.347	0.152	8.33E-30	15 DOCK10
5.67E-28	0.509777799	0.85	0.706	1.82E-23	15 UBE2E2
1.07E-18	0.508758544	0.41	0.26	3.44E-14	15 DOCK3
1.95E-34	0.508630678	0.437	0.226	6.27E-30	15 RALA
3.51E-37	0.508580919	0.446	0.227	1.13E-32	15 ABHD12
1.72E-29	0.504946609	0.498	0.293	5.51E-25	15 ATP6V0E1
2.57E-42	0.504647943	0.468	0.226	8.24E-38	15 BAIAP2L1
5.00E-33	0.504236398	0.635	0.397	1.61E-28	15 ABCC5
9.48E-10	0.504229771	0.323	0.217	3.04E-05	15 TFRC
2.18E-35	0.503647631	0.278	0.11	7.02E-31	15 TBXAS1

4.51E-24	0.502238424	0.484	0.291	1.45E-19	15 PBX3
3.09E-34	0.498722078	0.529	0.302	9.92E-30	15 N4BP1
8.82E-73	0.498008329	0.283	0.074	2.83E-68	15 CORO2B
1.19E-49	0.496467289	0.374	0.148	3.81E-45	15 AMOTL1
1.51E-21	0.493933625	0.628	0.47	4.86E-17	15 VAPA
9.38E-26	0.492075643	0.671	0.491	3.01E-21	15 DIAPH1
2.25E-40	0.492044027	0.57	0.305	7.22E-36	15 NPNT
2.47E-37	0.491635107	0.572	0.333	7.93E-33	15 EXOC6
3.27E-25	0.491315729	0.704	0.534	1.05E-20	15 RNF38
1.21E-22	0.489242479	0.637	0.476	3.89E-18	15 STX18
7.32E-27	0.488579002	0.588	0.383	2.35E-22	15 MRPS5
3.76E-25	0.488161897	0.495	0.314	1.21E-20	15 STXBP3
7.18E-15	0.487630685	0.435	0.293	2.31E-10	15 DEFB1
6.49E-37	0.487388338	0.3	0.123	2.08E-32	15 ERO1A
1.06E-24	0.484772889	0.673	0.504	3.41E-20	15 ARFGF2
9.55E-24	0.484299254	0.751	0.613	3.07E-19	15 CHCHD3
3.16E-38	0.484139648	0.948	0.785	1.02E-33	15 PLCL1
1.02E-29	0.482374117	0.816	0.699	3.28E-25	15 PPP6R3
2.49E-24	0.481483878	0.442	0.265	8.01E-20	15 MAP3K3
7.32E-24	0.480141409	0.594	0.413	2.35E-19	15 MEMO1
2.35E-55	0.479888288	0.278	0.087	7.56E-51	15 PLLP
1.94E-15	0.477408722	0.442	0.294	6.24E-11	15 MAL
2.66E-20	0.476611436	0.724	0.573	8.54E-16	15 FAM160A1
1.98E-39	0.475900854	0.356	0.156	6.35E-35	15 ANXA5
2.35E-20	0.474598944	0.673	0.539	7.55E-16	15 LRRFIP2
8.29E-47	0.473670129	0.336	0.13	2.66E-42	15 PDIA6
3.11E-19	0.472974921	0.468	0.311	1.00E-14	15 MTOR
2.05E-18	0.470924914	0.52	0.367	6.58E-14	15 ZCCHC14
8.27E-22	0.469685293	0.67	0.505	2.65E-17	15 ECPAS
3.37E-30	0.468555799	0.83	0.705	1.08E-25	15 AFDN
3.33E-20	0.46832953	0.643	0.484	1.07E-15	15 TACC2
4.71E-34	0.467892759	0.939	0.875	1.51E-29	15 LPP
3.70E-33	0.466393356	0.448	0.242	1.19E-28	15 RGPD4
3.73E-23	0.465395634	0.863	0.748	1.20E-18	15 FBXL17
4.99E-47	0.463944747	0.314	0.117	1.60E-42	15 AC058791.1
2.82E-22	0.463753714	0.682	0.519	9.05E-18	15 ITSN2
1.13E-30	0.463660173	0.381	0.193	3.64E-26	15 JADE3
5.36E-16	0.463411223	0.688	0.542	1.72E-11	15 DENND4A
2.80E-25	0.460679174	0.715	0.528	8.99E-21	15 LARP4
4.54E-36	0.460545992	0.314	0.131	1.46E-31	15 EFEMP1
3.71E-25	0.460455246	0.276	0.129	1.19E-20	15 SLC9A9
7.35E-17	0.460357044	0.395	0.249	2.36E-12	15 NSUN7
5.51E-22	0.458689877	0.724	0.576	1.77E-17	15 XRN1
5.52E-23	0.458535055	0.366	0.201	1.77E-18	15 GOLM1
1.87E-13	0.457825782	0.608	0.489	6.01E-09	15 FAM135A
5.28E-38	0.45581064	0.415	0.201	1.69E-33	15 PRDM4
9.80E-39	0.455667047	0.446	0.214	3.15E-34	15 SYK
4.86E-28	0.455516232	0.455	0.264	1.56E-23	15 PLEKHB2
3.12E-20	0.455116907	0.726	0.57	1.00E-15	15 FBXW11
2.64E-05	0.453802985	0.453	0.379	0.848119758	15 AC107223.1
4.56E-21	0.453622714	0.489	0.323	1.46E-16	15 USP6NL

3.05E-19	0.45333345	0.735	0.597	9.80E-15	15 CTBP2
1.23E-29	0.453077037	0.287	0.128	3.95E-25	15 SOAT1
1.79E-49	0.451765604	0.255	0.08	5.76E-45	15 TMEM51-AS1
2.55E-26	0.451611618	0.762	0.582	8.18E-22	15 NPEPPS
1.03E-16	0.45127512	0.773	0.632	3.29E-12	15 CLMN
4.45E-35	0.451106091	0.323	0.142	1.43E-30	15 LRP12
1.40E-21	0.450854981	0.563	0.384	4.51E-17	15 CBFEB
1.94E-18	0.450814621	0.653	0.476	6.24E-14	15 FAAH2
1.65E-28	0.450474242	0.341	0.164	5.31E-24	15 STAC
6.83E-18	0.449413674	0.677	0.53	2.19E-13	15 HIVEP2
6.23E-25	0.449171512	0.643	0.465	2.00E-20	15 RNGTT
1.46E-24	0.448404567	0.457	0.274	4.67E-20	15 DAB2IP
6.94E-26	0.447992657	0.782	0.623	2.23E-21	15 ANKRD28
1.26E-20	0.446500635	0.8	0.675	4.04E-16	15 EXT1
1.52E-28	0.445022168	0.365	0.188	4.88E-24	15 DDX52
1.34E-17	0.443254429	0.662	0.517	4.31E-13	15 DNAJC1
1.07E-32	0.43923198	0.366	0.174	3.43E-28	15 FAM169A
1.74E-26	0.439016484	0.498	0.308	5.58E-22	15 UBE2Q2P1
1.05E-24	0.438767207	0.61	0.396	3.39E-20	15 STOX2
1.49E-27	0.438274975	0.415	0.231	4.80E-23	15 SH3GLB1
7.62E-25	0.43792214	0.395	0.227	2.45E-20	15 APOOL
2.95E-20	0.437593334	0.444	0.29	9.49E-16	15 PPM1A
2.96E-20	0.437531757	0.563	0.399	9.49E-16	15 ATG5
2.46E-20	0.437422692	0.262	0.128	7.91E-16	15 AC117386.2
1.41E-20	0.437173133	0.661	0.493	4.54E-16	15 FBXL20
7.24E-17	0.436788047	0.339	0.199	2.32E-12	15 GADD45B
1.26E-57	0.436329438	0.348	0.123	4.04E-53	15 ATP6V0B
3.00E-20	0.43469186	0.839	0.713	9.65E-16	15 CDKAL1
2.92E-20	0.434229559	0.509	0.344	9.38E-16	15 TRIM24
5.33E-25	0.433829961	0.958	0.881	1.71E-20	15 WWOX
3.21E-23	0.43332214	0.531	0.349	1.03E-18	15 ADIPOR2
1.53E-28	0.4318573	0.356	0.177	4.91E-24	15 DSP
5.47E-25	0.431779881	0.534	0.339	1.76E-20	15 MAP4K4
1.52E-22	0.431224808	0.713	0.558	4.89E-18	15 KIF1B
2.28E-32	0.430999213	0.498	0.287	7.32E-28	15 RGPD3
1.69E-22	0.430273673	0.579	0.401	5.44E-18	15 SMG7
4.49E-15	0.428649669	0.507	0.361	1.44E-10	15 JADE1
3.24E-19	0.42803885	0.684	0.531	1.04E-14	15 ZFAND6
7.92E-26	0.427862708	0.531	0.336	2.54E-21	15 GSPT1
9.79E-19	0.42761892	0.5	0.339	3.14E-14	15 PARVA
3.61E-17	0.427435049	0.525	0.379	1.16E-12	15 PTPN2
1.17E-22	0.426881833	0.457	0.288	3.76E-18	15 CIBAR1
1.05E-16	0.425708375	0.659	0.526	3.37E-12	15 JARID2
6.45E-24	0.425141533	0.619	0.447	2.07E-19	15 AC090114.3
1.12E-22	0.422190954	0.348	0.195	3.59E-18	15 GTF3C3
3.63E-22	0.421719405	0.5	0.311	1.17E-17	15 GPRIN3
1.53E-28	0.421034057	0.502	0.296	4.90E-24	15 VEGFA
6.59E-18	0.420639341	0.632	0.445	2.12E-13	15 GPAT3
2.93E-25	0.418752599	0.338	0.173	9.41E-21	15 CHCHD6
1.93E-17	0.418640868	0.305	0.172	6.19E-13	15 FAM102A
6.47E-21	0.418103078	0.783	0.656	2.08E-16	15 MAP4

1.69E-27	0.417612888	0.394	0.214	5.43E-23	15 ZBTB43
1.25E-19	0.416710984	0.448	0.288	4.02E-15	15 ZYG11B
2.11E-31	0.415031461	0.267	0.111	6.79E-27	15 EML5
5.16E-52	0.41437408	0.271	0.081	1.66E-47	15 NXPH2
3.33E-17	0.414034136	0.52	0.363	1.07E-12	15 ZC3H14
1.11E-17	0.412997506	0.601	0.452	3.55E-13	15 PRRC2B
4.61E-31	0.412272413	0.439	0.234	1.48E-26	15 KIF3B
5.89E-19	0.412080125	0.69	0.549	1.89E-14	15 SND1
1.59E-15	0.411472639	0.677	0.521	5.11E-11	15 ST7
2.73E-20	0.410228551	0.551	0.378	8.75E-16	15 MYO5B
6.63E-40	0.410147469	0.33	0.136	2.13E-35	15 SOGA1
1.39E-22	0.409846	0.534	0.354	4.45E-18	15 STAU1
3.28E-14	0.409755228	0.637	0.486	1.05E-09	15 SLC44A3-AS1
1.94E-21	0.409550167	0.63	0.458	6.22E-17	15 ARMH3
6.12E-45	0.40948976	0.256	0.086	1.97E-40	15 SERPINB1
3.93E-21	0.409276679	0.542	0.364	1.26E-16	15 CAPN2
3.14E-32	0.408884734	0.35	0.166	1.01E-27	15 UCHL3
2.77E-19	0.408441362	0.5	0.338	8.91E-15	15 NUDT3
2.07E-37	0.408376948	0.298	0.12	6.66E-33	15 BSG
1.98E-15	0.407371773	0.715	0.598	6.37E-11	15 ZNF644
1.11E-24	0.407224141	0.359	0.193	3.56E-20	15 UHMK1
8.75E-18	0.405951332	0.69	0.545	2.81E-13	15 KAT6B
4.66E-21	0.405685121	0.572	0.392	1.50E-16	15 ACTR3
4.73E-08	0.40558027	0.381	0.284	0.00151879	15 AL359232.1
8.54E-32	0.405155628	0.301	0.132	2.74E-27	15 CARS1
3.00E-30	0.404805204	0.747	0.535	9.62E-26	15 ABCA5
1.45E-17	0.403604341	0.787	0.674	4.64E-13	15 DYRK1A
1.82E-15	0.402514897	0.486	0.343	5.84E-11	15 PIK3CA
1.74E-21	0.400710185	0.319	0.171	5.58E-17	15 HDAC5
7.01E-17	0.4002703	0.619	0.475	2.25E-12	15 MOB1B
7.42E-12	0.400096722	0.392	0.273	2.38E-07	15 NHSL1
1.82E-20	0.39947063	0.253	0.123	5.85E-16	15 DRAM1
5.04E-22	0.399211034	0.693	0.52	1.62E-17	15 EPC2
4.40E-19	0.399112701	0.646	0.459	1.41E-14	15 FAM107B
2.97E-17	0.399075412	0.72	0.59	9.52E-13	15 SCAF8
8.23E-14	0.398965135	0.709	0.578	2.64E-09	15 SUPT3H
1.91E-21	0.398123609	0.399	0.237	6.12E-17	15 ZNF664
5.65E-20	0.398009738	0.605	0.441	1.81E-15	15 CDC73
5.58E-15	0.397023041	0.718	0.55	1.79E-10	15 ZBTB16
1.06E-20	0.396244739	0.312	0.166	3.42E-16	15 DSG2
3.79E-16	0.395866051	0.504	0.354	1.22E-11	15 ATP2A2
1.76E-17	0.395152909	0.552	0.395	5.65E-13	15 LNPEP
6.93E-24	0.394903993	0.415	0.235	2.23E-19	15 RAI1
3.85E-16	0.394817143	0.729	0.614	1.24E-11	15 FARS2
2.88E-06	0.394764551	0.316	0.236	0.092601595	15 NPSR1-AS1
1.89E-33	0.394045896	0.545	0.289	6.07E-29	15 MIR100HG
9.69E-13	0.393886196	0.706	0.583	3.11E-08	15 RAB10
4.51E-16	0.392633663	0.767	0.65	1.45E-11	15 BRWD1
5.54E-20	0.392415771	0.659	0.492	1.78E-15	15 GNB1
1.97E-19	0.391798537	0.643	0.475	6.32E-15	15 CDK8
2.69E-21	0.390944646	0.785	0.676	8.64E-17	15 DLG1

1.41E-19	0.390544568	0.578	0.409	4.53E-15	15 ACACA
5.05E-17	0.389609271	0.518	0.361	1.62E-12	15 CNN3
3.99E-25	0.389544486	0.338	0.173	1.28E-20	15 SCRNI
2.69E-11	0.389541542	0.28	0.181	8.65E-07	15 PTS
3.49E-39	0.389264994	0.323	0.133	1.12E-34	15 RNASEK
1.44E-21	0.387976107	0.789	0.644	4.63E-17	15 ARIH1
4.66E-32	0.387784975	0.26	0.104	1.50E-27	15 FAM3B
4.67E-22	0.387600017	0.399	0.231	1.50E-17	15 GK
7.88E-24	0.387501078	0.61	0.4	2.53E-19	15 OGDHL
6.90E-20	0.387478653	0.457	0.297	2.22E-15	15 LPGAT1
5.87E-15	0.387398485	0.361	0.227	1.89E-10	15 RNF217
3.64E-22	0.386945143	0.412	0.243	1.17E-17	15 SPOPL
2.17E-16	0.386569075	0.765	0.614	6.98E-12	15 DPH6
1.80E-32	0.38588632	0.386	0.186	5.78E-28	15 SPECC1
1.19E-20	0.385322954	0.884	0.798	3.81E-16	15 SBF2
6.88E-25	0.385170578	0.437	0.251	2.21E-20	15 SINHCAF
8.53E-15	0.385034064	0.505	0.365	2.74E-10	15 SESN1
7.79E-25	0.384698031	0.388	0.21	2.50E-20	15 SLC38A11
4.74E-20	0.383950891	0.451	0.28	1.52E-15	15 ANKRD13A
2.21E-18	0.383463373	0.756	0.635	7.11E-14	15 MBNL2
4.11E-12	0.382502751	0.549	0.425	1.32E-07	15 SLX4IP
6.60E-25	0.382497771	0.841	0.697	2.12E-20	15 ZSWIM6
9.62E-15	0.382242944	0.413	0.267	3.09E-10	15 PANTR1
3.56E-15	0.382049383	0.327	0.197	1.14E-10	15 ICA1L
2.53E-12	0.379608503	0.271	0.161	8.11E-08	15 LINC00598
9.10E-19	0.379092904	0.644	0.474	2.92E-14	15 HNRNPDL
2.09E-45	0.379026056	0.603	0.312	6.70E-41	15 ABCC4
1.03E-14	0.37770036	0.671	0.516	3.32E-10	15 KIAA1328
1.58E-23	0.377357831	0.706	0.531	5.06E-19	15 ANKS1A
1.43E-16	0.377072292	0.699	0.561	4.60E-12	15 SNX14
1.20E-15	0.377032334	0.44	0.29	3.87E-11	15 AHNAK
3.27E-21	0.376870246	0.798	0.689	1.05E-16	15 MEF2A
2.34E-15	0.376778486	0.323	0.197	7.51E-11	15 MAPKBP1
4.61E-46	0.376463737	0.273	0.093	1.48E-41	15 SNX18
1.96E-29	0.375759785	0.336	0.161	6.29E-25	15 PLEKHH1
1.18E-32	0.372347472	0.26	0.104	3.79E-28	15 PLAC4
3.74E-24	0.372126232	0.895	0.82	1.20E-19	15 ARID1B
9.26E-19	0.371369903	0.767	0.627	2.97E-14	15 VPS13D
5.04E-26	0.371336164	0.274	0.124	1.62E-21	15 AMPD3
4.22E-16	0.369913196	0.814	0.694	1.35E-11	15 TRAPPC9
1.17E-17	0.368701609	0.727	0.587	3.76E-13	15 ZMYM4
5.87E-15	0.368466526	0.648	0.511	1.88E-10	15 DENND1B
7.57E-06	0.368220505	0.543	0.451	0.243067288	15 PALLD
5.35E-13	0.36821209	0.547	0.402	1.72E-08	15 GULP1
3.83E-29	0.3680766	0.251	0.104	1.23E-24	15 CLPB
4.62E-22	0.367332237	0.264	0.128	1.48E-17	15 BCL6
1.29E-22	0.366903527	0.298	0.151	4.14E-18	15 MUC20P1
6.27E-17	0.366786138	0.397	0.255	2.01E-12	15 DEAF1
1.44E-16	0.366464663	0.513	0.361	4.61E-12	15 RANBP9
8.67E-21	0.365360385	0.457	0.282	2.78E-16	15 SEC11A
8.86E-22	0.36390327	0.291	0.144	2.85E-17	15 GMPR

1.55E-15	0.363723036	0.646	0.491	4.99E-11	15 ATXN10
8.69E-14	0.363682148	0.54	0.392	2.79E-09	15 DIAPH2
1.96E-36	0.363440122	0.33	0.139	6.29E-32	15 SLC16A5
4.11E-14	0.362939332	0.644	0.493	1.32E-09	15 COL4A4
9.66E-17	0.362170161	0.341	0.201	3.10E-12	15 AC139795.1
1.16E-16	0.361825542	0.648	0.483	3.73E-12	15 CLIP1
1.21E-18	0.361193759	0.354	0.204	3.88E-14	15 CAB39L
3.76E-35	0.359951796	0.556	0.301	1.21E-30	15 KLHL3
1.05E-16	0.359588779	0.574	0.434	3.39E-12	15 CCNT2
7.22E-37	0.357911462	0.251	0.093	2.32E-32	15 UBE2D1
1.24E-12	0.357505088	0.403	0.279	3.99E-08	15 SMAD1
1.70E-15	0.357101153	0.482	0.338	5.45E-11	15 TFG
2.45E-12	0.357083759	0.366	0.246	7.88E-08	15 TM9SF4
2.57E-28	0.356465879	0.345	0.162	8.26E-24	15 GCGR
2.03E-17	0.356183108	0.578	0.418	6.51E-13	15 FAM193A
4.33E-17	0.355906297	0.63	0.475	1.39E-12	15 RAB7A
1.93E-14	0.355041358	0.33	0.204	6.21E-10	15 METAP1
9.91E-10	0.353767368	0.352	0.249	3.18E-05	15 RHOA
2.65E-29	0.353634251	0.46	0.254	8.50E-25	15 THEM4
2.68E-13	0.353212572	0.551	0.414	8.60E-09	15 AF241726.1
5.09E-15	0.353016705	0.713	0.59	1.64E-10	15 RAPGEF6
2.15E-13	0.352876633	0.605	0.471	6.92E-09	15 SCFD2
9.60E-18	0.352266116	0.621	0.439	3.08E-13	15 RGL3
1.93E-12	0.352012575	0.424	0.298	6.21E-08	15 RTN3
5.34E-13	0.351724338	0.477	0.343	1.72E-08	15 ARIH2
2.30E-10	0.350263007	0.608	0.495	7.39E-06	15 ACBD6
3.53E-19	0.350079083	0.372	0.218	1.13E-14	15 WDR1
1.86E-17	0.349816491	0.605	0.44	5.97E-13	15 IQGAP1
1.41E-16	0.349534308	0.682	0.545	4.52E-12	15 UBE3C
3.99E-11	0.347199168	0.755	0.681	1.28E-06	15 EIF4G3
2.30E-17	0.347190417	0.444	0.287	7.38E-13	15 COX10
8.18E-20	0.3469883	0.63	0.466	2.63E-15	15 THRAP3
1.29E-11	0.3468877	0.507	0.384	4.14E-07	15 SLC25A27
6.61E-09	0.346568086	0.529	0.424	0.000212186	15 DAAM1
2.85E-19	0.345872649	0.596	0.422	9.16E-15	15 IL6ST
3.93E-17	0.345833172	0.52	0.368	1.26E-12	15 CACUL1
3.71E-16	0.345275452	0.54	0.387	1.19E-11	15 CPT1A
2.35E-29	0.345113373	0.338	0.161	7.56E-25	15 MACROH2A1
5.55E-20	0.345055797	0.309	0.163	1.78E-15	15 PGAP1
5.69E-16	0.343915022	0.547	0.396	1.83E-11	15 PSMD1
1.78E-18	0.342474377	0.646	0.48	5.72E-14	15 BRD4
6.21E-10	0.342377243	0.343	0.228	2.00E-05	15 TSPAN5
1.26E-09	0.342116386	0.291	0.195	4.05E-05	15 RMDN2
1.29E-18	0.341730564	0.406	0.252	4.16E-14	15 USP7
2.80E-11	0.340017536	0.616	0.486	8.99E-07	15 NDRG1
1.43E-18	0.339943719	0.635	0.449	4.60E-14	15 PPM1L
1.11E-27	0.339815324	0.296	0.137	3.58E-23	15 INTS7
1.40E-17	0.339592158	0.498	0.331	4.51E-13	15 DNAJB6
6.59E-15	0.339552205	0.661	0.526	2.12E-10	15 SMG6
7.67E-15	0.33954836	0.368	0.232	2.46E-10	15 MREG
7.45E-15	0.339452896	0.504	0.357	2.39E-10	15 ZNF10

4.03E-22	0.338357021	0.397	0.222	1.29E-17	15 MAN1C1
8.30E-18	0.337973906	0.287	0.158	2.66E-13	15 GMCL1
1.86E-24	0.337360022	0.421	0.237	5.98E-20	15 RGPD2
8.89E-18	0.337275077	0.877	0.777	2.86E-13	15 USP34
5.60E-16	0.336511423	0.657	0.51	1.80E-11	15 RSRP1
9.73E-21	0.33628051	0.567	0.373	3.12E-16	15 VAV2
4.58E-16	0.336063538	0.285	0.164	1.47E-11	15 NUDT9
1.79E-13	0.33563238	0.865	0.783	5.76E-09	15 FGD4
2.11E-16	0.335449743	0.421	0.269	6.79E-12	15 GTF2F2
6.96E-31	0.335281212	0.325	0.145	2.24E-26	15 CAMK2N1
2.05E-18	0.33453049	0.857	0.78	6.57E-14	15 KMT2C
9.26E-42	0.334453796	0.28	0.102	2.97E-37	15 OSER1
6.92E-06	0.334350189	0.296	0.228	0.222260122	15 AL359710.1
7.14E-20	0.33427944	0.783	0.637	2.29E-15	15 GPBP1
1.62E-18	0.333907068	0.292	0.156	5.19E-14	15 EEPD1
4.58E-09	0.333373269	0.386	0.283	0.000147016	15 TEKT4P2
2.85E-11	0.333320522	0.617	0.49	9.16E-07	15 ZFHX3
3.99E-15	0.332916206	0.814	0.695	1.28E-10	15 NCOA1
6.24E-18	0.331837334	0.395	0.242	2.01E-13	15 PLIN5
5.21E-10	0.331190465	0.621	0.5	1.67E-05	15 FBXO34
3.40E-11	0.331038501	0.343	0.227	1.09E-06	15 SQSTM1
9.20E-17	0.32811945	0.401	0.248	2.96E-12	15 SIMC1
8.24E-17	0.32749605	0.372	0.225	2.65E-12	15 BDH1
5.21E-13	0.327214796	0.749	0.626	1.67E-08	15 PAFAH1B1
8.90E-13	0.326541265	0.599	0.457	2.86E-08	15 PCGF5
3.19E-12	0.326246085	0.383	0.257	1.03E-07	15 PRRG1
1.13E-11	0.326188954	0.623	0.502	3.62E-07	15 PTPN3
2.24E-09	0.326141475	0.771	0.675	7.19E-05	15 SHROOM3
2.29E-13	0.324756608	0.597	0.463	7.37E-09	15 SEC24B
1.25E-16	0.323759411	0.774	0.609	4.01E-12	15 TBC1D22A
2.01E-12	0.32337758	0.498	0.364	6.46E-08	15 UBE2G1
1.25E-14	0.323040136	0.525	0.375	4.00E-10	15 DERA
8.87E-12	0.322994797	0.473	0.346	2.85E-07	15 GPI
3.16E-14	0.322602835	0.718	0.595	1.01E-09	15 LCOR
4.06E-14	0.322532827	0.527	0.376	1.30E-09	15 TRAPPC12
6.32E-14	0.322292181	0.617	0.473	2.03E-09	15 FAM13B
2.15E-11	0.322270293	0.691	0.57	6.90E-07	15 ARID2
4.12E-18	0.322073257	0.859	0.707	1.32E-13	15 RBM47
4.40E-18	0.32201499	0.572	0.382	1.41E-13	15 EFHD1
2.57E-17	0.321620183	0.457	0.297	8.24E-13	15 PTPN9
1.58E-12	0.321551397	0.652	0.532	5.07E-08	15 NINL
2.56E-12	0.321342907	0.572	0.444	8.23E-08	15 OLA1
3.56E-11	0.321258413	0.621	0.494	1.14E-06	15 RSRC1
8.79E-15	0.321185614	0.708	0.57	2.82E-10	15 PHKB
3.70E-15	0.320893546	0.525	0.382	1.19E-10	15 MED27
1.39E-15	0.320850833	0.628	0.482	4.45E-11	15 TLK2
4.71E-11	0.320840257	0.572	0.448	1.51E-06	15 NCOA6
1.18E-14	0.320380092	0.291	0.169	3.78E-10	15 ZNF75A
1.43E-16	0.320251079	0.643	0.469	4.59E-12	15 CSNK2A1
2.85E-13	0.31919781	0.565	0.441	9.16E-09	15 SF1
1.87E-15	0.318934516	0.735	0.625	6.00E-11	15 COP1

2.31E-26	0.317437988	0.265	0.116	7.43E-22	15 ITGB3
5.29E-12	0.317406788	0.697	0.554	1.70E-07	15 SRSF5
1.27E-14	0.317252519	0.635	0.496	4.07E-10	15 RPTOR
8.57E-14	0.316070903	0.839	0.738	2.75E-09	15 SPIDR
5.06E-12	0.315499121	0.733	0.626	1.62E-07	15 ARID4B
2.18E-12	0.315468384	0.527	0.399	6.99E-08	15 LYST
1.42E-16	0.315049024	0.403	0.254	4.55E-12	15 DEPDC5
5.09E-14	0.314497186	0.681	0.532	1.64E-09	15 PPP1R12B
8.08E-23	0.314151077	0.514	0.306	2.59E-18	15 UGT8
5.14E-09	0.313788091	0.619	0.515	0.000165019	15 ELF1
2.22E-13	0.313470388	0.287	0.172	7.12E-09	15 ECE1
1.11E-09	0.313391182	0.451	0.347	3.57E-05	15 DNAJC3
1.00E-14	0.312574316	0.39	0.253	3.21E-10	15 AC233699.1
8.60E-13	0.312234993	0.628	0.469	2.76E-08	15 SSBP2
4.11E-17	0.311936329	0.318	0.182	1.32E-12	15 TES
5.65E-12	0.31147053	0.565	0.428	1.81E-07	15 DNMI1L
3.93E-10	0.310066937	0.518	0.401	1.26E-05	15 LARP1B
1.65E-12	0.309835818	0.487	0.341	5.29E-08	15 CASZ1
5.41E-19	0.309763706	0.343	0.189	1.74E-14	15 PRKX
1.03E-14	0.308705799	0.569	0.412	3.32E-10	15 EZR
8.66E-07	0.308420126	0.354	0.271	0.027813793	15 KDM3A
2.71E-13	0.307836011	0.807	0.719	8.72E-09	15 EXOC6B
2.07E-11	0.306893544	0.487	0.36	6.64E-07	15 PDHX
2.00E-12	0.305646341	0.704	0.598	6.42E-08	15 KTN1
2.73E-11	0.305369673	0.28	0.176	8.76E-07	15 SBF2-AS1
3.56E-11	0.304912004	0.704	0.591	1.14E-06	15 ZNF407
1.60E-15	0.304878738	0.415	0.267	5.14E-11	15 JUP
2.18E-14	0.304708937	0.477	0.334	7.01E-10	15 NPEPPSP1
4.24E-10	0.30454281	0.457	0.342	1.36E-05	15 AGO2
2.95E-11	0.304454657	0.478	0.348	9.48E-07	15 CRPPA
1.39E-10	0.304156461	0.507	0.391	4.47E-06	15 MECP2
1.53E-18	0.303903815	0.372	0.221	4.93E-14	15 PMPCB
2.15E-25	0.303755475	0.886	0.738	6.91E-21	15 OXR1
1.60E-14	0.302416808	0.417	0.273	5.15E-10	15 EXT2
2.60E-16	0.301804812	0.471	0.316	8.34E-12	15 RHEB
4.44E-11	0.301243365	0.307	0.196	1.43E-06	15 EPN1
3.73E-11	0.300218977	0.745	0.644	1.20E-06	15 RAPGEF2
5.51E-13	0.298609401	0.803	0.704	1.77E-08	15 ITFG1
4.13E-12	0.298477056	0.679	0.55	1.33E-07	15 DIS3L2
9.82E-18	0.298000489	0.666	0.519	3.15E-13	15 RANBP2
7.75E-09	0.297348306	0.395	0.293	0.00024896	15 LINC01090
5.12E-08	0.296755573	0.468	0.363	0.001643027	15 IFRD1
4.20E-20	0.296225237	0.303	0.163	1.35E-15	15 PRKRA
8.79E-15	0.294779505	0.751	0.657	2.82E-10	15 UBR3
3.99E-11	0.293885551	0.594	0.463	1.28E-06	15 RNF130
2.68E-05	0.293458275	0.375	0.299	0.860331504	15 CEMIP2
6.49E-10	0.292609576	0.715	0.615	2.08E-05	15 GPATCH8
1.27E-16	0.292120866	0.256	0.137	4.07E-12	15 PLAG1
1.21E-13	0.291923376	0.352	0.227	3.89E-09	15 UGGT1
1.38E-17	0.291886963	0.273	0.143	4.43E-13	15 CTSB
4.39E-08	0.291418208	0.715	0.63	0.001411108	15 ZNF292

2.08E-18	0.291405567	0.258	0.135	6.68E-14	15 TMEM33
1.18E-14	0.291348735	0.518	0.365	3.81E-10	15 CDC27
3.21E-10	0.290837683	0.46	0.337	1.03E-05	15 RALY
2.07E-11	0.290187561	0.356	0.239	6.63E-07	15 OCLN
7.38E-08	0.290007665	0.374	0.285	0.002369479	15 DYNC1LI2
3.85E-07	0.289959145	0.61	0.53	0.01235238	15 DCAF6
3.76E-09	0.28961363	0.641	0.531	0.000120893	15 KIF16B
1.36E-17	0.289535788	0.406	0.253	4.38E-13	15 SHTN1
2.32E-07	0.289518559	0.435	0.342	0.007435827	15 PIK3R1
3.40E-11	0.289370392	0.366	0.254	1.09E-06	15 LYPLA1
8.97E-13	0.289210847	0.655	0.519	2.88E-08	15 FBXW7
8.10E-15	0.288859055	0.538	0.363	2.60E-10	15 GRHL2
2.48E-11	0.288391322	0.412	0.273	7.97E-07	15 ZNF208
4.52E-13	0.288001767	0.581	0.444	1.45E-08	15 AC132008.2
3.01E-09	0.287337552	0.312	0.212	9.67E-05	15 AL713999.2
4.01E-13	0.2871851	0.608	0.448	1.29E-08	15 NNT
4.80E-15	0.286738621	0.421	0.265	1.54E-10	15 FAM189A1
4.64E-06	0.286007601	0.686	0.621	0.148950343	15 TBL1XR1
5.14E-08	0.285877874	0.3	0.205	0.001651225	15 FSTL4
4.39E-14	0.285484523	0.829	0.73	1.41E-09	15 STAG1
6.33E-13	0.285415284	0.738	0.611	2.03E-08	15 HNRNPH1
1.14E-21	0.2852922	0.664	0.432	3.67E-17	15 CLCNKB
5.28E-13	0.285150994	0.765	0.649	1.70E-08	15 ARHGEF12
3.67E-09	0.285021923	0.621	0.515	0.000117822	15 NEK7
1.77E-12	0.284809897	0.256	0.152	5.68E-08	15 OGFRL1
1.72E-14	0.284436278	0.392	0.258	5.52E-10	15 PDCD10
4.59E-10	0.28350659	0.449	0.332	1.48E-05	15 KPNA1
3.50E-12	0.282657916	0.756	0.642	1.12E-07	15 CSNK1A1
1.01E-11	0.282640176	0.617	0.487	3.25E-07	15 KIDINS220
2.05E-09	0.281772173	0.282	0.185	6.59E-05	15 SHROOM2
2.86E-13	0.281692444	0.46	0.325	9.20E-09	15 SEPTIN10
1.05E-13	0.281444979	0.291	0.172	3.38E-09	15 EEF1D
7.21E-17	0.281151804	0.278	0.154	2.32E-12	15 IDH3A
4.48E-07	0.280429622	0.287	0.199	0.014387848	15 ADGRF1
2.13E-13	0.280281033	0.413	0.274	6.84E-09	15 DNAJC5
2.02E-10	0.279045375	0.733	0.637	6.49E-06	15 USP25
1.44E-11	0.278846505	0.65	0.529	4.63E-07	15 CNOT4
3.36E-09	0.278814971	0.608	0.502	0.000107991	15 NAP1L4
1.01E-07	0.278796744	0.386	0.289	0.00325525	15 ADAM22
2.17E-12	0.278371265	0.753	0.634	6.96E-08	15 CDK13
7.14E-11	0.27828561	0.388	0.273	2.29E-06	15 AC104109.3
4.21E-17	0.278174747	0.325	0.187	1.35E-12	15 VDAC1
1.32E-12	0.278075743	0.514	0.372	4.24E-08	15 USP12
4.80E-09	0.277229248	0.608	0.501	0.0001543	15 AMBRA1
1.88E-23	0.27714229	0.269	0.124	6.04E-19	15 HLA-B
7.82E-13	0.276552284	0.439	0.298	2.51E-08	15 FZD6
1.44E-12	0.276257655	0.592	0.442	4.63E-08	15 USP32
7.63E-13	0.274756099	0.507	0.373	2.45E-08	15 FAR1
6.42E-10	0.274412815	0.769	0.658	2.06E-05	15 NSMCE2
1.34E-10	0.274288141	0.724	0.606	4.29E-06	15 AP000311.1
9.48E-15	0.274018738	0.307	0.177	3.04E-10	15 AHR

1.48E-14	0.273844056	0.276	0.155	4.74E-10	15 DMTN
3.49E-10	0.273753067	0.309	0.203	1.12E-05	15 PLCH1
5.11E-08	0.272750143	0.552	0.46	0.001640389	15 CCDC50
9.93E-10	0.271284765	0.74	0.623	3.19E-05	15 PPP1R9A
3.25E-12	0.271051133	0.596	0.461	1.05E-07	15 SMC5
2.19E-13	0.270710019	0.486	0.337	7.04E-09	15 MPP7
1.95E-13	0.270707156	0.307	0.184	6.26E-09	15 ARAP1
2.56E-16	0.270084709	0.336	0.197	8.21E-12	15 DPY19L2P1
1.00E-12	0.26908683	0.3	0.184	3.22E-08	15 EIF1
7.70E-07	0.268842709	0.435	0.341	0.024727199	15 ATP8A1
4.02E-09	0.268839812	0.516	0.4	0.000128977	15 RCOR1
2.10E-06	0.268743341	0.529	0.435	0.06754333	15 SRGAP3
2.00E-08	0.268231578	0.554	0.44	0.00064258	15 AF127577.4
2.04E-10	0.267168964	0.43	0.306	6.55E-06	15 C1GALT1
4.96E-11	0.266775737	0.433	0.315	1.59E-06	15 USP10
1.22E-11	0.265473817	0.397	0.273	3.92E-07	15 MED14
3.12E-12	0.265188986	0.327	0.211	1.00E-07	15 USP42
7.37E-09	0.264484393	0.468	0.356	0.000236766	15 NRIP1
7.25E-09	0.262908486	0.599	0.484	0.000233	15 CYSTM1
1.34E-13	0.26272828	0.513	0.367	4.31E-09	15 PITPNB
1.08E-09	0.262498296	0.514	0.403	3.47E-05	15 SEPTIN7
2.21E-10	0.261531938	0.616	0.48	7.11E-06	15 STRBP
4.08E-12	0.261446712	0.448	0.314	1.31E-07	15 BEND7
1.26E-09	0.261261487	0.805	0.714	4.06E-05	15 NCOA2
1.24E-10	0.261144763	0.41	0.293	3.97E-06	15 CMC2
8.01E-10	0.260773076	0.561	0.424	2.57E-05	15 HLCS
4.04E-08	0.260479142	0.718	0.614	0.001297887	15 MNAT1
4.83E-14	0.259962472	0.475	0.326	1.55E-09	15 RAD23B
3.02E-08	0.259844949	0.628	0.535	0.000971116	15 ATAD2B
3.43E-10	0.259658256	0.621	0.491	1.10E-05	15 CLEC16A
2.45E-09	0.258824955	0.549	0.436	7.86E-05	15 RAB6A
2.27E-06	0.258686919	0.491	0.405	0.072996999	15 RYK
4.55E-09	0.258660944	0.57	0.455	0.000146109	15 GPATCH2
1.61E-09	0.25806616	0.648	0.523	5.18E-05	15 CUL3
1.91E-09	0.257921406	0.673	0.585	6.12E-05	15 HECTD1
4.75E-09	0.257884089	0.767	0.672	0.000152473	15 PDE8A
2.30E-06	0.257517608	0.661	0.569	0.073793971	15 NBAS
7.55E-13	0.257154074	0.319	0.203	2.43E-08	15 AC233968.1
3.69E-08	0.257150632	0.551	0.445	0.0011837	15 SCFD1
1.01E-11	0.257019608	0.475	0.347	3.23E-07	15 ATF2
3.29E-08	0.256722122	0.26	0.177	0.001057196	15 PDIA3
9.78E-13	0.25646229	0.491	0.345	3.14E-08	15 RBL2
8.10E-10	0.256313089	0.486	0.37	2.60E-05	15 B4GALT5
5.37E-09	0.256161171	0.374	0.274	0.000172418	15 OTUD4
5.32E-21	0.25603501	0.291	0.146	1.71E-16	15 HLA-C
9.58E-09	0.254575938	0.287	0.193	0.000307624	15 CALCOCO2
5.17E-14	0.253680354	0.574	0.417	1.66E-09	15 TRAPPC10
1.27E-11	0.25344034	0.662	0.544	4.07E-07	15 SMARCC1
1.15E-07	0.253043024	0.482	0.378	0.003697831	15 NAA35
1.81E-07	0.252876684	0.549	0.462	0.005801161	15 MTDH
1.07E-10	0.251755676	0.52	0.393	3.45E-06	15 TAF3

1.34E-09	0.251619838	0.5	0.384	4.29E-05	15 HDLBP
1.49E-13	0.251368568	0.502	0.354	4.78E-09	15 RAD54L2
1.87E-09	0.250660552	0.451	0.328	6.02E-05	15 METTL25
5.80E-08	0.250656068	0.54	0.433	0.001862151	15 CMTM4
3.93E-07	0.250448342	0.733	0.652	0.012634341	15 CTNNA1
2.01E-18	0.250298232	0.269	0.138	6.44E-14	15 TFDPI
7.28E-08	0.250205748	0.455	0.349	0.002339674	15 XRN2
0	4.304665703	0.864	0.049	0	16 ARHGAP15
0	3.961908885	0.805	0.035	0	16 PTPRC
0	3.499119555	0.722	0.04	0	16 PRKCB
0	3.277455735	0.728	0.087	0	16 CHST11
1.19E-135	3.136965715	0.391	0.059	3.82E-131	16 AOA1
5.72E-179	3.134459655	0.874	0.326	1.84E-174	16 ANKRD44
0	3.05687716	0.742	0.04	0	16 DOCK2
1.70E-301	3.046277365	0.613	0.07	5.45E-297	16 RIPOR2
4.65E-82	3.028542273	0.427	0.111	1.49E-77	16 AFF3
2.04E-21	2.99690584	0.295	0.139	6.56E-17	16 BANK1
0	2.954144942	0.321	0.01	0	16 THEMIS
3.63E-183	2.894502228	0.589	0.104	1.16E-178	16 FYN
0	2.893638427	0.662	0.006	0	16 IKZF1
0	2.715122411	0.656	0.052	0	16 INPP5D
6.74E-207	2.711232907	0.768	0.171	2.16E-202	16 ELMO1
7.74E-157	2.643354259	0.583	0.125	2.48E-152	16 SMAP2
2.63E-212	2.595723112	0.695	0.134	8.46E-208	16 CAMK1D
2.01E-223	2.588535959	0.275	0.017	6.45E-219	16 IFNG-AS1
0	2.540585643	0.536	0.034	0	16 ITGA4
1.40E-51	2.520804034	0.523	0.252	4.51E-47	16 PARP8
0	2.509624155	0.265	0.003	0	16 IL7R
6.84E-56	2.469001053	0.493	0.202	2.20E-51	16 PRKCH
2.78E-203	2.439082878	0.262	0.017	8.94E-199	16 LINC01934
0	2.383199687	0.599	0.054	0	16 FLI1
5.06E-252	2.358487652	0.344	0.024	1.62E-247	16 STAT4
2.48E-86	2.357668997	0.728	0.371	7.98E-82	16 PIP4K2A
3.58E-299	2.325979793	0.533	0.051	1.15E-294	16 CD44
4.17E-153	2.310308362	0.311	0.033	1.34E-148	16 CAMK4
2.63E-296	2.295955823	0.44	0.034	8.46E-292	16 FYB1
9.04E-256	2.283556547	0.308	0.019	2.90E-251	16 CD247
2.57E-194	2.266514061	0.715	0.149	8.24E-190	16 DOCK10
1.96E-245	2.264754604	0.818	0.155	6.31E-241	16 CELF2
1.06E-113	2.231176149	0.354	0.056	3.40E-109	16 HLA-DRB1
1.69E-305	2.196630556	0.517	0.047	5.43E-301	16 STK17B
1.28E-34	2.190234803	0.384	0.164	4.12E-30	16 ZEB2
2.00E-102	2.181654271	0.536	0.148	6.41E-98	16 TMEM131L
9.23E-114	2.150195217	0.43	0.084	2.96E-109	16 SEL1L3
8.94E-128	2.143220303	0.533	0.119	2.87E-123	16 TNFAIP8
1.41E-70	2.134754513	0.626	0.292	4.53E-66	16 CCND3
1.10E-106	2.117252171	0.715	0.253	3.52E-102	16 RUNX1
8.53E-85	2.105536221	0.52	0.166	2.74E-80	16 CLEC2D
1.76E-164	2.078154984	0.272	0.023	5.65E-160	16 WDFY4
2.98E-33	2.069656313	0.301	0.108	9.59E-29	16 A2M
1.44E-41	2.060265875	0.487	0.243	4.61E-37	16 JAZF1

0	2.045835222	0.401	0.018	0	16 CARD11
1.25E-258	2.045569281	0.364	0.026	4.03E-254	16 SAMSN1
8.82E-77	2.044859928	0.401	0.099	2.83E-72	16 PAG1
1.81E-148	2.033252933	0.474	0.08	5.80E-144	16 CYTIP
7.91E-207	2.028256781	0.48	0.059	2.54E-202	16 IFI16
1.15E-103	2.028165905	0.695	0.251	3.68E-99	16 DOCK8
6.88E-98	2.027680307	0.55	0.162	2.21E-93	16 SH3KBP1
1.69E-255	2.025082569	0.45	0.042	5.42E-251	16 ARHGAP25
5.56E-252	2.023355793	0.328	0.022	1.79E-247	16 BCL11B
6.31E-97	2.020981619	0.603	0.209	2.03E-92	16 STK4
0	2.0176459	0.394	0.005	0	16 RHOH
0	2.016080715	0.454	0.008	0	16 CD53
0	2.014544898	0.315	0.01	0	16 ITK
5.34E-59	2.004677048	0.44	0.149	1.71E-54	16 ETS1
5.81E-42	2.000333217	0.348	0.122	1.87E-37	16 LYN
2.38E-90	1.996826182	0.315	0.055	7.65E-86	16 CD96
1.07E-249	1.988326998	0.503	0.054	3.43E-245	16 PREX1
1.39E-37	1.977131663	0.321	0.112	4.47E-33	16 TBXAS1
4.46E-54	1.960019266	0.285	0.069	1.43E-49	16 KCNQ5
3.08E-181	1.959835233	0.48	0.067	9.88E-177	16 APBB1IP
5.27E-67	1.952186081	0.672	0.366	1.69E-62	16 FNBP1
5.26E-88	1.940108559	0.48	0.128	1.69E-83	16 SLC9A9
8.76E-57	1.93418189	0.725	0.544	2.81E-52	16 SMCHD1
0	1.932937578	0.361	0.008	0	16 IKZF3
1.05E-51	1.927001152	0.695	0.474	3.38E-47	16 FCHSD2
3.46E-31	1.926508093	0.566	0.368	1.11E-26	16 MGAT5
2.18E-28	1.917866431	0.464	0.26	6.99E-24	16 PDE3B
7.85E-199	1.915641486	0.262	0.017	2.52E-194	16 CD69
1.41E-78	1.911912376	0.808	0.554	4.52E-74	16 FOXN3
6.20E-34	1.889373653	0.619	0.475	1.99E-29	16 ETV6
1.51E-96	1.888801465	0.424	0.093	4.86E-92	16 XYLT1
9.03E-89	1.872605424	0.311	0.054	2.90E-84	16 ADAM28
2.52E-302	1.869339914	0.427	0.031	8.09E-298	16 AKNA
7.49E-163	1.865019945	0.258	0.021	2.40E-158	16 SRGN
1.11E-75	1.862822768	0.328	0.069	3.56E-71	16 CD74
0	1.857108001	0.374	0.01	0	16 EMB
0	1.839957779	0.351	0.011	0	16 SP140
3.84E-141	1.835094201	0.52	0.1	1.23E-136	16 DOCK11
0	1.831609309	0.334	0.006	0	16 PIK3R5
5.20E-98	1.816826722	0.331	0.056	1.67E-93	16 AC009093.8
6.73E-29	1.80439569	0.351	0.159	2.16E-24	16 TTC39C
2.62E-74	1.795440545	0.341	0.076	8.42E-70	16 PDE4B
3.07E-92	1.762274802	0.272	0.039	9.85E-88	16 HLA-DRB5
1.80E-24	1.740080098	0.288	0.121	5.80E-20	16 SYTL3
2.83E-165	1.737518508	0.308	0.03	9.09E-161	16 GNG2
1.96E-29	1.735211914	0.533	0.326	6.30E-25	16 LDLRAD4
2.38E-50	1.734214059	0.652	0.415	7.63E-46	16 CYTH1
2.53E-224	1.729498964	0.298	0.02	8.13E-220	16 SLFN12L
4.09E-46	1.721988199	0.672	0.47	1.31E-41	16 CDC42SE2
1.12E-194	1.717636885	0.364	0.035	3.60E-190	16 C22orf34
8.67E-32	1.716955358	0.589	0.452	2.78E-27	16 PPP2R5C

8.22E-75	1.710522291	0.864	0.742	2.64E-70	16 MBNL1
1.10E-101	1.710519004	0.387	0.074	3.54E-97	16 NFATC2
0	1.710049907	0.341	0.013	0	16 LCPI
0	1.703787011	0.344	0.003	0	16 TMC8
4.82E-224	1.696473472	0.258	0.015	1.55E-219	16 CYRIA
6.59E-241	1.684451521	0.348	0.025	2.12E-236	16 P2RY8
0	1.682976223	0.325	0.012	0	16 RCSD1
5.08E-45	1.677030598	0.285	0.079	1.63E-40	16 CIITA
8.46E-89	1.676175609	0.401	0.09	2.72E-84	16 STK10
7.44E-89	1.66747192	0.374	0.078	2.39E-84	16 RASSF3
1.86E-114	1.663415271	0.358	0.057	5.97E-110	16 RASA3
3.12E-33	1.656341475	0.593	0.42	1.00E-28	16 RAPGEF1
4.53E-22	1.646430839	0.331	0.164	1.45E-17	16 MARCHF1
1.15E-92	1.633063998	0.298	0.048	3.69E-88	16 ADAM19
1.36E-43	1.63223912	0.497	0.241	4.37E-39	16 CEP85L
1.54E-22	1.621769484	0.47	0.306	4.94E-18	16 SFMBT2
1.56E-108	1.619693061	0.275	0.035	5.00E-104	16 NIBAN1
1.54E-24	1.61081386	0.411	0.223	4.93E-20	16 MEF2C
4.69E-214	1.61059591	0.305	0.022	1.51E-209	16 ITGAL
1.06E-22	1.608816535	0.321	0.155	3.41E-18	16 GRK3
0	1.580050873	0.311	0.005	0	16 IL10RA
2.14E-208	1.564714108	0.288	0.02	6.87E-204	16 TMEM156
1.71E-35	1.559492285	0.411	0.185	5.48E-31	16 NEDD9
3.84E-39	1.552681487	0.411	0.162	1.23E-34	16 PPP1R16B
8.85E-57	1.552488255	0.331	0.087	2.84E-52	16 PVT1
0	1.551405581	0.295	0.009	0	16 LCP2
6.47E-22	1.5490085	0.437	0.273	2.08E-17	16 VOPP1
0	1.548984621	0.252	0.005	0	16 ZNF831
2.60E-40	1.548239251	0.517	0.271	8.35E-36	16 RESF1
1.45E-71	1.543106337	0.411	0.112	4.66E-67	16 CCDC88C
2.60E-36	1.53680184	0.623	0.462	8.34E-32	16 ATM
3.02E-45	1.534944019	0.639	0.348	9.71E-41	16 ST6GAL1
4.54E-195	1.520959721	0.305	0.024	1.46E-190	16 POU2F2
1.38E-44	1.517338811	0.735	0.612	4.42E-40	16 TBC1D22A
2.43E-41	1.512326952	0.394	0.156	7.81E-37	16 PTK2B
4.72E-21	1.495611489	0.328	0.157	1.52E-16	16 HDAC9
3.37E-60	1.494203181	0.805	0.603	1.08E-55	16 UTRN
2.15E-46	1.483574616	0.262	0.065	6.90E-42	16 DISC1
1.78E-36	1.478570198	0.404	0.177	5.73E-32	16 B2M
0	1.47474625	0.308	0.003	0	16 NCKAP1L
4.38E-39	1.468730231	0.421	0.18	1.41E-34	16 ZC3HAV1
8.93E-42	1.467167884	0.444	0.197	2.87E-37	16 SEPTIN6
9.75E-33	1.46565326	0.493	0.276	3.13E-28	16 STIM1
1.06E-23	1.458837176	0.566	0.452	3.41E-19	16 NCOA3
1.47E-218	1.449037829	0.325	0.024	4.72E-214	16 TRAF3IP3
6.73E-10	1.448844615	0.513	0.512	2.16E-05	16 SKAP1
1.67E-40	1.44819976	0.447	0.186	5.35E-36	16 PCED1B
0	1.444015762	0.328	0.013	0	16 HCLS1
3.08E-29	1.441041673	0.427	0.222	9.90E-25	16 CCM2
7.83E-38	1.435197472	0.427	0.19	2.51E-33	16 MYO9B
1.54E-16	1.424928301	0.281	0.142	4.95E-12	16 LINC01619

1.01E-40	1.414268871	0.487	0.229	3.25E-36	16 AC010894.2
4.86E-42	1.413302209	0.272	0.076	1.56E-37	16 RIN3
6.08E-76	1.412189686	0.301	0.058	1.95E-71	16 MYO1F
1.29E-93	1.409437871	0.331	0.058	4.14E-89	16 NLRC5
2.14E-16	1.407845896	0.513	0.398	6.89E-12	16 PITPNC1
6.20E-289	1.401132616	0.278	0.013	1.99E-284	16 ST8SIA4
2.70E-26	1.384737413	0.629	0.536	8.67E-22	16 DPYD
1.79E-19	1.37707703	0.639	0.597	5.74E-15	16 EML4
3.11E-15	1.371247491	0.421	0.295	1.00E-10	16 FUT8
1.91E-21	1.370156706	0.364	0.197	6.14E-17	16 PDCD4
3.12E-10	1.35945783	0.566	0.549	1.00E-05	16 BCL2
2.74E-37	1.359125355	0.265	0.079	8.79E-33	16 MCUB
1.21E-19	1.354046833	0.391	0.239	3.90E-15	16 NCK2
3.61E-13	1.34251612	0.513	0.438	1.16E-08	16 CNOT6L
9.93E-23	1.333516914	0.543	0.42	3.19E-18	16 RASA2
5.53E-11	1.331732532	0.421	0.346	1.77E-06	16 ARAP2
6.36E-11	1.329966123	0.252	0.147	2.04E-06	16 TC2N
1.13E-41	1.323780632	0.288	0.085	3.62E-37	16 PIK3CD
1.92E-24	1.317713225	0.414	0.234	6.16E-20	16 STK17A
6.06E-46	1.317625975	0.305	0.089	1.94E-41	16 AL159163.1
2.77E-53	1.315585852	0.272	0.063	8.90E-49	16 ANTXR2
1.52E-06	1.315464207	0.305	0.24	0.048745097	16 SERINC5
1.36E-24	1.313569471	0.397	0.214	4.37E-20	16 AP000295.1
3.67E-11	1.3024312	0.374	0.261	1.18E-06	16 TNIK
5.68E-38	1.300215468	0.295	0.092	1.83E-33	16 GRK5
9.82E-19	1.295132335	0.48	0.348	3.15E-14	16 PDE7A
1.58E-23	1.294643273	0.43	0.256	5.07E-19	16 TRAF3
3.88E-17	1.293932428	0.444	0.318	1.25E-12	16 RPS6KA3
1.71E-30	1.282798895	0.387	0.181	5.50E-26	16 CNTRL
6.19E-79	1.281199661	0.295	0.053	1.99E-74	16 NLRP1
1.62E-29	1.273226658	0.407	0.202	5.21E-25	16 NIN
2.50E-200	1.270102443	0.268	0.018	8.04E-196	16 CD37
3.57E-19	1.259127748	0.394	0.237	1.15E-14	16 EVL
5.04E-18	1.247484705	0.454	0.305	1.62E-13	16 NR3C1
5.83E-26	1.246465116	0.474	0.282	1.87E-21	16 INPP4A
5.23E-21	1.24288269	0.328	0.166	1.68E-16	16 RAB8B
1.83E-38	1.238502791	0.838	0.781	5.87E-34	16 FOXP1
1.98E-97	1.237466861	0.281	0.04	6.35E-93	16 GVINP1
5.48E-34	1.236242735	0.748	0.695	1.76E-29	16 AKAP13
6.47E-32	1.236003124	0.325	0.125	2.08E-27	16 HLA-B
1.90E-17	1.227484097	0.457	0.321	6.11E-13	16 PARP14
4.02E-32	1.223014365	0.252	0.079	1.29E-27	16 SIDT1
4.19E-06	1.222321838	0.414	0.402	0.134661775	16 LYST
7.18E-12	1.216408867	0.553	0.522	2.31E-07	16 FBXW7
1.67E-20	1.211674501	0.596	0.52	5.35E-16	16 PACS1
6.39E-26	1.202415437	0.288	0.115	2.05E-21	16 SP110
1.17E-09	1.196955371	0.43	0.372	3.76E-05	16 MBP
5.30E-20	1.186925145	0.626	0.574	1.70E-15	16 SSH2
1.16E-14	1.186864988	0.285	0.153	3.73E-10	16 MCTP2
8.36E-13	1.181720947	0.391	0.289	2.68E-08	16 GRB2
9.50E-34	1.176749846	0.295	0.102	3.05E-29	16 ARHGEF1

3.63E-08	1.173267821	0.374	0.309	0.001165045	16 AC008878.3
2.69E-13	1.169106138	0.288	0.162	8.65E-09	16 TRERF1
1.38E-109	1.166682756	0.255	0.03	4.42E-105	16 ATP2A3
0.00012262	1.164033642	0.344	0.3	1	16 CEMIP2
1.70E-10	1.158800976	0.411	0.341	5.45E-06	16 LINC00869
3.19E-17	1.157324036	0.308	0.164	1.02E-12	16 IQSEC1
3.53E-18	1.156387668	0.354	0.207	1.13E-13	16 CD47
5.12E-43	1.154122754	0.311	0.093	1.64E-38	16 HLA-E
7.77E-09	1.153993741	0.483	0.471	0.000249672	16 CASK
1.32E-31	1.153729929	0.278	0.096	4.25E-27	16 PRKY
4.87E-24	1.152485152	0.325	0.148	1.56E-19	16 HLA-C
3.24E-14	1.151598936	0.464	0.348	1.04E-09	16 SLC38A1
1.61E-09	1.150665943	0.301	0.209	5.18E-05	16 REL
2.53E-24	1.143795261	0.573	0.439	8.13E-20	16 SP100
6.62E-22	1.142646713	0.599	0.519	2.13E-17	16 MYCBP2
9.80E-19	1.138745076	0.364	0.206	3.15E-14	16 TPK1
3.61E-14	1.129310542	0.447	0.343	1.16E-09	16 MAP4K4
6.95E-16	1.129256086	0.272	0.135	2.23E-11	16 DIPK1A
3.16E-14	1.128893044	0.295	0.167	1.01E-09	16 DGKD
2.73E-22	1.127769743	0.285	0.125	8.78E-18	16 AC092821.3
1.34E-06	1.127197981	0.411	0.394	0.04299605	16 RNF149
8.96E-36	1.126307138	0.295	0.096	2.88E-31	16 FGD3
6.61E-08	1.124549664	0.291	0.209	0.002122547	16 PRKCCQ
1.55E-18	1.120743614	0.427	0.287	4.98E-14	16 ARPC2
2.44E-12	1.115273949	0.5	0.438	7.84E-08	16 RAP1A
5.96E-14	1.110985969	0.457	0.35	1.91E-09	16 ABHD15-AS1
6.26E-07	1.109350985	0.331	0.27	0.020101324	16 KAT2B
1.09E-07	1.109029886	0.348	0.281	0.003494586	16 SORL1
1.76E-11	1.106310364	0.331	0.218	5.64E-07	16 SYK
4.90E-12	1.106078199	0.295	0.182	1.57E-07	16 TMEM181
1.04E-08	1.103741439	0.391	0.328	0.000333752	16 PRDM2
1.62E-17	1.103232177	0.331	0.184	5.22E-13	16 CYLD
3.25E-16	1.092081003	0.51	0.379	1.04E-11	16 IQGAP2
0.00019573	1.091547778	0.56	0.618	1	16 SIPA1L1
1.44E-12	1.086849079	0.278	0.162	4.63E-08	16 SARAF
1.77E-15	1.083452419	0.258	0.129	5.68E-11	16 TRAF5
8.70E-18	1.083197254	0.55	0.461	2.79E-13	16 JAK1
1.17E-33	1.076443576	0.735	0.669	3.74E-29	16 ANKRD11
8.77E-66	1.069044024	0.272	0.053	2.82E-61	16 ARHGEF6
5.11E-33	1.063065715	0.785	0.804	1.64E-28	16 TNRC6B
8.27E-07	1.060500902	0.404	0.364	0.026548074	16 NOTCH2
1.15E-08	1.057198094	0.457	0.423	0.00037002	16 EPB41
2.45E-12	1.05011807	0.374	0.263	7.87E-08	16 MANBA
1.08E-10	1.046692791	0.603	0.614	3.47E-06	16 KLF12
1.32E-06	1.043785372	0.391	0.344	0.042516736	16 PIK3R1
4.27E-15	1.040076862	0.626	0.642	1.37E-10	16 KDM4C
4.19E-07	1.038872355	0.437	0.407	0.013449447	16 CAMK2D
3.70E-22	1.03626098	0.288	0.127	1.19E-17	16 TTC13
5.12E-07	1.033943326	0.331	0.269	0.016429186	16 PABPC1
6.28E-13	1.027512447	0.444	0.346	2.02E-08	16 SEMA4D
8.26E-15	1.027344116	0.334	0.196	2.65E-10	16 RPS6KA5

3.78E-11	1.025709949	0.46	0.372	1.21E-06	16 DLEU2
9.69E-15	1.017188098	0.255	0.13	3.11E-10	16 ARNTL
1.08E-15	1.016057737	0.318	0.18	3.46E-11	16 CARD8
4.93E-27	1.012381652	0.844	0.806	1.58E-22	16 AC016831.6
2.50E-12	1.011456398	0.56	0.525	8.03E-08	16 ANKRD36
2.32E-09	1.010640405	0.52	0.519	7.44E-05	16 TAOK3
5.61E-11	1.004317743	0.5	0.461	1.80E-06	16 NBPF19
0.00861514	1.004139777	0.351	0.346	1	16 GLCC11
2.17E-28	1.002856745	0.258	0.088	6.98E-24	16 KCNAB2
2.79E-60	1.000991094	1	0.999	8.97E-56	16 FP671120.7
3.07E-30	0.997459896	0.275	0.097	9.85E-26	16 SP140L
2.06E-23	0.996814575	0.285	0.119	6.63E-19	16 HLA-A
1.39E-14	0.992001197	0.387	0.256	4.46E-10	16 ELOVL5
5.10E-08	0.991912905	0.54	0.547	0.001639329	16 CMIP
7.11E-30	0.989332786	1	0.998	2.28E-25	16 HFM1
3.19E-05	0.978605817	0.308	0.251	1	16 HIVEP3
0.00552449	0.97551	0.43	0.683	1	16 ARHGAP24
9.08E-11	0.967287593	0.543	0.54	2.92E-06	16 USP15
2.47E-08	0.965853465	0.517	0.534	0.000793801	16 UBAC2
2.72E-06	0.962104133	0.404	0.373	0.08742827	16 TANK
3.57E-12	0.960772031	0.272	0.157	1.15E-07	16 MIATNB
1.34E-18	0.956913	0.623	0.54	4.30E-14	16 CYRIB
2.17E-10	0.955472273	0.573	0.588	6.98E-06	16 PCNX1
1.77E-10	0.955357528	0.411	0.306	5.68E-06	16 SRGAP2
1.05E-05	0.955045537	0.427	0.413	0.335716679	16 GPCPD1
3.06E-10	0.952225456	0.295	0.19	9.81E-06	16 NUP210
0.00116694	0.949531007	0.391	0.407	1	16 EHMT1
2.14E-13	0.943999032	0.566	0.514	6.88E-09	16 ANKRD36C
2.34E-10	0.941332491	0.338	0.23	7.52E-06	16 MDFIC
1.03E-07	0.936021032	0.308	0.23	0.003318021	16 STRADA
7.50E-06	0.930637017	0.474	0.493	0.240911527	16 ATF7IP
6.64E-05	0.929341899	0.328	0.284	1	16 CDC14A
2.38E-07	0.927584777	0.328	0.246	0.007646877	16 ABR
2.69E-05	0.918090024	0.43	0.426	0.865438552	16 MAP3K1
4.86E-06	0.912963573	0.487	0.505	0.156166728	16 NBPF14
3.00E-05	0.91203688	0.338	0.304	0.963980392	16 XPO6
1.51E-10	0.901264906	0.556	0.545	4.84E-06	16 DENND4A
0.00014311	0.899999253	0.417	0.426	1	16 ATP2B1
8.90E-06	0.899371592	0.391	0.363	0.285948185	16 LINC01145
1.08E-11	0.899204188	0.56	0.523	3.46E-07	16 ITSN2
8.92E-05	0.896649787	0.255	0.202	1	16 KDM2B
1.91E-05	0.896162885	0.344	0.304	0.612866995	16 PHTF2
0.00020364	0.894213927	0.334	0.3	1	16 PRIM2
4.20E-10	0.891033205	0.487	0.423	1.35E-05	16 ASAP1
3.23E-09	0.888749363	0.414	0.34	0.000103641	16 CDK17
1.99E-13	0.886697844	0.368	0.227	6.40E-09	16 SLC4A7
7.93E-10	0.884356021	0.517	0.466	2.55E-05	16 ANKRD36B
4.18E-29	0.881649117	0.997	0.986	1.34E-24	16 FP671120.4
5.77E-10	0.878168749	0.517	0.502	1.85E-05	16 VPS13C
0.00032349	0.876635676	0.404	0.413	1	16 NBPF26
5.25E-11	0.870124031	0.576	0.566	1.69E-06	16 KAT6A

1.85E-05	0.866027882	0.291	0.238	0.595620584	16 TXLNKY
2.13E-08	0.858150724	0.46	0.405	0.000683881	16 MYO5A
7.70E-07	0.857751362	0.315	0.232	0.024740499	16 UST
0.0086792	0.855807212	0.318	0.321	1	16 MGAT4A
0.00035477	0.854494542	0.361	0.353	1	16 SUSD6
5.87E-12	0.854013231	0.474	0.375	1.88E-07	16 TGFB2
1.33E-08	0.853865579	0.457	0.376	0.000427303	16 ARHGAP26
7.14E-07	0.84916444	0.477	0.484	0.022938271	16 ACAP2
0.00031412	0.84770777	0.348	0.326	1	16 AGTPBP1
2.71E-08	0.84652864	0.258	0.164	0.000869297	16 RFTN1
6.12E-06	0.84342631	0.348	0.301	0.196710614	16 LINC00623
1.00E-06	0.842972038	0.268	0.191	0.032174873	16 RNASEH2B
0.00012515	0.8301056	0.258	0.2	1	16 PFKFB3
5.26E-07	0.828115076	0.447	0.41	0.016878465	16 MTRF1
0.00039014	0.826201873	0.364	0.343	1	16 ATP8A1
0.00090461	0.825130776	0.391	0.397	1	16 PPP3CC
2.75E-05	0.824926042	0.487	0.505	0.881667923	16 OSBPL8
3.90E-09	0.824653221	0.543	0.535	0.00012539	16 SETX
5.00E-05	0.823955148	0.394	0.38	1	16 SYNRG
1.24E-08	0.820622606	0.338	0.25	0.000397029	16 TPTE2P6
1.50E-16	0.815507939	0.411	0.242	4.81E-12	16 ZEB1
4.95E-08	0.815225036	0.305	0.22	0.0015896	16 DDHD1
1.70E-07	0.813886026	0.46	0.405	0.005471814	16 MAP3K5
5.05E-05	0.810599555	0.295	0.247	1	16 CRLF3
0.00025378	0.810484971	0.407	0.404	1	16 STX7
1.09E-05	0.810232268	0.371	0.317	0.34901138	16 SH3BGR1
6.92E-05	0.805554241	0.5	0.566	1	16 UVRAG
7.20E-10	0.802636555	0.384	0.285	2.31E-05	16 PLEKHA2
7.40E-10	0.80092005	0.629	0.664	2.38E-05	16 ZCCHC7
0.00047183	0.798520053	0.348	0.315	1	16 GPRIN3
7.81E-05	0.792868416	0.301	0.255	1	16 IRF1-AS1
1.23E-06	0.789031895	0.262	0.185	0.039544315	16 BAZ1A
1.04E-18	0.78578837	0.781	0.823	3.35E-14	16 TBC1D5
0.00011388	0.781766397	0.493	0.553	1	16 SND1
0.00016001	0.779188249	0.281	0.231	1	16 ABCC1
0.00325825	0.776283515	0.391	0.396	1	16 DIAPH2
7.32E-12	0.775428439	0.533	0.438	2.35E-07	16 PLCL2
3.68E-07	0.768103485	0.308	0.224	0.011813236	16 TLE4
5.08E-09	0.766397411	0.546	0.517	0.000163111	16 ELF1
6.80E-07	0.753398694	0.513	0.546	0.021831798	16 NPIPB13
0.00012163	0.752932171	0.288	0.241	1	16 IRF2
0.00010008	0.750589964	0.474	0.518	1	16 STAG2
0.0074102	0.741695012	0.318	0.31	1	16 ATF7IP2
4.52E-09	0.739800556	0.609	0.656	0.000145092	16 HERC1
2.64E-07	0.73718377	0.497	0.479	0.008493465	16 RAP1B
3.42E-10	0.736796111	0.613	0.66	1.10E-05	16 KMT2E
0.00304777	0.735548779	0.464	0.517	1	16 OGT
1.90E-16	0.735100108	0.781	0.821	6.10E-12	16 FP236383.3
8.90E-05	0.732410657	0.414	0.406	1	16 NBPFL2
0.00019305	0.728489915	0.404	0.397	1	16 ACTR3
1.26E-06	0.723484336	0.301	0.221	0.040607929	16 ST3GAL1

0.00263387	0.719023643	0.381	0.39	1	16 SMG1P4
1.01E-14	0.719004979	0.735	0.772	3.23E-10	16 NPIPB5
0.00012992	0.718021254	0.454	0.476	1	16 SPG11
0.00408217	0.714135535	0.477	0.541	1	16 ZHX2
0.00980115	0.713898503	0.447	0.517	1	16 COA1
0.00044521	0.712896685	0.46	0.497	1	16 GNB1
1.21E-05	0.70562742	0.553	0.601	0.389820197	16 SUCLG2
4.27E-06	0.70378223	0.672	0.749	0.137275242	16 ATXN1
0.00019545	0.703567878	0.291	0.248	1	16 MAP2K1
0.00118818	0.698002735	0.308	0.269	1	16 SRGAP2B
0.00051244	0.697075537	0.536	0.618	1	16 FARS2
4.81E-05	0.695268855	0.49	0.523	1	16 ROCK1
0.00389916	0.694145562	0.454	0.505	1	16 FBXO11
0.00448664	0.692216992	0.394	0.414	1	16 LINC01138
9.78E-05	0.690509295	0.497	0.533	1	16 USP3
0.00059509	0.687484168	0.255	0.207	1	16 ATP2B4
0.00089797	0.687291341	0.437	0.473	1	16 CAPZB
0.00024056	0.686572021	0.646	0.735	1	16 SMYD3
7.88E-05	0.683000772	0.288	0.221	1	16 SLCO3A1
2.64E-11	0.680100617	0.722	0.759	8.47E-07	16 VPS13B
4.12E-09	0.677121777	0.387	0.286	0.00013223	16 SRGAP2C
0.00082224	0.676932287	0.583	0.691	1	16 FAM172A
0.00046843	0.675387105	0.255	0.209	1	16 AC004922.1
0.00276069	0.671277669	0.424	0.46	1	16 FNBP4
0.00400183	0.665749162	0.325	0.305	1	16 ANKH
4.77E-05	0.664774671	0.517	0.581	1	16 EPS15
1.57E-06	0.658401573	0.576	0.647	0.050581048	16 PRRC2C
7.27E-05	0.656709418	0.354	0.319	1	16 AC001226.2
1.05E-05	0.656312743	0.454	0.418	0.338220256	16 PLCG2
0.0064069	0.655472193	0.288	0.252	1	16 ITPKB
0.0007606	0.653028453	0.351	0.331	1	16 NFATC3
0.00026456	0.651451452	0.586	0.677	1	16 AP005263.1
0.00308028	0.647513289	0.43	0.458	1	16 SENP7
0.00026677	0.647100854	0.434	0.429	1	16 MYH9
6.82E-15	0.646962052	0.735	0.771	2.19E-10	16 NPIPB4
0.00047952	0.634378291	0.427	0.443	1	16 FUS
0.00188813	0.63103448	0.513	0.594	1	16 RAPGEF6
0.00056375	0.625029353	0.315	0.275	1	16 MSN
1.45E-10	0.622164215	0.695	0.789	4.66E-06	16 NPIPB3
0.00016712	0.618150373	0.573	0.664	1	16 RNF213
0.00330907	0.616356453	0.497	0.578	1	16 RICTOR
8.24E-10	0.602455054	0.805	0.842	2.65E-05	16 RABGAP1L
0.00080415	0.602265262	0.272	0.438	1	16 OSBPL10
0.00263401	0.600795573	0.295	0.268	1	16 IKBKB
0.00158961	0.596679194	0.467	0.525	1	16 RSF1
0.00019741	0.595090219	0.351	0.573	1	16 SAT1
0.00664702	0.584798658	0.404	0.435	1	16 ABI1
1.50E-07	0.584435963	0.636	0.704	0.004822451	16 PAN3
6.17E-06	0.576840284	0.553	0.579	0.198161214	16 CCDC91
1.36E-13	0.574517754	0.911	0.935	4.37E-09	16 MT-RNR1
0.00134827	0.568002506	0.474	0.495	1	16 SMARCA2

6.34E-19	0.564117499	0.315	0.69	2.04E-14	16 PLXDC2
0.00294949	0.553730275	0.517	0.609	1	16 FRYL
0.00084604	0.54952224	0.533	0.602	1	16 ZNF644
0.00505857	0.547439336	0.235	0.366	1	16 HSP90AA1
0.00999097	0.545922427	0.513	0.618	1	16 OGA
0.00894073	0.540863414	0.52	0.602	1	16 TUT4
0.00905931	0.53997062	0.497	0.534	1	16 HIVEP2
0.00261603	0.538938654	0.566	0.67	1	16 ERBIN
0.00261705	0.532579482	0.536	0.63	1	16 ARID4B
0.00062877	0.527592635	0.613	0.698	1	16 TRAPPC9
3.56E-05	0.526757327	0.268	0.195	1	16 TCF4
0.00636985	0.52577791	0.526	0.63	1	16 COP1
0.00513082	0.519261275	0.543	0.65	1	16 SMG1
0.00557519	0.517210283	0.513	0.596	1	16 BBX
3.23E-08	0.511038136	0.798	0.822	0.001036051	16 ARID1B
3.93E-05	0.510570231	0.632	0.717	1	16 CDKAL1
0.00115529	0.498560063	0.54	0.624	1	16 WAC
2.79E-06	0.497179365	0.434	0.363	0.089579615	16 STIM2
8.36E-06	0.474314706	0.639	0.729	0.26860566	16 NKTR
0.00048472	0.448847077	0.517	0.472	1	16 UTY
0.00405966	0.436746396	0.626	0.77	1	16 ASH1L
0.00030034	0.436323318	0.646	0.758	1	16 BIRC6
3.21E-15	0.428932987	0.993	0.986	1.03E-10	16 MT-RNR2
0.00016811	0.425128446	0.662	0.734	1	16 STAG1
0.00488134	0.421292771	0.576	0.696	1	16 BPTF
0.00587907	0.418070276	0.199	0.315	1	16 DOCK5
0.00523178	0.401718657	0.245	0.381	1	16 AC004593.2
0.00010648	0.401528579	0.659	0.784	1	16 KMT2C
0.0090228	0.39998969	0.321	0.489	1	16 TOP1
6.37E-13	0.387632925	0.202	0.462	2.05E-08	16 DOCK4
0.00352602	0.382148574	0.609	0.727	1	16 ATRX
0.00501223	0.367409061	0.626	0.718	1	16 NCOA2
0.00857254	0.366415765	0.278	0.409	1	16 FRMD4A
1.28E-08	0.337633925	0.669	0.641	0.000410876	16 SLCO5A1
0.00642117	0.313737402	0.179	0.285	1	16 HBP1
0.00386958	0.310422403	0.268	0.432	1	16 LMBRD1
0.00572587	0.306275654	0.192	0.309	1	16 DRG1
0.00421002	0.30484417	0.238	0.375	1	16 FAM168A
0.00400048	0.301950055	0.189	0.307	1	16 RFC1
0.00372958	0.300724425	0.159	0.268	1	16 HBS1L
1.96E-07	0.29939163	0.354	0.631	0.006280957	16 ANKRD28
0.00160646	0.29834987	0.265	0.433	1	16 SMURF2
0.00735972	0.294419733	0.202	0.324	1	16 HNRNPH3
0.00274339	0.291966742	0.185	0.307	1	16 TANGO6
0.00671889	0.290000703	0.156	0.256	1	16 COG3
0.00340475	0.289903191	0.268	0.433	1	16 TVP23C-CDRT4
0.0013593	0.288236633	0.222	0.374	1	16 UIMC1
0.00762497	0.277204804	0.281	0.433	1	16 DTNB
0.00546439	0.271677981	0.252	0.399	1	16 ZNF655
0.0098081	0.270871984	0.242	0.367	1	16 LINC01184
0.00408984	0.269733324	0.222	0.357	1	16 CUL4A

0.00080629	0.267363688	0.209	0.357	1	16 CSDE1
0.00249109	0.26698608	0.272	0.445	1	16 EWSR1
0.00088708	0.266550924	0.185	0.313	1	16 RRAS2
0.00314417	0.263689753	0.252	0.408	1	16 NR2C2
0.00976903	0.262282846	0.219	0.344	1	16 NUDT3
0.00085434	0.25626057	0.179	0.305	1	16 SEC22A
0.00506764	0.255923176	0.212	0.341	1	16 PTGES3
0.00064465	0.255541332	0.268	0.448	1	16 CDC73
0.00242394	0.255339008	0.195	0.32	1	16 USP10
0.00798863	0.254930703	0.199	0.313	1	16 ELP2
0.00159304	0.254842772	0.212	0.349	1	16 PIK3CA
0.00393708	0.254686857	0.222	0.351	1	16 PSEN1
0.00136234	0.254524844	0.262	0.424	1	16 FOXK2
0.00634122	0.254479065	0.185	0.3	1	16 VPS36
0.00074605	0.253672638	0.222	0.374	1	16 CACUL1
0.00494374	0.250183196	0.175	0.285	1	16 MLLT6
0	4.273457485	0.916	0.134	0	17 CACNA1C
0	3.906500331	0.941	0.079	0	17 EBF1
0	3.888040836	0.722	0.023	0	17 NTRK3
3.41E-112	3.793131942	0.671	0.181	1.09E-107	17 ROBO1
1.06E-22	3.661029453	0.3	0.119	3.40E-18	17 CNTN5
0	3.641814228	0.907	0.121	0	17 SLIT3
0	3.461741536	0.751	0.04	0	17 ITGA8
0	3.355064233	0.713	0.055	0	17 COL25A1
9.78E-170	3.350723435	0.907	0.282	3.14E-165	17 PIP5K1B
3.16E-104	3.330637824	0.502	0.105	1.02E-99	17 HPSE2
2.94E-18	3.232887661	0.363	0.185	9.46E-14	17 ROBO2
2.34E-72	3.145229007	0.418	0.098	7.51E-68	17 GRID2
7.91E-171	3.074074613	0.903	0.275	2.54E-166	17 CALD1
4.19E-157	3.060087014	0.494	0.067	1.34E-152	17 SPARCL1
1.24E-167	3.012300101	0.92	0.271	4.00E-163	17 AC098650.1
0	2.952257483	0.73	0.01	0	17 CARMN
9.73E-255	2.93414135	0.532	0.049	3.13E-250	17 ANO3
5.53E-57	2.878511339	0.321	0.069	1.78E-52	17 KCNQ5
9.51E-209	2.844493162	0.835	0.163	3.05E-204	17 DLC1
1.16E-63	2.843246057	0.498	0.157	3.73E-59	17 KCNAB1
2.15E-125	2.837715185	0.966	0.546	6.91E-121	17 PDE3A
1.13E-135	2.83174988	0.987	0.623	3.64E-131	17 PRKG1
2.93E-141	2.794459706	0.781	0.213	9.42E-137	17 KALRN
3.18E-178	2.793915595	0.443	0.047	1.02E-173	17 PIEZO2
1.26E-26	2.746003602	0.637	0.431	4.05E-22	17 NRXN3
6.51E-187	2.723208396	0.81	0.159	2.09E-182	17 TMTC1
1.23E-248	2.714376164	0.797	0.123	3.96E-244	17 MEIS1
1.33E-237	2.709810209	0.722	0.102	4.27E-233	17 DGKG
1.90E-262	2.707380265	0.456	0.034	6.10E-258	17 MYH11
1.38E-140	2.695451163	0.582	0.102	4.44E-136	17 LHFPL6
4.28E-156	2.659444045	0.494	0.067	1.37E-151	17 SLC7A2
0	2.656759325	0.511	0.026	0	17 PRR16
2.49E-157	2.624465379	0.367	0.036	8.00E-153	17 PDZRN4
4.35E-71	2.522758286	0.827	0.489	1.40E-66	17 ZFHX3
2.95E-250	2.463971301	0.654	0.072	9.48E-246	17 ATP10A

1.10E-46	2.400550559	0.595	0.29	3.53E-42	17 DMD
1.05E-118	2.380307682	0.755	0.216	3.37E-114	17 SLCO3A1
1.37E-175	2.367868173	0.696	0.119	4.40E-171	17 RBMS3
9.59E-125	2.282214867	0.646	0.148	3.08E-120	17 TMEM131L
0	2.268603958	0.654	0.025	0	17 PDGFRB
1.42E-119	2.249295074	0.759	0.219	4.55E-115	17 MEF2C
3.14E-44	2.237749246	0.392	0.123	1.01E-39	17 ADGRL3
0	2.146628516	0.62	0.036	0	17 CPED1
0	2.143496202	0.43	0.018	0	17 AC015574.1
3.39E-52	2.13814187	0.27	0.053	1.09E-47	17 MDGA2
5.71E-126	2.130114423	0.565	0.106	1.83E-121	17 A2M
3.01E-40	2.130021172	0.473	0.198	9.67E-36	17 AC114316.1
8.92E-102	2.121880353	0.304	0.037	2.86E-97	17 CRISPLD2
6.44E-200	2.093252829	0.658	0.094	2.07E-195	17 MSRB3
1.84E-142	2.062153875	0.527	0.084	5.91E-138	17 MYOM1
3.04E-231	2.030235584	0.81	0.119	9.75E-227	17 MEIS2
1.05E-110	2.028082312	0.73	0.199	3.38E-106	17 UNC5C
1.17E-89	1.991780718	0.667	0.204	3.74E-85	17 ROR1
2.20E-166	1.983705795	0.658	0.111	7.06E-162	17 RAPGEF5
3.45E-24	1.980802373	0.321	0.122	1.11E-19	17 MT2A
6.81E-93	1.970957642	0.532	0.122	2.19E-88	17 LTBP1
1.19E-95	1.957642585	0.422	0.075	3.83E-91	17 ADAMTS6
0	1.951823908	0.519	0.018	0	17 EDNRA
9.41E-156	1.946463129	0.376	0.037	3.02E-151	17 SYNPO2
4.13E-115	1.934449282	0.414	0.059	1.33E-110	17 ERG
2.49E-69	1.920548588	0.797	0.378	7.99E-65	17 FRY
7.92E-115	1.913509362	0.722	0.18	2.54E-110	17 FBXL7
4.91E-71	1.905265889	0.903	0.631	1.58E-66	17 TBC1D1
2.59E-114	1.902359156	0.793	0.239	8.32E-110	17 ZEB1
3.06E-19	1.895724287	0.595	0.428	9.82E-15	17 GPC6
5.01E-39	1.889435963	0.679	0.381	1.61E-34	17 PCDH9
1.96E-114	1.889235352	0.498	0.09	6.29E-110	17 EDIL3
8.99E-156	1.886493335	0.414	0.046	2.89E-151	17 COL12A1
1.82E-173	1.886307869	0.363	0.032	5.85E-169	17 DAPK2
9.03E-181	1.883257357	0.511	0.062	2.90E-176	17 DAAM2
1.49E-162	1.853793193	0.502	0.066	4.77E-158	17 MICAL2
0	1.849526031	0.426	0.024	0	17 COL21A1
9.13E-82	1.843292857	0.865	0.377	2.93E-77	17 SOX5
9.68E-138	1.834729812	0.338	0.034	3.11E-133	17 SAMD3
4.59E-65	1.824570716	0.354	0.073	1.47E-60	17 ADGRB3
1.19E-49	1.803828176	0.338	0.082	3.81E-45	17 KCNMA1
7.92E-34	1.801643307	0.359	0.124	2.54E-29	17 DGKB
4.10E-162	1.799410571	0.304	0.023	1.32E-157	17 ELN
2.48E-53	1.787988143	0.781	0.435	7.96E-49	17 EPS8
0.00012555	1.786374876	0.405	0.338	1	17 CSMD1
3.76E-64	1.785658711	0.595	0.2	1.21E-59	17 FIGN
2.65E-38	1.782034578	0.586	0.275	8.50E-34	17 RCAN2
3.00E-70	1.770164156	0.916	0.603	9.64E-66	17 UTRN
9.63E-64	1.766989694	0.629	0.236	3.09E-59	17 ATP11C
5.75E-283	1.753260474	0.477	0.033	1.85E-278	17 NIBAN1
1.05E-53	1.752420577	0.667	0.322	3.37E-49	17 ARHGAP17

1.21E-66	1.747181361	0.532	0.155	3.90E-62	17 HDAC9
1.39E-32	1.745939671	0.329	0.108	4.45E-28	17 GRIK2
4.23E-136	1.738676382	0.435	0.057	1.36E-131	17 ZFPM2-AS1
2.05E-27	1.737879166	0.629	0.397	6.57E-23	17 GNAS
1.05E-127	1.727250012	0.494	0.077	3.37E-123	17 ENG
1.68E-176	1.719801947	0.502	0.061	5.38E-172	17 FILIP1
5.81E-74	1.71688261	0.916	0.602	1.87E-69	17 AC012409.2
7.33E-84	1.713426047	0.713	0.238	2.35E-79	17 ARHGAP42
4.03E-47	1.707763923	0.489	0.167	1.29E-42	17 RGS6
0	1.68717658	0.523	0.034	0	17 IRAG1
0	1.676144333	0.291	0.01	0	17 MYOCD
7.62E-94	1.671172978	0.574	0.139	2.45E-89	17 EPB41L2
1.39E-24	1.667133204	0.46	0.236	4.45E-20	17 SORBS1
5.23E-35	1.66462893	0.738	0.536	1.68E-30	17 ARHGEF7
4.11E-34	1.66115288	0.384	0.136	1.32E-29	17 IL1RAPL1
1.01E-47	1.651279906	0.679	0.344	3.23E-43	17 ITGA1
1.37E-33	1.650156101	0.498	0.221	4.41E-29	17 NR4A1
0	1.646976576	0.422	0.019	0	17 ADCY3
0	1.632022373	0.278	0.006	0	17 ADRA1A
4.17E-43	1.631426148	0.489	0.189	1.34E-38	17 ENAH
1.99E-46	1.630400501	0.722	0.396	6.38E-42	17 PITPNC1
7.74E-117	1.626620914	0.557	0.104	2.49E-112	17 SH3RF3
2.26E-55	1.624967354	0.759	0.392	7.24E-51	17 INPP4B
0	1.62105132	0.456	0.014	0	17 WFDC1
3.68E-55	1.61627981	0.586	0.228	1.18E-50	17 ZBTB46
2.15E-52	1.5939198	0.823	0.53	6.91E-48	17 MAML3
8.49E-71	1.589270627	0.937	0.55	2.73E-66	17 ZBTB16
8.03E-40	1.588372229	0.574	0.254	2.58E-35	17 DOCK8
1.61E-129	1.583280096	0.274	0.024	5.18E-125	17 HS3ST3A1
2.12E-54	1.579374753	0.954	0.787	6.80E-50	17 PLCL1
3.59E-34	1.564160314	0.274	0.076	1.15E-29	17 SLC35F1
7.56E-14	1.563509806	0.359	0.2	2.43E-09	17 CTNNA3
3.73E-55	1.56267766	0.308	0.064	1.20E-50	17 COL23A1
0	1.556186591	0.308	0.01	0	17 LDB3
7.93E-76	1.553913757	0.498	0.126	2.55E-71	17 RNF144A
9.51E-285	1.551982666	0.502	0.037	3.05E-280	17 LYVE1
3.22E-49	1.526158081	0.266	0.052	1.03E-44	17 ADAMTS1
4.59E-92	1.524722726	0.473	0.093	1.47E-87	17 MAP2
9.41E-55	1.521152301	0.511	0.163	3.02E-50	17 ZEB2
1.12E-45	1.517004582	0.831	0.633	3.60E-41	17 CLMN
0	1.516628353	0.371	0.007	0	17 CCN4
1.55E-25	1.502185727	0.523	0.302	4.98E-21	17 PHTF2
4.87E-66	1.487376776	0.494	0.136	1.56E-61	17 FLNA
8.92E-52	1.484621038	0.802	0.479	2.87E-47	17 MYO1D
1.83E-99	1.481729004	0.481	0.09	5.88E-95	17 GRK5
0	1.477391651	0.274	0.003	0	17 AGTR1
2.07E-08	1.469383653	0.371	0.266	0.000664862	17 LAMA2
2.28E-56	1.459302824	0.776	0.403	7.31E-52	17 FRMD4A
7.80E-35	1.45817998	0.35	0.113	2.51E-30	17 AFF3
4.29E-169	1.451331971	0.473	0.053	1.38E-164	17 RUNX1T1
6.42E-68	1.439304287	0.591	0.191	2.06E-63	17 ARHGEF17

7.68E-41	1.437232279	0.793	0.589	2.47E-36	17 PPP1R12A
5.68E-46	1.43554167	0.502	0.188	1.82E-41	17 SPECC1
4.47E-29	1.427366338	0.527	0.282	1.44E-24	17 SORT1
1.42E-127	1.427011106	0.519	0.083	4.55E-123	17 RAPGEF4
3.01E-27	1.420844379	0.308	0.106	9.68E-23	17 CNTN1
1.48E-82	1.41837428	0.43	0.088	4.76E-78	17 ANTXR1
1.95E-16	1.41732225	0.287	0.122	6.28E-12	17 HS6ST3
1.32E-65	1.415067477	0.966	0.83	4.23E-61	17 PTPRG
1.14E-36	1.413965562	0.519	0.239	3.65E-32	17 SLC38A2
7.44E-21	1.41327687	0.451	0.238	2.39E-16	17 C1QTNF7-AS1
3.71E-25	1.413106081	0.624	0.401	1.19E-20	17 ELL2
9.62E-41	1.409720576	0.705	0.369	3.09E-36	17 CACNB2
1.29E-53	1.408433228	0.544	0.19	4.14E-49	17 NR2F1-AS1
7.13E-83	1.40569575	0.376	0.067	2.29E-78	17 NOTCH3
3.07E-98	1.404443309	0.481	0.094	9.86E-94	17 MAP3K20
1.38E-48	1.403473019	0.608	0.246	4.42E-44	17 SYN3
1.18E-48	1.403323478	0.414	0.123	3.79E-44	17 FOXN2
0	1.401873724	0.409	0.011	0	17 ITGA11
1.31E-96	1.400326616	0.426	0.072	4.20E-92	17 NFASC
2.54E-194	1.393695567	0.266	0.015	8.16E-190	17 KCNE4
8.79E-52	1.393232718	0.38	0.095	2.82E-47	17 KCNT2
1.49E-23	1.387487429	0.283	0.099	4.78E-19	17 AC109466.1
3.55E-14	1.386570018	0.278	0.13	1.14E-09	17 DCC
3.37E-56	1.381687633	0.734	0.319	1.08E-51	17 NRP1
3.57E-48	1.38076544	0.7	0.325	1.15E-43	17 LDLRAD4
3.56E-52	1.380546425	0.477	0.15	1.14E-47	17 PARM1
2.15E-45	1.37215461	0.785	0.469	6.90E-41	17 SSBP2
1.30E-53	1.36822062	0.523	0.182	4.17E-49	17 SOX13
2.51E-46	1.363350703	0.827	0.674	8.05E-42	17 NBEAL1
8.83E-37	1.363167745	0.819	0.514	2.84E-32	17 TACC1
4.75E-105	1.354595402	0.418	0.066	1.52E-100	17 NUAK1
1.63E-191	1.347649416	0.3	0.019	5.23E-187	17 MCF2
1.37E-59	1.344197545	0.65	0.255	4.41E-55	17 EPAS1
8.70E-35	1.33922632	0.806	0.659	2.79E-30	17 HIPK2
4.35E-61	1.337529383	0.494	0.135	1.40E-56	17 AKAP12
1.69E-32	1.335193131	0.667	0.403	5.43E-28	17 MAP3K5
3.62E-42	1.329453719	0.772	0.474	1.16E-37	17 FCHSD2
0	1.314977248	0.295	0.008	0	17 MCAM
6.01E-15	1.312862402	0.527	0.365	1.93E-10	17 PPARG
5.71E-08	1.307675532	0.287	0.169	0.001833524	17 FAM155A
2.15E-43	1.296238776	0.713	0.366	6.90E-39	17 DGKH
0	1.293181008	0.295	0.002	0	17 HEYL
8.67E-55	1.284306108	0.464	0.136	2.78E-50	17 NCALD
2.64E-22	1.273510415	0.785	0.675	8.49E-18	17 SYNE1
4.72E-50	1.27033667	0.54	0.184	1.52E-45	17 ZFPM2
2.22E-15	1.268592703	0.654	0.534	7.13E-11	17 PPP1R12B
1.26E-11	1.264025199	0.354	0.21	4.04E-07	17 RGS5
5.25E-41	1.258466696	0.544	0.248	1.68E-36	17 UBA2
5.98E-39	1.247276813	0.561	0.231	1.92E-34	17 CLIC4
3.81E-19	1.243595345	0.629	0.433	1.22E-14	17 CPM
9.27E-33	1.241298203	0.747	0.548	2.98E-28	17 ROCK2

4.63E-44	1.240696618	0.932	0.794	1.49E-39	17 RBPMS
2.46E-15	1.240527154	0.747	0.612	7.89E-11	17 TRPM3
2.27E-55	1.239139798	0.376	0.092	7.28E-51	17 TTLL7
3.76E-88	1.237771968	0.278	0.035	1.21E-83	17 ACER2
5.21E-28	1.229185035	0.346	0.128	1.67E-23	17 FN1
3.73E-28	1.22660375	0.456	0.212	1.20E-23	17 ABHD2
4.06E-43	1.224344676	0.65	0.327	1.30E-38	17 NR2F2-AS1
1.67E-42	1.213034687	0.447	0.15	5.37E-38	17 ETS1
4.26E-31	1.211367732	0.274	0.078	1.37E-26	17 NR4A3
7.98E-24	1.208802038	0.667	0.451	2.56E-19	17 PALLD
1.23E-09	1.206858875	0.384	0.262	3.95E-05	17 AC022414.1
1.90E-19	1.200542207	0.388	0.179	6.11E-15	17 FOS
2.47E-25	1.193046291	0.755	0.652	7.92E-21	17 PTPRK
1.22E-23	1.192597367	0.266	0.088	3.93E-19	17 CDH13
8.97E-24	1.189434317	0.696	0.509	2.88E-19	17 PPP1CB
1.19E-291	1.189139601	0.316	0.013	3.83E-287	17 AC008397.2
5.75E-38	1.186093823	0.696	0.393	1.85E-33	17 DIAPH2
2.43E-103	1.185407342	0.477	0.089	7.80E-99	17 TINAGL1
1.66E-35	1.180609364	0.532	0.242	5.33E-31	17 CEP85L
2.66E-25	1.171114322	0.515	0.263	8.54E-21	17 RARB
3.41E-16	1.171056491	0.675	0.513	1.09E-11	17 SDK1
2.36E-65	1.162397255	0.405	0.093	7.58E-61	17 ISYNA1
1.54E-22	1.156997591	0.502	0.262	4.93E-18	17 ARHGAP10
4.85E-43	1.155426604	0.283	0.066	1.56E-38	17 LBH
3.26E-201	1.153174866	0.291	0.017	1.05E-196	17 LMOD1
1.90E-41	1.152322717	0.422	0.134	6.10E-37	17 SPRY4-AS1
1.51E-11	1.151677662	0.498	0.377	4.85E-07	17 AKAP6
8.26E-22	1.148185749	0.409	0.197	2.65E-17	17 LINC00882
3.80E-18	1.1477965	0.257	0.099	1.22E-13	17 OPCML
1.18E-08	1.146555619	0.401	0.279	0.000379838	17 NUDT4
1.28E-37	1.14621363	0.751	0.52	4.10E-33	17 ROCK1
6.92E-50	1.14236296	0.422	0.122	2.22E-45	17 ACTN1
3.86E-34	1.139640203	0.81	0.697	1.24E-29	17 CDC42BPA
9.77E-59	1.138821315	0.966	0.875	3.14E-54	17 LPP
4.20E-36	1.136586477	0.641	0.335	1.35E-31	17 LIMA1
1.33E-36	1.133638326	0.409	0.139	4.28E-32	17 CAMK1D
4.16E-115	1.132316153	0.266	0.025	1.34E-110	17 PTP4A3
0	1.129888076	0.308	0.003	0	17 CSPG4
3.49E-47	1.127559459	0.574	0.212	1.12E-42	17 TCF7L1
2.87E-257	1.124125899	0.3	0.014	9.21E-253	17 NRGN
4.79E-31	1.118955672	0.662	0.379	1.54E-26	17 CACNA2D1
3.41E-117	1.116156998	0.295	0.03	1.09E-112	17 ATP2A3
1.26E-17	1.112427615	0.705	0.574	4.04E-13	17 CRIM1
6.81E-15	1.111759425	0.426	0.254	2.19E-10	17 PGM5
1.44E-23	1.107438532	0.692	0.526	4.63E-19	17 PTEN
2.33E-26	1.101001647	0.498	0.255	7.49E-22	17 ELOVL5
1.65E-05	1.099191566	0.439	0.384	0.530330879	17 JAK2
1.29E-26	1.098179603	0.641	0.404	4.14E-22	17 CAMK2D
3.99E-18	1.09610783	0.696	0.596	1.28E-13	17 NBEA
6.51E-127	1.091089007	0.274	0.024	2.09E-122	17 WNK2
2.89E-40	1.090184807	0.43	0.137	9.27E-36	17 NTRK2

4.42E-170	1.082429411	0.354	0.031	1.42E-165	17 ITGA7
1.28E-05	1.082167846	0.333	0.26	0.412088217	17 CNTN3
3.74E-41	1.08148664	0.464	0.159	1.20E-36	17 KIRREL1
1.64E-29	1.068844865	0.38	0.141	5.26E-25	17 LINC01619
2.49E-24	1.066492932	0.388	0.167	7.99E-20	17 JAG1
4.02E-196	1.065756414	0.291	0.017	1.29E-191	17 TRPC4
3.59E-34	1.061916972	0.561	0.26	1.15E-29	17 TPM1
9.06E-99	1.061663959	0.253	0.026	2.91E-94	17 STAT4
3.65E-30	1.059570113	0.747	0.51	1.17E-25	17 AUTS2
7.62E-26	1.059381932	0.781	0.485	2.45E-21	17 FKBP5
5.26E-17	1.052672979	0.371	0.191	1.69E-12	17 MEF2C-AS1
1.39E-21	1.050377995	0.38	0.168	4.46E-17	17 TPM4
5.32E-05	1.047330353	0.574	0.593	1	17 PDE7B
5.06E-97	1.044028816	0.401	0.065	1.62E-92	17 STARD9
1.19E-23	1.040662965	0.561	0.305	3.83E-19	17 NR3C1
3.61E-18	1.040583935	0.578	0.405	1.16E-13	17 SSBP3
0	1.039327195	0.283	0.007	0	17 MFGE8
1.18E-125	1.038140602	0.35	0.039	3.78E-121	17 EHBP1L1
5.88E-40	1.033006411	0.447	0.156	1.89E-35	17 TBX2
1.13E-10	1.029980639	0.295	0.156	3.63E-06	17 EGR1
1.07E-16	1.029621689	0.451	0.27	3.43E-12	17 RAPH1
1.05E-30	1.029398895	0.616	0.341	3.39E-26	17 MAP4K4
3.37E-17	1.028471883	0.578	0.375	1.08E-12	17 ARHGAP26
1.13E-84	1.028379748	0.291	0.04	3.63E-80	17 TPM2
1.42E-17	1.019683659	0.363	0.178	4.56E-13	17 ADARB1
1.42E-51	1.018098221	0.274	0.053	4.56E-47	17 AL133346.1
3.27E-19	1.017634961	0.612	0.451	1.05E-14	17 CD46
6.25E-24	1.017089132	0.641	0.44	2.01E-19	17 KIF13A
3.42E-26	1.015766049	0.835	0.743	1.10E-21	17 MBNL1
2.14E-16	1.015104833	0.287	0.122	6.87E-12	17 SLC22A3
1.93E-24	1.01505942	0.447	0.211	6.21E-20	17 TLE1
4.05E-33	1.011900145	0.346	0.115	1.30E-28	17 NIPAL2
8.48E-15	1.002965718	0.498	0.322	2.72E-10	17 AC104123.1
2.05E-100	1.002349742	0.312	0.039	6.60E-96	17 IRAG1-AS1
3.82E-25	1.001565877	0.397	0.163	1.23E-20	17 PLCE1
4.75E-20	0.998757905	0.696	0.521	1.53E-15	17 RASAL2
8.55E-30	0.994866452	0.827	0.644	2.74E-25	17 RAPGEF2
4.51E-22	0.990396917	0.751	0.606	1.45E-17	17 TBL1X
7.05E-46	0.987085033	0.316	0.076	2.26E-41	17 LDLRAD3
2.13E-64	0.984689452	0.27	0.043	6.85E-60	17 CDH11
2.58E-20	0.979244922	0.338	0.147	8.29E-16	17 ADCY5
1.01E-47	0.977978055	0.342	0.084	3.24E-43	17 IGFBP4
1.03E-219	0.96950097	0.291	0.015	3.30E-215	17 ADIRF
3.28E-41	0.96466846	0.321	0.086	1.05E-36	17 WTIP
2.14E-19	0.964231595	0.536	0.289	6.89E-15	17 SGIP1
0.00352684	0.959724714	0.7	0.712	1	17 PRKCA
1.14E-26	0.955779833	0.325	0.115	3.65E-22	17 TRPC6
1.01E-87	0.947977156	0.262	0.031	3.26E-83	17 AXL
1.63E-47	0.93612543	0.287	0.06	5.24E-43	17 DYNC111
7.53E-30	0.934388274	0.414	0.154	2.42E-25	17 DOCK10
1.16E-29	0.927593043	0.464	0.194	3.72E-25	17 TCF4

1.19E-21	0.926007867	0.523	0.299	3.82E-17	17 PTPN9
2.37E-17	0.918248835	0.755	0.604	7.62E-13	17 IGFBP7
8.86E-71	0.915044212	0.321	0.055	2.84E-66	17 ZNF423
2.49E-14	0.914352564	0.329	0.167	8.00E-10	17 STAC
1.17E-34	0.912210038	0.367	0.119	3.77E-30	17 TIMP3
5.47E-68	0.910636715	0.27	0.042	1.76E-63	17 AC100830.1
6.12E-16	0.909869117	0.388	0.205	1.97E-11	17 ATP2B4
7.49E-14	0.906975992	0.384	0.219	2.40E-09	17 PLD1
1.36E-27	0.902607201	0.312	0.106	4.36E-23	17 COL5A2
5.81E-21	0.896427602	0.73	0.5	1.87E-16	17 HIP1
1.92E-14	0.893858202	0.62	0.473	6.17E-10	17 PDS5B
1.77E-20	0.893047869	0.464	0.24	5.70E-16	17 EVA1C
3.63E-17	0.8827503	0.405	0.21	1.17E-12	17 OSMR
2.30E-15	0.879704456	0.494	0.327	7.40E-11	17 PTPN12
0.00022258	0.873865836	0.473	0.408	1	17 PDZRN3
5.57E-09	0.873777236	0.519	0.4	0.000178734	17 CMSS1
6.75E-05	0.869431702	0.414	0.327	1	17 COL4A1
4.41E-32	0.868447106	0.878	0.7	1.42E-27	17 APBB2
3.81E-11	0.865973032	0.367	0.228	1.22E-06	17 CAP2
6.49E-22	0.861031248	0.65	0.377	2.09E-17	17 PTPRD
7.23E-05	0.859102659	0.616	0.663	1	17 SAMD12
2.65E-307	0.859072914	0.283	0.01	8.52E-303	17 ANO1
9.66E-63	0.847502202	0.257	0.04	3.10E-58	17 SNAP25-AS1
3.17E-14	0.847286213	0.616	0.456	1.02E-09	17 DOCK4
2.82E-183	0.846501242	0.283	0.017	9.05E-179	17 PLEKHG2
6.18E-08	0.843475278	0.274	0.162	0.001984187	17 MCTP1
1.74E-19	0.841888087	0.325	0.139	5.58E-15	17 GUCY1A1
0.00160022	0.839559477	0.443	0.414	1	17 NEO1
9.20E-19	0.836831608	0.354	0.163	2.95E-14	17 RFTN1
7.63E-12	0.836100054	0.523	0.372	2.45E-07	17 DLEU2
3.08E-07	0.836025509	0.414	0.315	0.009884014	17 POLR2B
8.75E-16	0.832318675	0.532	0.363	2.81E-11	17 NOTCH2
5.93E-15	0.830189877	0.654	0.527	1.90E-10	17 BMPR2
4.17E-39	0.825135625	0.308	0.082	1.34E-34	17 AGAP11
3.29E-13	0.822281144	0.392	0.223	1.06E-08	17 TLE4
2.68E-59	0.82198146	0.266	0.045	8.60E-55	17 FHL2
1.45E-88	0.821286596	0.253	0.028	4.67E-84	17 PLXND1
2.91E-13	0.820843212	0.35	0.185	9.35E-09	17 AP002518.2
9.79E-26	0.819047564	0.43	0.19	3.14E-21	17 DENND3
2.29E-12	0.812633758	0.468	0.328	7.35E-08	17 HSD17B4
5.46E-62	0.809819484	0.316	0.061	1.75E-57	17 RBPMS2
1.05E-12	0.807118089	0.287	0.139	3.36E-08	17 NXN
7.57E-48	0.804375299	0.278	0.059	2.43E-43	17 FSTL1
1.17E-36	0.801756353	0.295	0.079	3.75E-32	17 KANK2
5.48E-17	0.800891562	0.3	0.129	1.76E-12	17 BCL6
1.54E-15	0.800519984	0.641	0.431	4.94E-11	17 COL4A2
3.49E-25	0.799197567	0.789	0.583	1.12E-20	17 TNS1
4.76E-53	0.798101151	0.278	0.054	1.53E-48	17 CSRP2
4.92E-11	0.795800016	0.7	0.618	1.58E-06	17 RBMS1
2.36E-14	0.79578824	0.325	0.159	7.57E-10	17 MGST1
1.72E-31	0.794988265	0.291	0.085	5.51E-27	17 FMNL3

2.61E-12	0.794020638	0.494	0.333	8.38E-08	17 PLS3
2.82E-30	0.793150983	0.447	0.167	9.05E-26	17 EYA4
2.55E-66	0.79312117	0.418	0.091	8.19E-62	17 EMCN
5.01E-11	0.791130784	0.595	0.481	1.61E-06	17 PKD2
2.74E-12	0.7909292	0.342	0.185	8.79E-08	17 PELI1
4.69E-21	0.790160976	0.81	0.717	1.51E-16	17 MKLN1
1.26E-10	0.789932515	0.316	0.18	4.05E-06	17 SLC12A2
3.33E-14	0.788901296	0.485	0.319	1.07E-09	17 INPP5A
4.25E-12	0.788606788	0.35	0.196	1.36E-07	17 RPS6KA5
2.13E-08	0.78502742	0.629	0.55	0.000683832	17 PDLIM5
3.18E-64	0.783804387	0.253	0.038	1.02E-59	17 MYL9
1.28E-13	0.783045387	0.346	0.179	4.10E-09	17 ANGPT1
1.45E-15	0.779102241	0.464	0.259	4.65E-11	17 PSD3
2.17E-05	0.775987725	0.316	0.239	0.69793551	17 SEPTIN7P2
5.01E-12	0.775832853	0.54	0.404	1.61E-07	17 SEPTIN7
2.53E-25	0.773761905	0.312	0.112	8.11E-21	17 ADCY6
1.14E-05	0.772171657	0.435	0.345	0.367150633	17 GLCC11
8.52E-09	0.76931958	0.473	0.356	0.000273631	17 ATP2A2
2.52E-24	0.769264004	0.388	0.156	8.10E-20	17 SIPA1L2
1.59E-12	0.769048154	0.586	0.456	5.10E-08	17 PACSIN2
8.07E-15	0.765066668	0.582	0.413	2.59E-10	17 MIR4435-2HG
2.63E-35	0.762319834	0.295	0.08	8.44E-31	17 DDR2
8.61E-08	0.760335347	0.291	0.175	0.002764399	17 DTNA
2.19E-07	0.757036013	0.397	0.29	0.007044809	17 DSTN
1.07E-13	0.755907041	0.595	0.451	3.42E-09	17 CPSF6
6.58E-11	0.752346513	0.35	0.195	2.11E-06	17 ZFP36
1.59E-16	0.751785883	0.342	0.162	5.10E-12	17 TRERF1
1.69E-14	0.745908421	0.73	0.615	5.43E-10	17 FER
3.49E-08	0.74218046	0.511	0.395	0.001121021	17 PDGFC
1.22E-08	0.741262477	0.439	0.321	0.000391515	17 KLF9
0.00026221	0.739628363	0.329	0.264	1	17 DOCK3
1.36E-08	0.729023078	0.287	0.167	0.000437523	17 DGKD
2.82E-34	0.727201679	0.3	0.083	9.06E-30	17 NID1
3.19E-13	0.726510506	0.266	0.125	1.02E-08	17 LRIG1
5.46E-09	0.725758053	0.266	0.151	0.000175309	17 KLHL23
1.24E-25	0.724451495	0.262	0.081	3.99E-21	17 TBX2-AS1
1.47E-09	0.721118461	0.422	0.294	4.72E-05	17 LAMC1
5.73E-11	0.720048381	0.312	0.173	1.84E-06	17 ECE1
3.91E-10	0.717622648	0.46	0.319	1.26E-05	17 GTDC1
1.16E-15	0.71615569	0.557	0.374	3.72E-11	17 PIP4K2A
1.45E-14	0.710664885	0.616	0.42	4.66E-10	17 COL4A5
1.81E-15	0.707855475	0.713	0.599	5.81E-11	17 RBFOX2
2.30E-12	0.707139712	0.54	0.395	7.39E-08	17 PPP3CC
6.77E-17	0.707051429	0.262	0.104	2.17E-12	17 RHOB
6.92E-35	0.706421204	0.283	0.075	2.22E-30	17 OSBPL5
6.05E-09	0.705997268	0.257	0.135	0.000194279	17 SH3BP5
1.40E-55	0.700464745	0.257	0.044	4.50E-51	17 PDLIM7
1.20E-16	0.69975888	0.549	0.332	3.85E-12	17 ANKRD44
2.51E-07	0.699347674	0.506	0.418	0.008070499	17 RNF180
7.99E-30	0.699150753	0.27	0.076	2.57E-25	17 LRRC8C
5.35E-10	0.698425871	0.371	0.241	1.72E-05	17 KPNA5

8.01E-08	0.697952736	0.473	0.368	0.002572603	17 SESN1
2.46E-07	0.695775728	0.578	0.494	0.007898293	17 HIF1A
1.65E-07	0.693044455	0.333	0.223	0.005313841	17 PDE5A
5.53E-05	0.691370791	0.376	0.287	1	17 MID1
3.51E-21	0.687104207	0.35	0.149	1.13E-16	17 TNS2
1.40E-15	0.686323712	0.641	0.475	4.49E-11	17 ASCC3
6.72E-11	0.685096993	0.473	0.342	2.16E-06	17 TNRC6C
2.92E-14	0.684082154	0.709	0.559	9.37E-10	17 ARID5B
9.52E-27	0.683302483	0.274	0.085	3.06E-22	17 INF2
6.23E-17	0.682355006	0.287	0.124	2.00E-12	17 CSRP1
2.13E-14	0.679281924	0.675	0.513	6.86E-10	17 ANKRD36C
1.79E-06	0.678942359	0.367	0.269	0.057410839	17 LONRF1
5.15E-14	0.677903587	0.384	0.211	1.65E-09	17 NAMPT
1.47E-20	0.672699274	0.844	0.635	4.72E-16	17 AKT3
1.54E-10	0.670333866	0.599	0.476	4.96E-06	17 ETV6
5.03E-11	0.669824336	0.565	0.46	1.62E-06	17 NBPFF19
5.43E-21	0.669723546	0.312	0.126	1.74E-16	17 MEF2D
1.92E-19	0.669173619	0.262	0.094	6.16E-15	17 NPY1R
2.80E-17	0.668841212	0.333	0.15	9.00E-13	17 RAB31
1.12E-10	0.666505178	0.506	0.379	3.60E-06	17 NAA35
1.98E-09	0.665537072	0.675	0.563	6.37E-05	17 MYO1E
2.04E-10	0.663157202	0.266	0.137	6.54E-06	17 SERTAD2
1.39E-09	0.663007401	0.392	0.253	4.48E-05	17 SNED1
2.32E-07	0.661210924	0.443	0.321	0.007449621	17 DUSP1
2.50E-10	0.659682928	0.266	0.134	8.02E-06	17 JUNB
1.55E-12	0.658752049	0.325	0.17	4.99E-08	17 ARHGAP44
2.24E-05	0.657526662	0.266	0.173	0.720397765	17 TIPARP
7.50E-10	0.654796953	0.523	0.394	2.41E-05	17 PHLPP1
3.58E-15	0.644308108	0.789	0.644	1.15E-10	17 TTC28
2.04E-14	0.639740897	0.743	0.56	6.56E-10	17 TSC22D1
1.19E-07	0.63843914	0.629	0.566	0.003826717	17 PAM
1.96E-26	0.634385217	0.266	0.08	6.29E-22	17 FBN1
2.48E-10	0.633327945	0.376	0.232	7.95E-06	17 GSN
2.76E-24	0.627948923	0.827	0.485	8.87E-20	17 PDE1A
2.60E-09	0.626008804	0.278	0.152	8.34E-05	17 FGFR1
5.24E-12	0.625626035	0.266	0.13	1.68E-07	17 NAF1
4.59E-08	0.622414742	0.43	0.313	0.001473633	17 MICU3
1.51E-17	0.621189874	0.3	0.124	4.84E-13	17 AFAP1L2
2.61E-06	0.62087664	0.515	0.457	0.083717283	17 BMPR1A
9.61E-08	0.619390566	0.38	0.251	0.003086372	17 HIVEP3
0.00102722	0.619358338	0.414	0.372	1	17 CACUL1
0.00030395	0.618115771	0.27	0.193	1	17 PRELID2
2.21E-26	0.617611108	0.253	0.073	7.11E-22	17 AC093423.2
3.15E-12	0.612663881	0.262	0.121	1.01E-07	17 JAM3
5.71E-05	0.611800894	0.498	0.421	1	17 GHR
6.92E-08	0.610303816	0.591	0.487	0.002221429	17 ESYT2
3.61E-12	0.610033175	0.388	0.215	1.16E-07	17 CYTOR
6.33E-05	0.608950255	0.599	0.574	1	17 USP53
4.13E-05	0.608660616	0.603	0.557	1	17 MRTFA
2.87E-09	0.607936658	0.489	0.369	9.22E-05	17 PITPNB
8.23E-07	0.607255823	0.359	0.245	0.02643026	17 JAZF1

1.79E-07	0.605259351	0.316	0.203	0.00576408	17 LMNA
3.01E-08	0.604853301	0.262	0.152	0.000966842	17 PPP4R1L
1.02E-12	0.604534446	0.705	0.518	3.27E-08	17 NFIA
7.80E-14	0.602747495	0.65	0.503	2.51E-09	17 NBPF14
5.95E-06	0.600781787	0.426	0.355	0.191117677	17 ATP10D
0.00024282	0.59758257	0.477	0.432	1	17 FAM214A
2.93E-06	0.595099189	0.515	0.432	0.094229457	17 MCPH1
5.48E-08	0.593063513	0.578	0.441	0.001761162	17 THSD4
2.29E-06	0.590120276	0.612	0.578	0.073574727	17 CLASP2
3.18E-06	0.588499607	0.519	0.42	0.102081318	17 ANK2
8.48E-13	0.588464064	0.257	0.117	2.72E-08	17 HSPG2
1.36E-09	0.588084406	0.684	0.607	4.37E-05	17 FRYL
3.36E-06	0.586628835	0.502	0.423	0.107945568	17 ASAP1
4.50E-07	0.58390981	0.363	0.252	0.014455285	17 MARK1
6.27E-05	0.583508943	0.354	0.26	1	17 SYT1
4.80E-12	0.582998922	0.333	0.178	1.54E-07	17 PLSCR4
8.94E-07	0.582832214	0.439	0.333	0.028716064	17 CREB3L2
1.62E-06	0.582142833	0.709	0.665	0.051938536	17 LIMCH1
2.11E-06	0.581837093	0.565	0.48	0.067882475	17 COL18A1
8.70E-06	0.581593364	0.295	0.201	0.279537964	17 CBL
9.86E-08	0.581126828	0.561	0.479	0.003165586	17 RAP1B
2.80E-06	0.578731884	0.671	0.6	0.089826844	17 CTBP2
3.56E-06	0.578188151	0.405	0.295	0.114296252	17 PBX3
9.28E-11	0.576469062	0.722	0.612	2.98E-06	17 KLF12
1.91E-05	0.575955671	0.401	0.323	0.612952627	17 ALG13
1.62E-05	0.573841482	0.376	0.285	0.519888107	17 PLEKHA2
3.94E-24	0.573133814	0.637	0.4	1.27E-19	17 PLPP1
6.43E-07	0.571522944	0.342	0.222	0.020641049	17 GNAI1
5.94E-08	0.571380682	0.536	0.437	0.001907752	17 LRCH3
7.71E-06	0.56842115	0.388	0.304	0.247563786	17 TRAF3IP2-AS1
3.58E-09	0.568001084	0.354	0.217	0.000114851	17 LAMA5
4.52E-12	0.567512299	0.456	0.283	1.45E-07	17 PCDHGA1
2.64E-06	0.567298954	0.519	0.447	0.084739905	17 PHF14
8.14E-15	0.566828073	0.658	0.511	2.61E-10	17 ARGLU1
0.00189907	0.566621386	0.384	0.318	1	17 ZFP36L1
5.06E-10	0.56555155	0.392	0.246	1.62E-05	17 AC012531.3
1.93E-09	0.564145935	0.65	0.57	6.20E-05	17 UGGT2
1.26E-07	0.563271199	0.376	0.259	0.004051118	17 SEM1
0.00070133	0.562486197	0.27	0.202	1	17 MAPRE2
1.12E-14	0.562472655	0.3	0.14	3.59E-10	17 SLC44A2
0.00070754	0.561487467	0.409	0.344	1	17 PIK3R1
6.25E-05	0.560403004	0.451	0.382	1	17 PEAK1
5.97E-09	0.559233187	0.274	0.152	0.000191618	17 AMOTL1
8.44E-11	0.557870014	0.696	0.602	2.71E-06	17 TMEM131
0.00027592	0.557406976	0.641	0.622	1	17 PDE10A
1.28E-09	0.554343221	0.371	0.238	4.13E-05	17 CDS2
5.55E-06	0.550641158	0.308	0.2	0.17814954	17 GATA3
4.06E-09	0.545786652	0.283	0.159	0.000130239	17 GARNL3
0.0018806	0.545042187	0.376	0.315	1	17 GPRIN3
3.94E-05	0.54401831	0.582	0.548	1	17 AC093752.1
1.44E-06	0.543241992	0.456	0.366	0.046235725	17 MDM2

9.97E-06	0.542124623	0.308	0.211	0.320199608	17 CYTH3
9.27E-06	0.541493935	0.515	0.443	0.297595677	17 RGL3
4.04E-11	0.538979751	0.494	0.34	1.30E-06	17 NAP1L1
0.00235171	0.538363237	0.338	0.277	1	17 SCTR
3.44E-07	0.537751469	0.418	0.295	0.01103792	17 CCND3
4.81E-05	0.535396997	0.384	0.305	1	17 BRWD3
0.00124815	0.535304571	0.3	0.234	1	17 ATP8B1
9.38E-07	0.532979247	0.713	0.667	0.030111734	17 RASA1
3.62E-07	0.53254491	0.485	0.381	0.011612644	17 ANO6
2.38E-12	0.531457696	0.848	0.806	7.65E-08	17 AC016831.6
8.57E-17	0.530600155	0.283	0.119	2.75E-12	17 CSNK1E
5.79E-05	0.529628723	0.384	0.301	1	17 ARFGAP3
7.43E-16	0.529204769	0.291	0.121	2.39E-11	17 COL6A2
8.43E-07	0.523954308	0.519	0.435	0.027084097	17 ZNF280D
0.00153829	0.512094494	0.414	0.373	1	17 FAM168A
9.53E-15	0.511690716	0.624	0.433	3.06E-10	17 VCL
8.00E-07	0.503457181	0.768	0.765	0.025695031	17 KIAA1217
2.94E-11	0.50030205	0.376	0.215	9.45E-07	17 HOXA3
2.99E-14	0.499235394	0.903	0.716	9.60E-10	17 ADAMTS9-AS2
3.54E-07	0.498735281	0.426	0.312	0.011373742	17 SPOP
0.00729584	0.49871713	0.308	0.268	1	17 SMARCA1
0.00842592	0.498707543	0.257	0.212	1	17 INMT-MINDY4
1.64E-05	0.498057991	0.574	0.523	0.526334234	17 NCKAP1
0.00758016	0.496864902	0.637	0.679	1	17 EXT1
3.02E-06	0.496329761	0.532	0.464	0.096861903	17 SMC5
7.42E-08	0.495535081	0.27	0.158	0.00238323	17 NR2F2
1.63E-07	0.494546875	0.354	0.229	0.00522781	17 SOBP
0.00018276	0.492958673	0.388	0.311	1	17 PALM2AKAP2
1.11E-06	0.491344026	0.451	0.353	0.035724739	17 SNX25
0.00061785	0.490176979	0.532	0.518	1	17 NEK7
4.55E-06	0.487978318	0.316	0.22	0.146140718	17 SH3PXD2A
9.42E-05	0.48738603	0.414	0.336	1	17 SPRED1
0.00650896	0.486953736	0.494	0.48	1	17 SNRK
1.35E-06	0.48581163	0.456	0.347	0.043471834	17 PER1
0.00032343	0.483558635	0.624	0.577	1	17 FOXO3
0.00015137	0.479419538	0.27	0.195	1	17 FPGT-TNNI3K
0.00050806	0.479240706	0.468	0.423	1	17 SPRED2
0.00085327	0.478827336	0.485	0.426	1	17 IL6ST
3.85E-05	0.478275561	0.447	0.365	1	17 VPS45
1.91E-06	0.477190297	0.274	0.174	0.061206888	17 CCDC88A
4.07E-06	0.476960672	0.443	0.349	0.130828998	17 CRTC3
1.14E-12	0.472933718	0.751	0.566	3.67E-08	17 DST
4.12E-05	0.472617835	0.367	0.288	1	17 ARPC2
7.02E-06	0.467319496	0.384	0.278	0.225433441	17 STIM1
0.00734483	0.467171276	0.312	0.258	1	17 MTHFD1L
3.91E-09	0.465911471	0.43	0.276	0.000125598	17 SEMA5A
6.64E-07	0.465626711	0.464	0.355	0.021338412	17 ATF7-NPFF
8.07E-06	0.464835764	0.397	0.302	0.259036253	17 CYFIP1
1.39E-05	0.463662945	0.519	0.444	0.445592009	17 IQGAP1
8.76E-06	0.46235654	0.367	0.274	0.281190908	17 MTMR2
0.00790041	0.46146209	0.312	0.269	1	17 BMERB1

0.00011656	0.461287906	0.494	0.395	1	17 ZDHC14
8.93E-06	0.459772412	0.354	0.252	0.286847645	17 MYLK
0.00011611	0.457350515	0.599	0.572	1	17 RABGAP1
0.00032782	0.456231034	0.397	0.316	1	17 ADCY9
2.32E-07	0.454495577	0.84	0.799	0.00746059	17 SBF2
0.00020451	0.454445945	0.65	0.632	1	17 FTO
1.84E-06	0.454187642	0.468	0.374	0.059240426	17 ITGB1
0.00058063	0.452950816	0.304	0.236	1	17 OSMR-AS1
8.81E-09	0.452100017	0.692	0.572	0.000282861	17 CBLB
9.80E-07	0.451309337	0.692	0.655	0.031481823	17 HERC1
2.21E-05	0.449570391	0.485	0.412	0.7100986	17 NBP26
0.00292809	0.449350501	0.359	0.31	1	17 ADAM17
8.44E-06	0.449334191	0.62	0.573	0.270935644	17 PHKB
6.08E-10	0.448106421	0.27	0.139	1.95E-05	17 AC025171.1
0.00033028	0.447541526	0.502	0.452	1	17 SMURF1
0.00171172	0.446031399	0.443	0.397	1	17 CAMSAP2
0.00269465	0.442761618	0.578	0.567	1	17 METTL15
2.83E-06	0.440076649	0.371	0.271	0.090858725	17 NBP10
1.76E-08	0.439499143	0.662	0.547	0.000564816	17 TJP1
5.25E-13	0.439272468	0.287	0.136	1.68E-08	17 LINC01226
0.00140802	0.438841144	0.435	0.385	1	17 EPN2
1.71E-06	0.43820166	0.827	0.786	0.054792015	17 BCAS3
0.0006263	0.431734269	0.409	0.343	1	17 PARVA
0.00095638	0.431456503	0.502	0.437	1	17 EGFR
0.00830723	0.431259273	0.565	0.548	1	17 KAT6B
2.65E-07	0.427687632	0.283	0.17	0.00851192	17 LINC01359
0.00272439	0.424837418	0.481	0.452	1	17 SPECC1L
0.0001787	0.424653303	0.397	0.317	1	17 SH3BGR1
0.00056178	0.420532893	0.553	0.513	1	17 RB1
0.00154342	0.41654871	0.65	0.627	1	17 GSK3B
1.09E-05	0.416522534	0.62	0.537	0.349236752	17 DPYD
0.00140896	0.416046438	0.595	0.595	1	17 BBX
2.01E-05	0.414370714	0.743	0.698	0.646926955	17 NCOA1
0.00847667	0.414053285	0.582	0.568	1	17 YAP1
0.00553127	0.410126688	0.54	0.534	1	17 RIC1
1.08E-09	0.409356971	0.84	0.74	3.48E-05	17 PICALM
0.00610372	0.409253516	0.401	0.368	1	17 CDC27
0.00010051	0.408353952	0.586	0.519	1	17 KIAA1328
0.00835082	0.405507996	0.57	0.557	1	17 SOS2
0.00228731	0.402209753	0.262	0.2	1	17 ITGA3
0.0010435	0.402198694	0.376	0.301	1	17 RAPGEF3
5.95E-05	0.40183328	0.468	0.398	1	17 RBMX
2.74E-05	0.401060113	0.498	0.421	0.879195502	17 TIAM2
0.00024134	0.39754773	0.544	0.51	1	17 EPC1
0.00015594	0.39692073	0.278	0.189	1	17 PCED1B
0.00274265	0.394850258	0.405	0.361	1	17 LINC02256
7.81E-06	0.394656884	0.688	0.639	0.25069938	17 ATXN2
0.00316397	0.394090971	0.3	0.247	1	17 AP3S1
0.00100168	0.3917054	0.316	0.248	1	17 SKI
0.00470151	0.391514342	0.329	0.28	1	17 SP3
5.55E-05	0.391273205	0.494	0.418	1	17 MPDZ

0.00193579	0.387937101	0.485	0.449	1	17 STXBP5
7.35E-05	0.386894146	0.57	0.52	1	17 CEP350
6.63E-05	0.386123023	0.713	0.694	1	17 SENP6
1.29E-05	0.386045681	0.747	0.696	0.415063047	17 AKAP13
0.00342582	0.385185662	0.519	0.506	1	17 RFX3
0.00018894	0.38434109	0.65	0.627	1	17 DDX5
0.00372614	0.383503566	0.43	0.396	1	17 AL451062.2
0.00319103	0.382348008	0.586	0.561	1	17 ACYP2
0.00205324	0.380715416	0.536	0.497	1	17 HIPK3
0.00603325	0.379407171	0.527	0.521	1	17 MYCBP2
4.04E-06	0.379051538	0.371	0.272	0.129758786	17 CPSF7
0.00259388	0.378803052	0.253	0.196	1	17 CCNH
6.62E-05	0.37755616	0.464	0.387	1	17 PJA2
3.84E-05	0.376993172	0.654	0.624	1	17 HERC4
0.00521135	0.376705457	0.384	0.345	1	17 NDFIP1
0.00051499	0.375756398	0.734	0.679	1	17 FNDC3A
0.00659777	0.372358276	0.278	0.227	1	17 FAM228B
0.00043095	0.369416557	0.494	0.428	1	17 MYH9
1.70E-05	0.369257438	0.671	0.645	0.54546189	17 CSNK1A1
2.46E-05	0.367257319	0.27	0.178	0.790245636	17 RUBCN
0.00103992	0.367143319	0.591	0.58	1	17 EPS15
0.00447956	0.366072081	0.287	0.23	1	17 STRADA
0.00056674	0.365965324	0.439	0.388	1	17 TMEM165
0.00053664	0.364525413	0.414	0.339	1	17 ZNF532
0.00622146	0.36279968	0.46	0.439	1	17 RAP1A
0.00039403	0.362167402	0.338	0.261	1	17 TRPC1
6.93E-05	0.361814048	0.662	0.628	1	17 ARID4B
0.00082765	0.356983143	0.435	0.355	1	17 AASS
0.00377255	0.356858593	0.536	0.505	1	17 PHF21A
9.56E-06	0.354437759	0.384	0.281	0.307134777	17 CERS6
2.37E-05	0.353423752	0.747	0.706	0.762507321	17 SON
0.0037001	0.351472259	0.447	0.415	1	17 MPRIP
0.00077329	0.351472096	0.734	0.733	1	17 STAG1
0.00120785	0.349436662	0.561	0.534	1	17 PTBP2
1.33E-05	0.346400634	0.329	0.221	0.427268331	17 ST3GAL1
0.00018515	0.345055452	0.608	0.556	1	17 AEBP2
0.00517152	0.343968329	0.477	0.429	1	17 SKAP2
0.00639732	0.341641925	0.333	0.286	1	17 AC133644.2
0.00277066	0.33683275	0.511	0.461	1	17 PCGF5
0.00281851	0.336730939	0.443	0.407	1	17 RYK
9.64E-06	0.335474747	0.696	0.658	0.309553198	17 KMT2E
0.00013694	0.33399467	0.823	0.804	1	17 TCF12
0.00925226	0.333065443	0.346	0.306	1	17 AL731577.2
0.00173897	0.332211353	0.3	0.236	1	17 ARMC2
0.00266307	0.331580685	0.27	0.21	1	17 BAZ2A
0.0002914	0.326891927	0.308	0.224	1	17 HK1
1.22E-08	0.326098442	0.443	0.274	0.000390616	17 سنتب1
0.00993327	0.324240619	0.435	0.407	1	17 FBXW4
4.74E-05	0.322937041	0.291	0.191	1	17 PLXNA2
0.00824639	0.315000754	0.464	0.431	1	17 ERCC6L2
1.28E-05	0.313765145	0.802	0.767	0.411622872	17 ASH1L

6.75E-05	0.313310011	0.722	0.688	1	17	TRIO
0.00111318	0.309613956	0.92	0.935	1	17	MT-RNR1
0.00410054	0.308669448	0.519	0.477	1	17	ADD1
3.59E-05	0.304434617	0.654	0.555	1	17	STARD13
0.0043593	0.304065769	0.481	0.443	1	17	FUS
0.00471271	0.303853003	0.65	0.618	1	17	GPATCH8
0.00042934	0.300254322	0.797	0.772	1	17	AFF1
0.00546353	0.299447445	0.253	0.196	1	17	RAB27A
0.00825829	0.297180832	0.359	0.305	1	17	ZNF37BP
0.00111967	0.294393897	0.595	0.533	1	17	HIVEP2
0.00640965	0.292878344	0.342	0.284	1	17	INPP4A
0.0008252	0.292477546	0.7	0.684	1	17	MON2
0.00590354	0.291637049	0.485	0.467	1	17	UBR1
1.70E-05	0.288630278	0.709	0.659	0.544437957	17	UBR3
0.00608425	0.288417509	0.65	0.65	1	17	TNKS
0.00165559	0.287941151	0.578	0.546	1	17	SMCHD1
0.00373138	0.287231291	0.489	0.456	1	17	SRSF10
0.0001495	0.28198349	0.582	0.485	1	17	POU2F1
0.00298035	0.276318174	0.519	0.485	1	17	TLK2
9.45E-05	0.273613998	0.776	0.7	1	17	ZSWIM6
0.00350722	0.273051907	0.624	0.62	1	17	USP47
8.00E-06	0.267927093	0.511	0.371	0.256797611	17	MYO1B
0.00401366	0.267129092	0.608	0.616	1	17	OGA
0.00966298	0.263342908	0.333	0.282	1	17	NISCH
0.00146851	0.258905156	0.797	0.812	1	17	PRH1
0.00477198	0.253816638	0.291	0.235	1	17	IDS
6.49E-05	0.252926441	0.802	0.758	1	17	VPS13B
0.009495	0.252859664	0.595	0.582	1	17	PIAS1
9.95E-145	3.765505774	0.886	0.276	3.19E-140	18	CALD1
0	3.617226717	0.532	0.01	0	18	C7
1.82E-147	3.603057101	0.716	0.147	5.83E-143	18	NEGR1
6.57E-287	3.02812589	0.572	0.043	2.11E-282	18	CCN1
1.96E-145	2.998635518	0.925	0.272	6.30E-141	18	AC098650.1
0	2.925416958	0.622	0.035	0	18	SYNPO2
1.81E-278	2.914297566	0.776	0.082	5.81E-274	18	EBF1
1.29E-171	2.858875069	0.741	0.124	4.13E-167	18	SLIT3
7.26E-135	2.84915394	0.642	0.117	2.33E-130	18	TSHZ2
0	2.80319586	0.667	0.053	0	18	SVEP1
4.24E-91	2.799013019	0.811	0.344	1.36E-86	18	ITGA1
1.85E-37	2.683035623	0.622	0.325	5.95E-33	18	COL4A1
2.25E-53	2.664273788	0.398	0.097	7.22E-49	18	THBS1
1.49E-204	2.638151209	0.433	0.032	4.77E-200	18	SLC2A3
3.67E-144	2.627885446	0.672	0.125	1.18E-139	18	MEIS1
6.69E-130	2.619617635	0.771	0.182	2.15E-125	18	ZFPM2
4.49E-70	2.61363915	0.502	0.13	1.44E-65	18	ATRNL1
2.03E-46	2.594250647	0.512	0.178	6.52E-42	18	FOS
2.22E-156	2.579556362	0.498	0.06	7.14E-152	18	GUCY1A2
1.46E-294	2.570817766	0.463	0.026	4.70E-290	18	MGP
1.12E-62	2.524921136	0.831	0.548	3.61E-58	18	PDLIM5
1.05E-110	2.523051453	0.647	0.134	3.38E-106	18	AKAP12
2.30E-140	2.52107397	0.667	0.12	7.38E-136	18	RBMS3

3.66E-66	2.507150469	0.647	0.235	1.18E-61	18 SORBS1
6.75E-49	2.504029134	0.632	0.29	2.17E-44	18 DMD
6.94E-91	2.502796328	0.517	0.103	2.23E-86	18 LHFPL6
1.43E-51	2.501763596	0.602	0.236	4.58E-47	18 UBC
4.92E-138	2.486550606	0.418	0.046	1.58E-133	18 COL12A1
3.05E-87	2.469014858	0.642	0.162	9.81E-83	18 TMTC1
1.53E-258	2.46282057	0.532	0.041	4.91E-254	18 CDH11
8.77E-31	2.44844983	0.453	0.184	2.82E-26	18 ROBO1
1.05E-241	2.422086324	0.532	0.044	3.36E-237	18 ABCA8
6.63E-218	2.403158598	0.836	0.12	2.13E-213	18 MEIS2
6.41E-183	2.394023572	0.592	0.071	2.06E-178	18 NFASC
1.00E-48	2.359824051	0.572	0.221	3.22E-44	18 NR4A1
3.49E-18	2.350244436	0.672	0.573	1.12E-13	18 USP53
1.48E-146	2.345277568	0.652	0.11	4.77E-142	18 AFF3
1.89E-52	2.333866412	0.507	0.164	6.06E-48	18 ZEB2
4.57E-97	2.330648133	0.542	0.107	1.47E-92	18 GNA14
2.28E-65	2.288222605	0.597	0.186	7.32E-61	18 HSPA1B
1.33E-89	2.271148949	0.448	0.079	4.28E-85	18 FBN1
5.13E-153	2.243222528	0.746	0.137	1.65E-148	18 CACNA1C
8.46E-95	2.238166297	0.433	0.071	2.72E-90	18 LPAR1
0	2.173083719	0.438	0.007	0	18 COL1A2
1.29E-43	2.146802464	0.259	0.05	4.15E-39	18 FOSB
0	2.137428355	0.378	0.016	0	18 MOXD1
3.86E-140	2.102878821	0.542	0.077	1.24E-135	18 PID1
3.14E-299	2.097701162	0.498	0.03	1.01E-294	18 FBLN5
4.21E-111	2.087848306	0.642	0.14	1.35E-106	18 EPB41L2
2.13E-218	2.081568096	0.478	0.038	6.83E-214	18 CPED1
1.18E-77	2.069526841	0.498	0.114	3.80E-73	18 ABCA6
4.58E-72	2.053626343	0.532	0.134	1.47E-67	18 HSPA1A
1.97E-37	2.047891521	0.701	0.451	6.31E-33	18 PALLD
2.54E-19	2.011339874	0.274	0.103	8.17E-15	18 GLUL
2.81E-47	1.989852102	0.403	0.108	9.03E-43	18 A2M
1.09E-68	1.97895217	0.607	0.19	3.51E-64	18 NR2F1-AS1
2.32E-49	1.969858347	0.831	0.603	7.45E-45	18 AC012409.2
0	1.965603796	0.473	0.013	0	18 CARMN
1.22E-29	1.938869323	0.274	0.075	3.93E-25	18 CYP4Z2P
3.43E-69	1.898535164	0.318	0.051	1.10E-64	18 GEM
4.12E-25	1.887246487	0.512	0.265	1.32E-20	18 LAMA2
3.46E-87	1.869799903	0.537	0.113	1.11E-82	18 RAPGEF5
2.68E-77	1.867664373	0.428	0.082	8.62E-73	18 TENT5A
0	1.834410952	0.393	0.016	0	18 AEBP1
6.78E-35	1.831567362	0.672	0.403	2.18E-30	18 MAP3K5
2.41E-77	1.82400771	0.453	0.093	7.75E-73	18 ABCA9-AS1
8.39E-38	1.802992778	0.512	0.204	2.70E-33	18 ESR1
2.05E-12	1.79417255	0.473	0.343	6.58E-08	18 PIK3R1
2.61E-55	1.78712649	0.652	0.26	8.37E-51	18 TPM1
5.43E-50	1.786932395	0.343	0.076	1.74E-45	18 DCLK1
2.87E-79	1.786360007	0.463	0.091	9.23E-75	18 GRK5
3.72E-51	1.780444967	0.522	0.167	1.19E-46	18 DLC1
9.72E-16	1.779868678	0.438	0.248	3.12E-11	18 SYN3
5.07E-47	1.76652689	0.403	0.107	1.63E-42	18 C1orf21

3.57E-21	1.765232057	0.602	0.395	1.15E-16	18 INPP4B
1.12E-120	1.763064733	0.368	0.04	3.59E-116	18 ADAMTS12
5.73E-70	1.75817935	0.403	0.08	1.84E-65	18 DDR2
5.08E-44	1.755192036	0.816	0.589	1.63E-39	18 MIR99AHG
4.47E-88	1.736645575	0.468	0.088	1.43E-83	18 ANTXR1
3.37E-16	1.730830362	0.373	0.19	1.08E-11	18 SPECC1
5.35E-28	1.728984279	0.662	0.431	1.72E-23	18 COL4A2
1.81E-146	1.723370931	0.473	0.054	5.81E-142	18 RUNX1T1
1.80E-44	1.72046375	0.488	0.167	5.77E-40	18 TPM4
1.50E-41	1.713218328	0.413	0.124	4.82E-37	18 LTBP1
1.36E-22	1.710933274	0.254	0.079	4.38E-18	18 NR4A3
9.36E-246	1.708523511	0.328	0.015	3.01E-241	18 ADH1B
4.95E-10	1.708126917	0.368	0.246	1.59E-05	18 DDAH1
6.57E-31	1.676060043	0.498	0.216	2.11E-26	18 KALRN
1.43E-79	1.675087584	0.478	0.097	4.59E-75	18 MSRB3
6.46E-53	1.66863194	0.323	0.065	2.08E-48	18 STAMBPL1
1.56E-85	1.662544123	0.303	0.037	5.01E-81	18 CRISPLD2
1.88E-27	1.651700247	0.831	0.764	6.05E-23	18 KIAA1217
7.52E-94	1.647571498	0.458	0.074	2.41E-89	18 MEG3
6.03E-49	1.638037164	0.905	0.624	1.94E-44	18 PRKG1
1.46E-132	1.635612601	0.413	0.046	4.68E-128	18 LAMA4
8.36E-91	1.6264305	0.303	0.036	2.68E-86	18 MAP1B
3.90E-219	1.625722741	0.428	0.031	1.25E-214	18 C1S
5.05E-45	1.619093531	0.483	0.162	1.62E-40	18 RFTN1
1.58E-155	1.612070396	0.348	0.028	5.09E-151	18 DCN
4.48E-17	1.611127758	0.423	0.224	1.44E-12	18 ADAMTSL1
1.41E-31	1.604417195	0.274	0.07	4.54E-27	18 SLC7A2
1.64E-34	1.600659338	0.766	0.517	5.26E-30	18 NFIA
5.80E-21	1.590977715	0.343	0.138	1.86E-16	18 ATF3
2.74E-39	1.589219003	0.507	0.182	8.80E-35	18 ADAMTSL3
6.06E-48	1.586672307	0.363	0.086	1.95E-43	18 SULF1
5.51E-66	1.585533883	0.627	0.182	1.77E-61	18 FBXL7
3.69E-18	1.581699908	0.413	0.21	1.19E-13	18 OSMR
1.43E-22	1.567176195	0.343	0.13	4.58E-18	18 COL8A1
4.34E-31	1.565137078	0.378	0.126	1.39E-26	18 NAV3
7.62E-91	1.564630608	0.408	0.063	2.45E-86	18 LINC01197
3.02E-45	1.56421137	0.483	0.161	9.69E-41	18 TRERF1
7.41E-10	1.562742512	0.478	0.363	2.38E-05	18 HSP90AA1
1.21E-29	1.552220651	0.289	0.079	3.89E-25	18 PLCXD3
4.86E-49	1.550274789	0.463	0.137	1.56E-44	18 FLNA
3.76E-14	1.548667923	0.338	0.174	1.21E-09	18 RIPOR3
4.27E-65	1.544275906	0.328	0.055	1.37E-60	18 CD44
2.57E-38	1.528251936	0.662	0.321	8.24E-34	18 NRP1
1.49E-21	1.525666441	0.418	0.194	4.79E-17	18 ZFP36
3.26E-42	1.521913766	0.498	0.177	1.05E-37	18 PLSCR4
1.90E-57	1.511301736	0.378	0.082	6.12E-53	18 NID1
1.62E-29	1.511282699	0.617	0.326	5.21E-25	18 LDLRAD4
3.08E-18	1.501111282	0.438	0.241	9.89E-14	18 SLC38A2
1.42E-31	1.496184292	0.662	0.4	4.55E-27	18 PLPP1
1.10E-101	1.491847734	0.343	0.04	3.53E-97	18 FLRT2
6.06E-23	1.49159453	0.383	0.156	1.95E-18	18 EGR1

1.85E-99	1.490148577	0.353	0.044	5.94E-95	18 FHL2
2.89E-48	1.487512376	0.378	0.093	9.27E-44	18 NPY1R
1.29E-79	1.487462287	0.338	0.05	4.15E-75	18 ABCA9
4.31E-296	1.475244701	0.368	0.016	1.38E-291	18 GLI2
4.51E-276	1.470885394	0.294	0.01	1.45E-271	18 COL3A1
8.66E-61	1.469964579	0.338	0.063	2.78E-56	18 FILIP1
0	1.468456485	0.318	0.011	0	18 COL16A1
1.31E-49	1.459817548	0.438	0.122	4.21E-45	18 ACTN1
0.00390784	1.45860908	0.264	0.213	1	18 NAMPT
6.35E-38	1.45473911	0.647	0.335	2.04E-33	18 LIMA1
6.83E-97	1.45294353	0.403	0.058	2.19E-92	18 ZFPM2-AS1
3.13E-13	1.443535614	0.413	0.242	1.01E-08	18 ARHGAP42
3.73E-12	1.439141287	0.303	0.156	1.20E-07	18 CCDC102B
3.50E-33	1.433657812	0.403	0.137	1.12E-28	18 NCALD
1.85E-27	1.423438834	0.398	0.153	5.93E-23	18 JUN
2.40E-30	1.422183422	0.756	0.549	7.71E-26	18 PDE3A
3.96E-124	1.418005135	0.443	0.053	1.27E-119	18 CFH
1.16E-80	1.399505061	0.353	0.053	3.73E-76	18 NR2F1
9.94E-12	1.398030874	0.552	0.476	3.19E-07	18 ETV6
1.43E-28	1.396859401	0.448	0.192	4.59E-24	18 DENND2B
5.02E-42	1.392381207	0.433	0.13	1.61E-37	18 SLC9A9
1.27E-05	1.387507983	0.567	0.576	0.408231637	18 CRIM1
2.15E-48	1.385571475	0.299	0.058	6.92E-44	18 CCN2
0	1.382712516	0.289	0.008	0	18 FBLN1
1.82E-25	1.381983714	0.711	0.51	5.85E-21	18 AUTS2
5.70E-15	1.373364439	0.363	0.181	1.83E-10	18 TENM3
1.01E-119	1.370963279	0.274	0.022	3.26E-115	18 GFRA1
8.74E-47	1.369468044	0.289	0.057	2.81E-42	18 CHSY3
2.44E-13	1.364147462	0.284	0.132	7.82E-09	18 HSPA8
0	1.36027524	0.269	0.007	0	18 PRRX1
3.65E-05	1.359029179	0.313	0.224	1	18 FGF14
3.81E-72	1.357355635	0.632	0.181	1.22E-67	18 LDB2
4.77E-16	1.355365069	0.259	0.1	1.53E-11	18 HSPB1
7.48E-16	1.352101901	0.373	0.19	2.40E-11	18 ENAH
6.43E-43	1.344225646	0.313	0.073	2.06E-38	18 TNXB
2.34E-50	1.339648112	0.289	0.055	7.52E-46	18 CYP1B1
1.51E-28	1.337152831	0.791	0.651	4.86E-24	18 EHBP1
1.20E-16	1.326645411	0.507	0.325	3.85E-12	18 ACTB
7.32E-21	1.323291554	0.473	0.251	2.35E-16	18 MYLK
6.21E-26	1.32232005	0.303	0.096	1.99E-21	18 XYLT1
1.20E-11	1.322018126	0.602	0.535	3.86E-07	18 PPP1R12B
1.47E-153	1.318981184	0.294	0.02	4.71E-149	18 ADAMTS2
1.04E-21	1.315991825	0.672	0.44	3.36E-17	18 THSD4
4.55E-20	1.308043003	0.522	0.329	1.46E-15	18 NR2F2-AS1
3.45E-29	1.307362196	0.408	0.146	1.11E-24	18 KLHL29
2.18E-95	1.305874875	0.323	0.039	7.00E-91	18 PLA2G4A
1.18E-19	1.302748637	0.468	0.257	3.79E-15	18 MTHFD1L
5.42E-14	1.301099326	0.259	0.111	1.74E-09	18 VLDLR-AS1
2.10E-24	1.300188231	0.308	0.101	6.74E-20	18 CCBE1
2.06E-55	1.288847637	0.279	0.046	6.62E-51	18 ADAMTSL2
4.94E-15	1.28753187	0.602	0.528	1.59E-10	18 PTEN

2.76E-24	1.286292621	0.677	0.471	8.86E-20	18 SSBP2
3.85E-41	1.279447629	0.836	0.565	1.24E-36	18 DST
5.50E-24	1.278397458	0.308	0.109	1.77E-19	18 C12orf60
2.81E-13	1.276436795	0.353	0.188	9.04E-09	18 ABI3BP
6.94E-25	1.275859755	0.572	0.293	2.23E-20	18 MIR100HG
2.25E-191	1.269606558	0.279	0.014	7.23E-187	18 LINC00924
1.73E-29	1.265137204	0.378	0.132	5.54E-25	18 SLC24A3
3.30E-10	1.245780678	0.284	0.145	1.06E-05	18 PCDH7
1.06E-26	1.245302086	0.517	0.242	3.39E-22	18 ZEB1
4.32E-05	1.243961883	0.697	0.641	1	18 SLCO5A1
2.36E-38	1.237596583	0.274	0.061	7.57E-34	18 CRACD
2.21E-11	1.230598972	0.632	0.605	7.09E-07	18 IGFBP7
2.24E-12	1.229479051	0.259	0.117	7.19E-08	18 ETS2
4.56E-16	1.228153637	0.438	0.233	1.47E-11	18 CLIC4
9.89E-20	1.227702557	0.353	0.157	3.18E-15	18 NR2F2
3.68E-19	1.21937026	0.607	0.422	1.18E-14	18 ASAP1
1.24E-11	1.218918078	0.542	0.375	4.00E-07	18 SAMD4A
2.41E-28	1.213874418	0.328	0.107	7.75E-24	18 COL5A2
2.43E-29	1.208717065	0.358	0.123	7.82E-25	18 CSRPI
6.88E-20	1.206143794	0.512	0.262	2.21E-15	18 ARHGAP10
3.22E-31	1.1995504	0.378	0.12	1.03E-26	18 COL6A2
1.70E-21	1.198936929	0.652	0.433	5.47E-17	18 VCL
5.87E-25	1.190003067	0.657	0.389	1.89E-20	18 RERG
2.72E-12	1.189249843	0.542	0.426	8.72E-08	18 DAAM1
1.16E-34	1.188543025	0.736	0.379	3.73E-30	18 SOX5
4.99E-26	1.186818948	0.274	0.081	1.60E-21	18 COL14A1
8.05E-42	1.182680337	0.279	0.059	2.58E-37	18 FSTL1
2.08E-19	1.177533072	0.274	0.096	6.69E-15	18 PRICKLE1
1.55E-28	1.173275043	0.483	0.202	4.97E-24	18 FIGN
3.39E-50	1.173085496	0.303	0.058	1.09E-45	18 ARHGAP15
7.98E-53	1.169473512	0.274	0.047	2.56E-48	18 LINC02884
1.16E-19	1.169265822	0.667	0.511	3.72E-15	18 UACA
9.00E-32	1.160133754	0.328	0.093	2.89E-27	18 MSC-AS1
1.51E-10	1.150424204	0.577	0.428	4.86E-06	18 GPC6
3.68E-15	1.14770479	0.348	0.171	1.18E-10	18 STON1
1.01E-63	1.147589753	0.348	0.063	3.23E-59	18 ANTXR2
5.31E-61	1.14744774	0.284	0.044	1.70E-56	18 PDLIM7
3.71E-21	1.146007755	0.348	0.144	1.19E-16	18 NEXN
9.06E-22	1.138113425	0.687	0.536	2.91E-17	18 DPYD
2.41E-11	1.134741434	0.463	0.29	7.73E-07	18 SGIP1
5.62E-11	1.133284886	0.522	0.4	1.81E-06	18 CMSS1
1.21E-11	1.12814318	0.299	0.152	3.87E-07	18 TMEM131L
2.19E-94	1.125319656	0.284	0.03	7.02E-90	18 PDGFRB
9.23E-54	1.12276187	0.338	0.068	2.97E-49	18 MICAL2
6.01E-112	1.120859063	0.259	0.021	1.93E-107	18 MRC2
1.10E-94	1.117729058	0.289	0.03	3.52E-90	18 BOC
9.70E-13	1.114444229	0.408	0.241	3.12E-08	18 EVA1C
4.90E-15	1.110283037	0.687	0.515	1.57E-10	18 TACC1
0.00588921	1.09635434	0.463	0.465	1	18 ZFAND5
1.35E-09	1.093677229	0.289	0.16	4.34E-05	18 HSP90AB1
2.67E-33	1.092322958	0.333	0.097	8.58E-29	18 STON1-GTF2A11

1.95E-22	1.092107395	0.771	0.553	6.26E-18	18 ZBTB16
5.45E-09	1.087916248	0.453	0.321	0.000175198	18 ABCA10
9.03E-24	1.08244655	0.313	0.106	2.90E-19	18 CNTN1
1.71E-07	1.079437131	0.308	0.186	0.00548232	18 ROBO2
5.56E-10	1.075026378	0.527	0.444	1.78E-05	18 MYH10
1.09E-13	1.072088625	0.642	0.513	3.49E-09	18 NAV2
4.85E-16	1.069993634	0.448	0.252	1.56E-11	18 SNED1
1.46E-22	1.066279778	0.368	0.152	4.67E-18	18 SEC24D
1.45E-37	1.060884955	0.259	0.056	4.67E-33	18 MATN2
4.80E-14	1.058926412	0.358	0.185	1.54E-09	18 AP002518.2
1.95E-14	1.057456381	0.299	0.134	6.25E-10	18 JUNB
5.50E-60	1.054295279	0.294	0.048	1.76E-55	18 LINC01798
3.00E-80	1.051153494	0.264	0.03	9.63E-76	18 LRP1
5.56E-19	1.049882936	0.328	0.136	1.79E-14	18 JUND
4.02E-12	1.041574125	0.587	0.438	1.29E-07	18 EPS8
1.56E-18	1.039911495	0.338	0.14	5.00E-14	18 CAMK1D
4.56E-18	1.035905178	0.642	0.504	1.47E-13	18 NBPFL4
1.18E-51	1.034528714	0.408	0.095	3.79E-47	18 KCNT2
2.64E-05	1.029363521	0.393	0.318	0.848867353	18 ZFP36L1
3.39E-16	1.028774226	0.463	0.264	1.09E-11	18 RARB
6.34E-09	1.027768062	0.453	0.321	0.000203579	18 DUSP1
6.79E-22	1.020471343	0.756	0.605	2.18E-17	18 UTRN
9.26E-51	1.018417076	0.313	0.06	2.97E-46	18 FLI1
3.94E-25	1.011870307	0.811	0.634	1.26E-20	18 PBX1
2.36E-30	1.010428797	0.259	0.066	7.59E-26	18 DAAM2
1.32E-05	1.004450612	0.527	0.52	0.425481686	18 HNRNPU
1.58E-15	1.002775678	0.299	0.13	5.08E-11	18 BCL6
2.51E-13	1.001543964	0.323	0.158	8.05E-09	18 EEPD1
1.16E-33	0.994243472	0.264	0.061	3.72E-29	18 PDLIM1
6.74E-08	0.992544167	0.383	0.271	0.002164847	18 RAPH1
1.45E-21	0.992297656	0.284	0.097	4.67E-17	18 GLI3
0.00013791	0.992203935	0.458	0.414	1	18 MIR4435-2HG
2.35E-07	0.990339439	0.502	0.447	0.007550965	18 COL6A3
1.85E-15	0.988513568	0.418	0.231	5.93E-11	18 ZBTB46
7.46E-18	0.983552928	0.313	0.128	2.40E-13	18 RNF144A
1.10E-13	0.978073216	0.517	0.348	3.53E-09	18 PRSS23
3.67E-26	0.973667214	0.333	0.107	1.18E-21	18 SH3RF3
2.69E-25	0.970832672	1	0.999	8.63E-21	18 FP671120.7
3.93E-11	0.963164579	0.363	0.219	1.26E-06	18 PLAGL1
1.12E-10	0.962157553	0.398	0.251	3.58E-06	18 HIVEP3
7.82E-13	0.9589149	0.383	0.208	2.51E-08	18 ROR1
1.22E-08	0.956774481	0.403	0.281	0.000391216	18 CERS6
4.94E-26	0.955945402	0.264	0.076	1.59E-21	18 AC087477.2
3.05E-09	0.94437305	0.373	0.232	9.79E-05	18 UST
6.39E-26	0.943771852	0.269	0.077	2.05E-21	18 LDLRAD3
9.31E-15	0.93137565	0.622	0.476	2.99E-10	18 FCHSD2
1.42E-08	0.930471559	0.338	0.224	0.00045708	18 PDE5A
1.11E-09	0.918928658	0.323	0.185	3.57E-05	18 IL1R1
3.90E-10	0.918600681	0.398	0.269	1.25E-05	18 LONRF1
2.63E-12	0.917581611	0.264	0.121	8.44E-08	18 TRIM5
1.80E-12	0.909774449	0.632	0.513	5.77E-08	18 ANKRD36C

3.29E-30	0.909494511	0.269	0.068	1.06E-25	18 NUAK1
1.73E-08	0.898508132	0.647	0.618	0.00055616	18 RBMS1
4.30E-11	0.895801687	0.353	0.197	1.38E-06	18 CENPP
5.83E-18	0.89396509	0.294	0.115	1.87E-13	18 SLC16A1-AS1
7.87E-07	0.891114337	0.622	0.64	0.025262627	18 TNS3
2.74E-15	0.889225932	0.582	0.394	8.79E-11	18 DIAPH2
3.82E-13	0.883647823	0.736	0.684	1.23E-08	18 PLXDC2
1.01E-05	0.882114572	0.443	0.383	0.325779952	18 PEAK1
5.29E-10	0.878381138	0.736	0.71	1.70E-05	18 UBE2E2
4.84E-10	0.876469798	0.602	0.528	1.56E-05	18 BMPR2
3.67E-07	0.872677749	0.502	0.428	0.011794063	18 MYH9
0.00038806	0.870632715	0.423	0.385	1	18 JAK2
2.39E-23	0.87050602	0.264	0.081	7.68E-19	18 C2CD2
3.93E-18	0.866804991	0.294	0.113	1.26E-13	18 TLE2
2.44E-15	0.864842624	0.483	0.26	7.85E-11	18 PSD3
1.67E-07	0.855767001	0.294	0.179	0.005354129	18 ADARB1
0.00015025	0.845572152	0.428	0.396	1	18 STT3B
1.28E-09	0.843837999	0.632	0.613	4.11E-05	18 PDXDC1
2.45E-08	0.843266427	0.328	0.207	0.000787966	18 ITGA9
0.00036044	0.836840927	0.333	0.28	1	18 STX12
1.09E-05	0.834432605	0.468	0.406	0.349417689	18 SSBP3
7.12E-08	0.828973555	0.567	0.496	0.002286686	18 SH3D19
1.57E-08	0.827965486	0.607	0.548	0.000505428	18 TJP1
0.00045242	0.820387841	0.502	0.497	1	18 COL4A4
8.82E-20	0.819254796	0.254	0.082	2.83E-15	18 SAMHD1
5.02E-05	0.818114692	0.532	0.522	1	18 ROCK1
3.27E-07	0.81790734	0.368	0.261	0.010488471	18 TRPC1
8.87E-09	0.807642112	0.423	0.309	0.000284965	18 NBPFF9
0.00137404	0.806893661	0.537	0.541	1	18 SVIL
5.61E-05	0.801901895	0.294	0.199	1	18 SEMA3C
3.21E-09	0.799467522	0.557	0.421	0.000103081	18 GHR
2.33E-05	0.796841236	0.527	0.482	0.749273028	18 MYO1D
1.25E-07	0.793194894	0.532	0.451	0.004028057	18 SMURF1
2.14E-05	0.791744828	0.418	0.347	0.687002739	18 PER1
3.23E-07	0.789225981	0.642	0.577	0.010379519	18 FOXO3
1.80E-07	0.785478871	0.622	0.625	0.005776782	18 AC058822.1
1.71E-06	0.783761809	0.552	0.512	0.055026196	18 ARGLU1
5.14E-05	0.776201619	0.358	0.265	1	18 LINC01266
9.63E-23	0.770166796	0.428	0.168	3.09E-18	18 EYA4
5.25E-09	0.769489842	0.308	0.177	0.00016866	18 LTBP3
2.23E-16	0.769247987	0.274	0.106	7.18E-12	18 NAV1
4.00E-09	0.768212136	0.398	0.258	0.000128592	18 EPAS1
1.16E-06	0.767828859	0.279	0.175	0.037200605	18 STAT2
6.16E-08	0.765323166	0.264	0.149	0.001979189	18 MFSD1
1.71E-08	0.76418873	0.602	0.55	0.00055011	18 ROCK2
0.00012512	0.762107673	0.393	0.343	1	18 PARVA
2.43E-07	0.761975333	0.378	0.271	0.007794086	18 NBPFF10
1.50E-18	0.757138108	0.413	0.194	4.80E-14	18 TCF4
1.33E-08	0.753507286	0.358	0.227	0.000428619	18 AC019257.8
4.67E-07	0.751207787	0.338	0.221	0.014994301	18 SLCO3A1
2.64E-06	0.747815535	0.438	0.364	0.084789356	18 NOTCH2

2.04E-06	0.744711807	0.517	0.461	0.065559508	18 NBPFI9
1.23E-05	0.743802594	0.318	0.224	0.395697159	18 TXNRD1
0.00205556	0.742622635	0.383	0.333	1	18 CREB3L2
2.51E-07	0.741427605	0.562	0.457	0.008075794	18 DOCK4
6.09E-09	0.738344134	0.597	0.525	0.000195476	18 ANKRD36
3.07E-12	0.737421016	0.313	0.156	9.85E-08	18 GRK3
0.00997836	0.731174989	0.443	0.468	1	18 UBR1
9.94E-08	0.729701613	0.368	0.254	0.003193462	18 NBPFI5
0.00027133	0.724764085	0.279	0.206	1	18 PTPRS
2.26E-05	0.723027909	0.299	0.207	0.72532153	18 ARPC4-TTLL3
3.31E-06	0.721942386	0.473	0.401	0.106147699	18 ACSS3
8.09E-05	0.721193872	0.458	0.412	1	18 NBPFI6
1.66E-13	0.713098743	0.413	0.215	5.32E-09	18 TCF7L1
3.45E-06	0.712592833	0.502	0.408	0.11091023	18 PDZRN3
1.10E-05	0.710721424	0.408	0.328	0.352725261	18 PTPN12
0.00844517	0.71023364	0.537	0.569	1	18 VMP1
0.00021888	0.70949362	0.383	0.313	1	18 CACHD1
4.24E-06	0.705294362	0.294	0.181	0.136293899	18 DOK6
3.77E-10	0.703821167	0.662	0.59	1.21E-05	18 SPTBN1
3.25E-05	0.697396682	0.368	0.276	1	18 GAB2
2.47E-07	0.695903338	0.468	0.375	0.00792215	18 PIP4K2A
1.36E-08	0.69449981	0.552	0.382	0.000437555	18 BNC2
3.03E-05	0.691686197	0.274	0.18	0.972164411	18 ANGPT1
0.00104685	0.690603723	0.428	0.397	1	18 CAMSAP2
0.00014808	0.689187478	0.294	0.22	1	18 PLD1
5.06E-06	0.687216895	0.259	0.16	0.162484722	18 FAT4
0.00224277	0.680115551	0.512	0.517	1	18 TANC1
3.07E-17	0.680036092	0.289	0.112	9.86E-13	18 GABBR1
9.74E-05	0.67515635	0.547	0.529	1	18 SMG6
5.47E-05	0.673097155	0.478	0.442	1	18 KIF13A
0.00335621	0.67293309	0.279	0.216	1	18 CYTOR
0.00033999	0.67101311	0.612	0.573	1	18 CBLB
0.00133829	0.670802228	0.647	0.687	1	18 KAZN
0.00031271	0.666805312	0.264	0.193	1	18 MYO9B
0.00696923	0.663359057	0.507	0.523	1	18 RASAL2
0.00200522	0.663358565	0.358	0.305	1	18 TRAF3IP2-AS1
6.44E-06	0.661467629	0.308	0.211	0.20692277	18 CYTH3
0.00021963	0.659182337	0.393	0.341	1	18 ASPH
0.00775635	0.656939888	0.383	0.375	1	18 ITGB1
1.32E-05	0.656819209	0.308	0.216	0.424455335	18 HOXA3
0.00016654	0.649419065	0.323	0.244	1	18 CEP85L
0.00637514	0.64892157	0.308	0.272	1	18 MORF4L2
1.39E-06	0.647985513	0.264	0.16	0.044562567	18 GARNL3
2.54E-06	0.641174085	0.756	0.783	0.081539082	18 SETBP1
8.34E-09	0.639659824	0.711	0.696	0.000267818	18 AKAP13
7.43E-21	0.639591321	0.318	0.109	2.39E-16	18 FYN
8.35E-05	0.638612144	0.328	0.247	1	18 AC012531.3
0.00018599	0.638573626	0.527	0.521	1	18 MYCBP2
0.00137231	0.636172375	0.502	0.492	1	18 ACTN4
1.69E-05	0.634708326	0.333	0.24	0.541762694	18 ATP11C
0.00143141	0.633108132	0.348	0.284	1	18 PCDHGA1

0.00022186	0.632823678	0.443	0.365	1	18 LMCD1-AS1
4.00E-06	0.628332122	0.806	0.82	0.128376522	18 FP236383.3
1.36E-05	0.625745998	0.522	0.466	0.436405317	18 ANKRD36B
0.00034764	0.625249618	0.617	0.656	1	18 HERC1
2.80E-08	0.625221191	0.806	0.807	0.00089891	18 AC016831.6
0.00093467	0.623567987	0.353	0.285	1	18 PLEKHA2
0.00810922	0.620006143	0.323	0.283	1	18 PLSCR1
0.00106535	0.616747755	0.532	0.548	1	18 AC093752.1
3.47E-08	0.614742142	0.682	0.646	0.0011137	18 TTC28
0.00032514	0.612810332	0.274	0.203	1	18 DNAJB4
4.68E-05	0.60633132	0.318	0.236	1	18 YEATS2
0.0001092	0.601803108	0.308	0.224	1	18 TLE4
1.82E-06	0.599196119	0.746	0.744	0.058537959	18 MBNL1
0.00125409	0.596611726	0.537	0.543	1	18 STAT3
4.85E-08	0.595334035	0.816	0.795	0.00155819	18 RBPMS
0.00232788	0.594502634	0.318	0.265	1	18 PLEKHG1
2.55E-10	0.591099222	0.781	0.732	8.18E-06	18 STAG1
0.000801	0.588811005	0.338	0.275	1	18 MSN
0.00031816	0.58689285	0.617	0.616	1	18 FER
6.54E-13	0.58659124	0.264	0.105	2.10E-08	18 ABCC9
0.00092286	0.586512701	0.632	0.638	1	18 MBNL2
2.01E-07	0.584644788	0.677	0.637	0.006467674	18 AKT3
0.00044824	0.583690865	0.303	0.23	1	18 FAM106A
0.00597198	0.579457373	0.308	0.264	1	18 MLXIP
0.00903458	0.578922763	0.274	0.227	1	18 NECTIN2
0.00209581	0.577032013	0.294	0.23	1	18 SOBP
0.00088426	0.574827817	0.532	0.511	1	18 PPP1CB
9.47E-07	0.567028541	0.279	0.162	0.030398823	18 KIRREL1
0.00045366	0.562942956	0.592	0.633	1	18 FTO
1.69E-05	0.55808059	0.269	0.169	0.543523113	18 DENND2A
0.00148921	0.554210207	0.398	0.349	1	18 DSE
0.00400847	0.553385955	0.453	0.441	1	18 SP100
1.19E-05	0.552377393	0.453	0.37	0.381808875	18 FNBP1
2.20E-08	0.549586801	0.791	0.711	0.000708101	18 DLG2
0.009925	0.549357595	0.597	0.659	1	18 KMT2E
3.36E-05	0.547893246	0.602	0.56	1	18 ARID5B
0.00524765	0.541535414	0.438	0.405	1	18 GULP1
0.00025852	0.537681947	0.254	0.18	1	18 MPZL1
0.00078421	0.536801868	0.289	0.221	1	18 NBPFL20
0.00181941	0.536340199	0.294	0.23	1	18 RNF217
0.00243334	0.527214603	0.294	0.241	1	18 HNRNPLL
4.69E-11	0.524993605	0.423	0.239	1.51E-06	18 ENOX1
1.34E-06	0.524788971	0.602	0.558	0.043051618	18 FOXN3
0.00869251	0.524004232	0.368	0.336	1	18 SPRED1
0.00703241	0.523670339	0.458	0.452	1	18 SPECC1L
0.00286214	0.518181813	0.507	0.495	1	18 FERMT2
5.30E-12	0.509681583	0.905	0.919	1.70E-07	18 FTX
7.05E-07	0.508527684	0.348	0.225	0.022644754	18 MAN1C1
0.00200478	0.505244902	0.552	0.595	1	18 ANKRD10
0.00844111	0.498702364	0.303	0.264	1	18 DCBLD2
8.17E-06	0.497737197	0.373	0.256	0.262468526	18 TGFBR3

2.29E-10	0.496921796	0.985	0.987	7.36E-06	18 FP671120.4
0.00671377	0.470846003	0.353	0.307	1	18 NR3C1
0.00053337	0.469645692	0.463	0.407	1	18 CAMK2D
0.00167929	0.468222951	0.308	0.246	1	18 JAZF1
1.01E-11	0.46585466	1	0.998	3.23E-07	18 HFM1
0.00314752	0.45967149	0.562	0.586	1	18 SRSF11
1.35E-07	0.458782081	0.731	0.739	0.004327385	18 LUC7L3
3.01E-05	0.453972834	0.786	0.779	0.967532304	18 FNDC3B
0.00912035	0.448235043	0.363	0.323	1	18 PARP14
4.66E-06	0.430569801	0.507	0.406	0.149615805	18 FRMD4A
0.00015089	0.420134526	0.254	0.167	1	18 SH3KBP1
0.00863338	0.415004457	0.532	0.566	1	18 UVRAG
0.00951231	0.405790628	0.577	0.623	1	18 TBL1XR1
1.01E-06	0.398531432	0.279	0.165	0.032521854	18 SGCD
0.00017408	0.39393928	0.741	0.79	1	18 PNISR
3.99E-12	0.384458179	0.751	0.676	1.28E-07	18 SYNE1
0.00062228	0.384094064	0.796	0.814	1	18 PARD3B
0.00708205	0.371110462	0.592	0.658	1	18 UBR5
0.00019526	0.34696539	0.731	0.758	1	18 VPS13B
8.59E-05	0.34664947	0.816	0.833	1	18 DDX17
0.00276949	0.34506932	0.313	0.238	1	18 ANKS1B
0.00022569	0.307647465	0.731	0.702	1	18 APBB2
0.00046013	0.300628546	0.736	0.774	1	18 ZNF638
3.23E-07	0.294892526	0.219	0.428	0.010389535	18 PDK4
0.00767924	0.266588084	0.796	0.717	1	18 ADAMTS9-AS2
1.59E-25	0.256193739	0.308	0.092	5.10E-21	18 EMCN
1.26E-106	3.371670383	0.628	0.137	4.06E-102	19 GRM5
0	3.199410803	0.884	0.064	0	19 SATB2
3.66E-179	3.164869622	0.618	0.084	1.18E-174	19 LRRC4C
4.16E-199	3.017832423	0.915	0.185	1.34E-194	19 FOXP2
5.09E-172	2.838942915	0.724	0.12	1.63E-167	19 UNC5D
1.72E-199	2.642224947	0.95	0.209	5.53E-195	19 CD200
8.96E-86	2.608372089	0.744	0.237	2.88E-81	19 KCNMB2
1.66E-112	2.548330981	0.759	0.201	5.32E-108	19 RNF144B
1.25E-104	2.478552851	0.663	0.162	4.01E-100	19 MARCHF1
7.30E-175	2.462609717	0.889	0.17	2.34E-170	19 BX571818.1
2.49E-179	2.431165379	0.819	0.151	8.01E-175	19 PHYHIPL
1.50E-77	2.397672478	0.538	0.126	4.83E-73	19 SLIT3
1.05E-103	2.397383604	0.573	0.111	3.37E-99	19 KCTD16
2.38E-201	2.293332421	0.719	0.101	7.65E-197	19 SLC44A5
1.07E-76	2.212952871	0.508	0.117	3.43E-72	19 CNTN5
2.11E-221	2.210937939	0.879	0.138	6.76E-217	19 PROM1
1.19E-207	2.19696249	0.533	0.051	3.81E-203	19 C8orf34
1.21E-77	2.181371572	0.528	0.122	3.90E-73	19 ADGRL3
1.41E-128	2.178962182	0.709	0.144	4.54E-124	19 EPHA7
2.56E-110	2.117161971	0.839	0.258	8.22E-106	19 TPM1
1.61E-90	2.072787419	0.844	0.293	5.18E-86	19 ALDH1A2
1.48E-79	2.065251384	0.533	0.118	4.74E-75	19 TSHZ2
3.12E-112	2.064908081	0.668	0.141	1.00E-107	19 GBA3
3.54E-114	2.062991093	0.879	0.288	1.14E-109	19 CASC15
1.18E-154	2.05096501	0.497	0.056	3.80E-150	19 H2AC18

3.45E-89	2.048532723	0.915	0.481	1.11E-84	19 ARHGEF35-AS1
1.35E-244	2.020873918	0.693	0.073	4.32E-240	19 AC003984.1
0	2.018889293	0.658	0.017	0	19 ABCA13
3.85E-183	1.966565192	0.704	0.1	1.24E-178	19 DOCK11
5.03E-141	1.953083248	0.693	0.123	1.62E-136	19 H2AC6
3.29E-88	1.928855401	0.869	0.392	1.06E-83	19 AC074386.1
1.39E-95	1.917383699	0.884	0.29	4.46E-91	19 UGT2B7
1.86E-95	1.901161158	0.95	0.416	5.98E-91	19 LINC01320
1.14E-74	1.89566324	0.678	0.204	3.66E-70	19 AC004870.4
9.95E-77	1.87816907	0.437	0.082	3.20E-72	19 KCNMA1
3.65E-238	1.868653142	0.779	0.099	1.17E-233	19 AC092894.1
1.34E-207	1.859569813	0.523	0.048	4.30E-203	19 SMAD9
1.93E-65	1.838708388	0.583	0.17	6.20E-61	19 SHISA9
4.11E-89	1.834577848	0.99	0.57	1.32E-84	19 NEBL
1.40E-80	1.790701608	0.99	0.664	4.48E-76	19 PAX8-AS1
4.16E-129	1.771802535	0.648	0.112	1.34E-124	19 RHEX
4.62E-81	1.748423097	0.894	0.397	1.48E-76	19 STOX2
1.40E-78	1.740518244	0.864	0.374	4.50E-74	19 AC004593.2
1.80E-207	1.732248018	0.683	0.084	5.77E-203	19 SEL1L3
7.39E-67	1.71764621	0.905	0.448	2.37E-62	19 GALNT14
1.91E-68	1.701331757	0.92	0.547	6.13E-64	19 DAPK1
1.77E-41	1.696778001	0.874	0.541	5.68E-37	19 PCAT1
2.14E-80	1.6785658	0.794	0.299	6.86E-76	19 DYNC2LI1
7.43E-77	1.676156341	1	0.739	2.39E-72	19 OXR1
2.00E-87	1.669239398	0.995	0.782	6.42E-83	19 MYO9A
2.08E-96	1.66273708	0.799	0.23	6.67E-92	19 CLIC4
9.83E-60	1.625531469	0.965	0.794	3.16E-55	19 RBPMS
3.17E-62	1.586968176	0.849	0.409	1.02E-57	19 ASTN2
2.11E-113	1.580247681	0.543	0.09	6.77E-109	19 EDIL3
8.10E-82	1.56070598	0.749	0.243	2.60E-77	19 CPVL
5.78E-90	1.559077781	0.693	0.183	1.86E-85	19 DNAH11
2.43E-67	1.558141244	0.95	0.537	7.80E-63	19 PPFIBP1
4.38E-63	1.549576776	0.724	0.276	1.41E-58	19 EVC
7.11E-56	1.543422199	0.724	0.298	2.28E-51	19 PLEKHH2
2.48E-63	1.525756665	0.824	0.386	7.96E-59	19 HNF1B
2.51E-58	1.524864964	0.819	0.399	8.05E-54	19 PPM1H
1.12E-38	1.522369073	0.492	0.168	3.59E-34	19 RGS6
9.03E-77	1.509402494	1	0.83	2.90E-72	19 BICC1
1.26E-66	1.50738991	0.884	0.394	4.06E-62	19 CNTN4
8.95E-65	1.503100308	0.472	0.113	2.88E-60	19 SPON1
1.85E-76	1.498814395	0.734	0.246	5.94E-72	19 TPTE2P6
1.24E-72	1.496128986	0.663	0.197	3.97E-68	19 PFKFB3
2.01E-81	1.481815044	0.673	0.173	6.46E-77	19 CDH2
3.47E-290	1.481349994	0.347	0.014	1.12E-285	19 FUT9
2.63E-160	1.476865435	0.548	0.067	8.46E-156	19 PPP1R14C
5.36E-114	1.469641605	0.482	0.071	1.72E-109	19 DIAPH3
9.65E-97	1.467744987	1	0.877	3.10E-92	19 PKHD1
4.02E-64	1.459464582	0.704	0.257	1.29E-59	19 PRRG1
0	1.457092045	0.467	0.022	0	19 KLRG2
1.92E-55	1.446194679	0.754	0.288	6.17E-51	19 SGIP1
1.11E-126	1.414806773	0.362	0.036	3.57E-122	19 H1-0

1.90E-72	1.414550015	0.543	0.137	6.09E-68	19 SOGA1
7.69E-89	1.401675585	0.844	0.253	2.47E-84	19 XIST
1.09E-60	1.392518952	0.548	0.153	3.50E-56	19 GPC4
6.01E-74	1.38507012	0.558	0.139	1.93E-69	19 HMGA2
4.85E-33	1.37262678	0.583	0.249	1.56E-28	19 AC012593.1
1.50E-51	1.358468086	0.94	0.57	4.80E-47	19 TBC1D4
8.18E-28	1.354921809	0.513	0.23	2.63E-23	19 LNC-LBCS
1.33E-52	1.343970939	0.925	0.603	4.28E-48	19 UTRN
3.17E-52	1.333919356	0.799	0.378	1.02E-47	19 LRRK2
6.59E-32	1.333632595	0.658	0.351	2.12E-27	19 PDXK
7.48E-52	1.32648717	0.472	0.128	2.40E-47	19 MGC27382
1.23E-54	1.31409058	0.538	0.165	3.97E-50	19 H3-3B
1.64E-55	1.311672372	0.618	0.201	5.26E-51	19 FIGN
5.25E-54	1.303986924	0.874	0.429	1.69E-49	19 COL4A2
1.94E-48	1.298322764	0.799	0.423	6.22E-44	19 MAP3K1
3.49E-148	1.287562019	0.523	0.064	1.12E-143	19 ID1
1.38E-37	1.27720364	0.588	0.256	4.44E-33	19 LPIN1
1.14E-61	1.27532429	0.809	0.319	3.67E-57	19 MACC1
3.09E-43	1.274104526	0.804	0.434	9.94E-39	19 EGFR
9.16E-32	1.258991711	0.382	0.122	2.94E-27	19 AC018467.1
9.37E-82	1.258916323	0.417	0.071	3.01E-77	19 LINC02649
2.04E-44	1.256981391	0.729	0.324	6.54E-40	19 COL4A1
2.26E-69	1.254787495	0.613	0.164	7.25E-65	19 AL136234.1
3.18E-27	1.25062028	0.457	0.191	1.02E-22	19 AP000787.1
6.64E-35	1.249302704	0.573	0.243	2.13E-30	19 NPR3
8.31E-67	1.245428333	0.965	0.744	2.67E-62	19 WDFY3
4.27E-79	1.240635454	0.553	0.121	1.37E-74	19 CRYAB
2.89E-73	1.240327711	0.533	0.126	9.27E-69	19 AC005162.2
1.52E-95	1.237640428	0.523	0.093	4.87E-91	19 TMEM163
1.59E-99	1.234794272	0.442	0.067	5.11E-95	19 COL26A1
4.38E-239	1.234396028	0.347	0.017	1.41E-234	19 ASIC5
3.08E-41	1.230635118	0.874	0.546	9.90E-37	19 BCL2
2.71E-49	1.228613059	0.975	0.772	8.71E-45	19 FARP1
4.99E-55	1.224257588	0.613	0.205	1.60E-50	19 TPK1
0	1.215900744	0.407	0.017	0	19 CPE
8.32E-91	1.208792204	0.452	0.077	2.67E-86	19 GREB1L
2.86E-43	1.199959791	0.332	0.075	9.18E-39	19 XKR4
1.83E-56	1.198316781	0.508	0.144	5.86E-52	19 LINC00240
3.02E-55	1.197389527	0.744	0.302	9.70E-51	19 ZNF462
2.50E-98	1.196928824	0.608	0.128	8.03E-94	19 CDKL2
1.02E-47	1.196411071	0.372	0.087	3.28E-43	19 SLC35F3
7.73E-37	1.19403614	0.553	0.219	2.48E-32	19 EML6
2.13E-36	1.189217487	0.824	0.519	6.85E-32	19 ADAM10
2.40E-55	1.184991856	0.683	0.263	7.72E-51	19 HYDIN
1.54E-61	1.184037764	0.578	0.166	4.93E-57	19 JAG1
1.10E-50	1.181326736	0.884	0.523	3.55E-46	19 PAX8
4.42E-109	1.177357322	0.492	0.074	1.42E-104	19 RIPOR2
2.04E-52	1.174213054	0.281	0.049	6.54E-48	19 MTUS2
2.46E-40	1.170237644	0.779	0.375	7.89E-36	19 ITGB8
3.70E-20	1.154585887	0.523	0.274	1.19E-15	19 NRG1
7.03E-171	1.148659054	0.317	0.02	2.26E-166	19 H2AC19

3.52E-37	1.147006139	0.839	0.513	1.13E-32	19 GMDS
5.73E-21	1.139874547	0.518	0.255	1.84E-16	19 CHL1
8.92E-48	1.138722816	0.764	0.353	2.87E-43	19 ADGRA3
2.36E-31	1.138312329	0.849	0.599	7.59E-27	19 ADAMTS9
1.39E-43	1.137212712	0.809	0.446	4.47E-39	19 CDR2
5.33E-51	1.136169426	0.95	0.588	1.71E-46	19 MIR99AHG
3.27E-164	1.134167657	0.302	0.019	1.05E-159	19 BCAS1
5.55E-33	1.134047031	0.714	0.363	1.78E-28	19 NTN4
2.19E-51	1.132730479	0.864	0.392	7.03E-47	19 ZDHC14
1.00E-26	1.127968117	0.261	0.072	3.22E-22	19 PTPRT
5.66E-36	1.127118624	0.824	0.481	1.82E-31	19 GALNT18
3.81E-54	1.11660225	0.995	0.885	1.22E-49	19 IMP2L
5.11E-110	1.112846838	0.352	0.039	1.64E-105	19 NOL4
8.12E-55	1.111339174	0.598	0.202	2.61E-50	19 LBR
3.24E-41	1.098148254	0.779	0.373	1.04E-36	19 ARHGAP26
4.21E-38	1.098136169	0.709	0.364	1.35E-33	19 GRHL2
6.29E-49	1.094190178	0.332	0.071	2.02E-44	19 TMEM132D
1.54E-20	1.08690444	0.824	0.615	4.94E-16	19 MRPS6
1.88E-31	1.081731159	0.613	0.267	6.03E-27	19 PRUNE2
1.43E-27	1.074991008	0.894	0.658	4.60E-23	19 HIPK2
3.78E-76	1.068490184	0.422	0.076	1.21E-71	19 DCLK1
2.78E-31	1.067221407	0.794	0.43	8.92E-27	19 NLGN1
5.63E-22	1.05781286	0.643	0.389	1.81E-17	19 AL589935.1
7.46E-51	1.054641585	0.518	0.152	2.40E-46	19 MCTP2
5.47E-53	1.053437134	0.744	0.277	1.76E-48	19 PDZK1
5.13E-47	1.047668768	0.99	0.796	1.65E-42	19 MAML2
3.62E-38	1.042995599	0.508	0.186	1.16E-33	19 NEDD9
7.78E-39	1.039415607	0.894	0.586	2.50E-34	19 TRHDE
8.50E-45	1.036758565	0.417	0.113	2.73E-40	19 GABRA2
6.02E-41	1.032979784	0.603	0.247	1.93E-36	19 AIF1L
1.15E-165	1.032675599	0.397	0.033	3.69E-161	19 H2BC5
2.00E-33	1.023404412	0.764	0.417	6.44E-29	19 LHFPL3
6.23E-109	1.022136087	0.261	0.022	2.00E-104	19 EDIL3-DT
1.55E-35	1.020451091	0.523	0.202	4.99E-31	19 CRMP1
1.86E-44	1.019621275	0.693	0.277	5.97E-40	19 CTTNBP2
1.01E-43	1.017130306	0.568	0.195	3.26E-39	19 SDC2
1.02E-34	1.008953319	0.945	0.716	3.26E-30	19 ADAMTS9-AS2
8.65E-38	1.006157928	0.814	0.433	2.78E-33	19 OSBPL10
5.55E-218	1.003825767	0.342	0.018	1.78E-213	19 H1-2
3.17E-24	0.999888153	0.704	0.449	1.02E-19	19 MTMR10
1.81E-43	0.993291599	0.583	0.207	5.81E-39	19 PRKCQ
9.34E-27	0.989138794	0.467	0.187	3.00E-22	19 ABI3BP
4.26E-42	0.986440145	0.487	0.156	1.37E-37	19 AC004540.1
9.49E-42	0.983225755	0.869	0.508	3.05E-37	19 PIK3CB
1.47E-09	0.979054389	0.482	0.323	4.72E-05	19 NRP1
4.73E-153	0.977207334	0.302	0.021	1.52E-148	19 ATOH8
1.31E-35	0.967651073	0.573	0.219	4.22E-31	19 SLCO3A1
3.43E-37	0.963845779	0.422	0.126	1.10E-32	19 SIM2
8.99E-229	0.957710216	0.417	0.027	2.89E-224	19 CRNDE
1.24E-40	0.95285485	1	0.876	3.98E-36	19 AL136164.2
8.17E-38	0.949926887	0.412	0.119	2.62E-33	19 ALPK2

9.00E-30	0.942072264	0.839	0.517	2.89E-25	19 NFIA
1.86E-31	0.940010803	0.462	0.17	5.96E-27	19 LRRIQ1
2.54E-67	0.938320803	0.392	0.072	8.15E-63	19 TNFRSF11B
9.82E-24	0.936386317	0.417	0.162	3.15E-19	19 UNC13C
3.50E-36	0.934279792	0.603	0.252	1.12E-31	19 AC018730.1
1.29E-33	0.932047118	0.327	0.088	4.14E-29	19 EYA1
2.13E-44	0.92646829	0.523	0.171	6.85E-40	19 LHFPL3-AS2
3.69E-45	0.923817955	0.648	0.25	1.18E-40	19 AC006994.1
7.36E-51	0.914025759	0.467	0.122	2.36E-46	19 TNFAIP8
1.59E-58	0.913595764	0.518	0.137	5.10E-54	19 AC025171.1
1.35E-54	0.912349196	0.457	0.113	4.32E-50	19 SMAD6
7.69E-125	0.911937782	0.357	0.035	2.47E-120	19 H1-4
1.68E-22	0.908734771	0.769	0.49	5.40E-18	19 RALGPS2
1.62E-33	0.908254437	0.864	0.585	5.20E-29	19 WWC1
6.30E-43	0.896912842	0.392	0.103	2.02E-38	19 EHF
0	0.89136971	0.276	0.004	0	19 H1-3
1.26E-52	0.891121681	0.276	0.047	4.03E-48	19 COLEC10
6.59E-36	0.890803469	0.824	0.423	2.12E-31	19 STK32B
5.36E-21	0.890115213	0.327	0.116	1.72E-16	19 LINC01435
7.22E-45	0.88526141	0.422	0.115	2.32E-40	19 ASRGL1
6.38E-41	0.883181975	0.849	0.463	2.05E-36	19 KIF12
5.91E-20	0.873336913	0.588	0.34	1.90E-15	19 SPTLC2
1.66E-28	0.872070713	0.698	0.388	5.33E-24	19 UBAP2
3.43E-38	0.86543741	0.477	0.161	1.10E-33	19 CFAP43
4.70E-65	0.86358456	0.276	0.039	1.51E-60	19 ID3
4.69E-21	0.86114856	0.598	0.321	1.51E-16	19 FGFR2
1.11E-42	0.859279245	0.407	0.11	3.55E-38	19 SPNS2
4.37E-120	0.857596705	0.296	0.025	1.40E-115	19 ID4
1.16E-31	0.850596428	0.704	0.338	3.73E-27	19 FREM2
2.07E-39	0.848300034	0.553	0.183	6.64E-35	19 FBXL7
8.36E-41	0.848014325	0.739	0.316	2.68E-36	19 ABCC4
4.15E-29	0.84561877	0.563	0.246	1.33E-24	19 ADAMTS9-AS1
5.54E-121	0.845506801	0.327	0.03	1.78E-116	19 BOC
1.90E-26	0.844068988	0.437	0.172	6.12E-22	19 AP1S3
6.70E-88	0.843536559	0.281	0.031	2.15E-83	19 ODC1
3.46E-55	0.843089367	0.281	0.046	1.11E-50	19 AC007906.2
2.83E-38	0.842953928	0.518	0.184	9.09E-34	19 AC011447.3
1.07E-28	0.841235054	0.905	0.714	3.43E-24	19 CDKAL1
2.88E-26	0.840513149	0.94	0.74	9.24E-22	19 NFAT5
1.62E-19	0.840221078	0.819	0.606	5.20E-15	19 TBL1X
1.81E-28	0.83946283	0.322	0.095	5.82E-24	19 UGT2A3
1.01E-35	0.832671239	0.714	0.331	3.24E-31	19 ANKRD44
4.51E-43	0.832109609	0.995	0.838	1.45E-38	19 PARD3
7.49E-21	0.829482694	0.744	0.465	2.40E-16	19 RFX3-AS1
2.12E-18	0.828501227	0.648	0.395	6.80E-14	19 DNMT3
5.22E-27	0.826974211	0.874	0.63	1.68E-22	19 FTO
9.58E-32	0.818268308	0.688	0.344	3.08E-27	19 SEMA4D
4.37E-21	0.813005218	0.678	0.405	1.40E-16	19 LINC00271
2.71E-28	0.812133596	0.91	0.561	8.70E-24	19 P3H2
1.30E-57	0.808093928	0.286	0.046	4.19E-53	19 AC111000.4
7.55E-30	0.802890545	0.518	0.214	2.42E-25	19 HYDIN2

3.00E-17	0.800214719	0.709	0.512	9.64E-13	19 CFDP1
4.33E-28	0.79817536	0.668	0.356	1.39E-23	19 PRKCI
1.36E-25	0.794621383	0.709	0.41	4.38E-21	19 GPCPD1
1.04E-30	0.791288394	0.377	0.117	3.33E-26	19 ITGB3
4.03E-29	0.790382236	0.543	0.233	1.30E-24	19 TBC1D16
1.08E-22	0.789560753	0.538	0.254	3.46E-18	19 DCDC1
4.89E-32	0.788853605	0.513	0.202	1.57E-27	19 IFT122
4.51E-24	0.786150476	0.729	0.427	1.45E-19	19 SKAP2
4.78E-48	0.783850877	0.377	0.09	1.53E-43	19 PARP4
2.52E-32	0.781845311	0.307	0.084	8.10E-28	19 SESN3
3.01E-41	0.777836912	0.392	0.106	9.67E-37	19 JHY
4.94E-23	0.777801464	0.467	0.202	1.59E-18	19 AQP4-AS1
7.51E-137	0.776424962	0.307	0.024	2.41E-132	19 H2BC21
4.43E-15	0.774746483	0.362	0.167	1.42E-10	19 U91319.1
6.45E-23	0.771407911	0.508	0.236	2.07E-18	19 DNAI4
3.48E-24	0.770484532	0.749	0.44	1.12E-19	19 SASH1
5.61E-16	0.768717174	0.347	0.154	1.80E-11	19 NUAK2
3.00E-26	0.767042711	0.588	0.297	9.64E-22	19 BIVM
1.28E-23	0.765063602	0.402	0.157	4.11E-19	19 LPCAT2
5.06E-27	0.764144272	0.447	0.167	1.63E-22	19 DENND2A
1.55E-19	0.762434677	0.709	0.475	4.99E-15	19 SLC35F5
5.78E-58	0.761747994	0.296	0.048	1.86E-53	19 HRH1
1.03E-117	0.76147356	0.276	0.023	3.32E-113	19 ATP13A4
2.92E-20	0.760666142	0.814	0.567	9.37E-16	19 LARGE1
6.06E-24	0.757519295	0.839	0.599	1.95E-19	19 TUT4
1.67E-20	0.756610511	0.734	0.443	5.37E-16	19 SUGCT
4.12E-52	0.755849595	0.472	0.127	1.32E-47	19 OR2A20P
9.03E-24	0.755403263	0.879	0.606	2.90E-19	19 CCDC198
3.98E-20	0.754306947	0.538	0.265	1.28E-15	19 SCD5
4.99E-25	0.753986644	0.698	0.378	1.60E-20	19 FRMD4B
1.30E-18	0.753848912	0.693	0.453	4.18E-14	19 FOCAD
3.26E-25	0.752150882	0.839	0.533	1.05E-20	19 PLCXD2
1.71E-116	0.751372594	0.266	0.021	5.50E-112	19 MRC2
4.45E-17	0.743993901	0.698	0.494	1.43E-12	19 ATXN10
3.30E-32	0.742764937	0.332	0.089	1.06E-27	19 MIR31HG
7.88E-73	0.741637942	0.266	0.033	2.53E-68	19 H2BC18
3.20E-25	0.74110727	0.965	0.804	1.03E-20	19 EXOC4
7.53E-34	0.73964455	0.367	0.108	2.42E-29	19 UBTD1
9.57E-32	0.738601887	0.492	0.19	3.07E-27	19 TMEM38B
7.64E-24	0.737806	0.613	0.318	2.45E-19	19 MGAT4A
1.30E-44	0.736932883	0.271	0.052	4.18E-40	19 AC136759.1
6.69E-34	0.735329538	0.417	0.132	2.15E-29	19 FLVCR2
3.38E-18	0.735030698	0.854	0.627	1.09E-13	19 LINC02532
4.84E-17	0.734201246	0.693	0.456	1.55E-12	19 BMPR1A
4.60E-20	0.727256307	0.678	0.428	1.48E-15	19 TVP23C-CDRT4
3.10E-16	0.721411809	0.296	0.117	9.95E-12	19 AL355499.1
8.99E-27	0.718682895	0.894	0.637	2.89E-22	19 TNS3
1.47E-36	0.71802125	0.387	0.114	4.72E-32	19 CLDN18
4.85E-12	0.717543175	0.281	0.129	1.56E-07	19 AC007161.3
3.65E-24	0.716611938	0.583	0.291	1.17E-19	19 AHNAK
1.04E-23	0.71621199	0.824	0.504	3.34E-19	19 DSCAML1

2.17E-18	0.716135243	0.809	0.573	6.96E-14	19 MTSS1
1.36E-39	0.716034536	0.251	0.05	4.38E-35	19 PCAT14
3.29E-37	0.715219949	0.407	0.123	1.06E-32	19 NIPAL3
2.50E-107	0.712841368	0.332	0.035	8.03E-103	19 FGFBP2
1.31E-21	0.704639229	0.834	0.596	4.19E-17	19 WWC2
1.22E-16	0.70117885	0.568	0.332	3.91E-12	19 AC046134.2
3.37E-21	0.700668323	0.568	0.297	1.08E-16	19 WRN
4.05E-06	0.700146614	0.337	0.215	0.129971355	19 RMST
6.67E-32	0.700038668	0.412	0.139	2.14E-27	19 ACADL
3.03E-37	0.699815705	0.412	0.125	9.75E-33	19 DZIP1L
1.19E-19	0.69599053	0.256	0.082	3.82E-15	19 COL19A1
2.05E-20	0.692968489	0.548	0.268	6.59E-16	19 PANTR1
6.25E-17	0.692873922	0.427	0.206	2.01E-12	19 LEKR1
2.23E-20	0.688285141	0.618	0.32	7.17E-16	19 FAM110B
4.56E-19	0.687405709	0.402	0.181	1.46E-14	19 MTHFD1
2.25E-19	0.686584264	0.749	0.516	7.24E-15	19 XPO1
5.78E-48	0.685258302	0.291	0.054	1.86E-43	19 AKR1C1
2.95E-26	0.68264477	0.427	0.158	9.48E-22	19 FAT4
1.17E-12	0.681951514	0.417	0.231	3.75E-08	19 CNIH3
2.65E-22	0.681467812	0.477	0.214	8.51E-18	19 HOXA3
3.24E-19	0.680115468	0.879	0.675	1.04E-14	19 PLEKHA7
1.83E-23	0.678808444	0.673	0.353	5.87E-19	19 SLC1A1
1.59E-14	0.678561576	0.578	0.351	5.10E-10	19 AC092944.1
7.75E-114	0.678063168	0.256	0.02	2.49E-109	19 SLC4A11
2.12E-15	0.672898761	0.729	0.527	6.82E-11	19 LIFR
5.79E-34	0.671294995	0.302	0.076	1.86E-29	19 SLC39A8
8.66E-30	0.670960133	0.628	0.261	2.78E-25	19 ARHGAP10
5.44E-22	0.670635577	0.392	0.154	1.75E-17	19 SLCO4C1
6.80E-23	0.670140656	0.839	0.554	2.18E-18	19 ARHGAP29
4.27E-12	0.669561268	0.332	0.162	1.37E-07	19 MCTP1
8.29E-27	0.667967823	0.397	0.138	2.66E-22	19 GUCY1A1
3.54E-18	0.665682167	0.623	0.375	1.14E-13	19 CU633904.1
2.00E-11	0.664911261	0.372	0.197	6.42E-07	19 PRANCR
1.08E-17	0.664106186	0.91	0.73	3.46E-13	19 SHANK2
1.44E-15	0.660740248	0.442	0.221	4.63E-11	19 GNAI1
2.88E-30	0.655201607	0.452	0.162	9.26E-26	19 PDZK1P1
3.38E-25	0.654252496	0.663	0.345	1.09E-20	19 ITGA1
4.18E-19	0.653764972	0.618	0.351	1.34E-14	19 GABPB1-AS1
6.39E-38	0.653562034	1	0.967	2.05E-33	19 ZBTB20
1.28E-18	0.653233772	0.673	0.425	4.12E-14	19 VPS41
1.82E-22	0.65274607	0.648	0.361	5.84E-18	19 LINC01145
2.93E-28	0.652423513	0.432	0.163	9.40E-24	19 PLEKHH1
2.36E-14	0.651872552	0.327	0.146	7.59E-10	19 DNAJC6
1.91E-16	0.64951034	0.749	0.517	6.14E-12	19 KIAA1328
8.33E-14	0.649199723	0.362	0.18	2.68E-09	19 LINC02062
6.22E-128	0.648103058	0.251	0.017	2.00E-123	19 LECT2
1.74E-13	0.643639926	0.487	0.289	5.57E-09	19 USP54
7.91E-32	0.641008428	0.377	0.113	2.54E-27	19 ADGRG6
1.84E-16	0.640654468	0.633	0.395	5.91E-12	19 PPP3CC
7.74E-27	0.640273405	0.417	0.153	2.49E-22	19 CFAP94
4.12E-20	0.639937093	0.638	0.364	1.32E-15	19 SYTL2

7.21E-16	0.638109299	0.653	0.417	2.32E-11	19 RNF180
7.24E-13	0.637241819	0.739	0.528	2.32E-08	19 PTPN14
5.19E-16	0.637210563	0.678	0.441	1.67E-11	19 SEPTIN11
3.40E-14	0.636295513	0.462	0.268	1.09E-09	19 LEPROT
1.95E-15	0.636127333	0.688	0.455	6.25E-11	19 ARHGEF10L
4.16E-10	0.635167682	0.342	0.182	1.34E-05	19 HLF
2.73E-12	0.634807742	0.553	0.344	8.76E-08	19 GLCCII
6.71E-22	0.634558183	0.518	0.245	2.16E-17	19 AC012531.3
5.10E-35	0.632202287	0.342	0.092	1.64E-30	19 EGOT
4.84E-18	0.632092095	0.437	0.207	1.56E-13	19 PECR
4.89E-13	0.630276671	0.648	0.425	1.57E-08	19 ENTPD1-AS1
6.34E-17	0.627412397	0.598	0.347	2.04E-12	19 MAP3K21
1.46E-14	0.626686637	0.457	0.241	4.69E-10	19 AGBL3
4.39E-35	0.626402277	0.307	0.075	1.41E-30	19 DPP4
1.69E-22	0.626060972	0.538	0.262	5.42E-18	19 ENPP3
1.40E-23	0.622286756	0.352	0.128	4.50E-19	19 STX2
1.09E-19	0.621650529	0.688	0.404	3.51E-15	19 CAMK2D
3.12E-21	0.621382799	0.538	0.257	1.00E-16	19 HNMT
1.84E-15	0.621083757	0.673	0.424	5.90E-11	19 BICD1
1.53E-27	0.619758707	0.422	0.158	4.92E-23	19 DDX31
0.00048751	0.618639358	0.613	0.511	1	19 AUTS2
6.14E-17	0.616768976	0.266	0.096	1.97E-12	19 MIR3681HG
1.24E-20	0.612967011	0.387	0.156	3.98E-16	19 FAM149A
3.43E-14	0.61114545	0.588	0.398	1.10E-09	19 PTAR1
6.62E-25	0.611032992	0.367	0.132	2.13E-20	19 SEPSECS
3.45E-32	0.609355804	0.377	0.117	1.11E-27	19 LINC01948
1.03E-41	0.608356699	0.714	0.271	3.30E-37	19 SNTB1
2.91E-14	0.60815502	0.482	0.266	9.34E-10	19 CCDC18
1.20E-15	0.607120561	0.492	0.266	3.85E-11	19 LINC02615
1.98E-11	0.606190641	0.648	0.436	6.35E-07	19 KCNJ3
4.38E-13	0.606106738	0.437	0.249	1.41E-08	19 TSEN2
4.65E-13	0.606032288	0.563	0.355	1.49E-08	19 STON2
2.68E-30	0.605793747	0.779	0.379	8.62E-26	19 FRY
2.42E-11	0.605681371	0.392	0.214	7.78E-07	19 C12orf40
3.61E-12	0.600522792	0.472	0.292	1.16E-07	19 KATNIP
1.33E-19	0.598104871	0.724	0.415	4.26E-15	19 FAM171A1
1.21E-11	0.597000291	0.442	0.256	3.87E-07	19 B4GALT1
1.32E-18	0.594709309	0.955	0.684	4.23E-14	19 KAZN
1.69E-21	0.593818403	0.769	0.5	5.43E-17	19 VPS13C
6.66E-09	0.593661445	0.407	0.251	0.000213773	19 ACTG1
5.33E-17	0.592498858	0.337	0.143	1.71E-12	19 TMEM267
4.32E-06	0.590901032	0.548	0.414	0.138703219	19 AL355499.2
3.72E-15	0.586550295	0.628	0.403	1.20E-10	19 BICRAL
1.43E-11	0.584688671	0.709	0.527	4.60E-07	19 FANCC
5.06E-17	0.583889976	0.543	0.295	1.63E-12	19 FUT8
1.60E-14	0.583628755	0.402	0.201	5.14E-10	19 PGAM1P5
1.25E-20	0.583541421	0.874	0.633	4.03E-16	19 PBX1
9.10E-17	0.58341425	0.688	0.446	2.92E-12	19 PREPL
8.77E-13	0.581560159	0.266	0.113	2.82E-08	19 TBXAS1
1.53E-12	0.581293399	0.457	0.264	4.92E-08	19 IMPA2
1.70E-18	0.580078983	0.628	0.356	5.47E-14	19 PPP1R13B

1.38E-14	0.579708432	0.563	0.34	4.44E-10	19 ASPH
7.09E-18	0.579074135	0.447	0.215	2.28E-13	19 BCAM
2.71E-19	0.578631947	0.487	0.241	8.69E-15	19 ADSS2
6.01E-62	0.578510027	0.271	0.039	1.93E-57	19 SIRPA
8.63E-19	0.575792519	0.457	0.218	2.77E-14	19 PLAGL1
8.61E-23	0.573035887	0.337	0.119	2.77E-18	19 SLC12A8
7.97E-34	0.568968611	0.251	0.055	2.56E-29	19 CYP1B1
3.94E-12	0.567967232	0.693	0.498	1.26E-07	19 CCDC18-AS1
4.24E-71	0.566254287	0.251	0.03	1.36E-66	19 CERCAM
6.20E-13	0.564572184	0.422	0.222	1.99E-08	19 SPAG17
6.44E-13	0.563695542	0.709	0.484	2.07E-08	19 FMNL2
6.06E-18	0.562740735	0.357	0.153	1.95E-13	19 OGFRL1
6.42E-30	0.561795382	0.312	0.089	2.06E-25	19 FAM47E
1.77E-17	0.561332474	0.608	0.353	5.68E-13	19 ATP10D
6.09E-17	0.560110779	0.482	0.236	1.96E-12	19 SLC2A13
1.22E-15	0.560032194	0.513	0.269	3.92E-11	19 AC008554.1
1.30E-14	0.559497117	0.563	0.344	4.18E-10	19 AL592183.1
1.63E-19	0.558699229	0.593	0.323	5.24E-15	19 STK38
4.67E-15	0.557966694	0.683	0.466	1.50E-10	19 GUSBP2
4.25E-11	0.556376657	0.789	0.615	1.36E-06	19 FER
1.31E-08	0.556359408	0.533	0.349	0.000420586	19 CADM1
2.73E-13	0.555885788	0.327	0.148	8.77E-09	19 TNFSF10
0.0073002	0.55543552	0.357	0.297	1	19 GALNT10
3.48E-10	0.552345053	0.683	0.531	1.12E-05	19 DHRSX
1.00E-18	0.552256864	0.377	0.163	3.21E-14	19 AC011043.1
1.23E-13	0.551444894	0.462	0.255	3.95E-09	19 YWHAEP7
3.45E-12	0.550731933	0.352	0.18	1.11E-07	19 AC104109.4
3.17E-13	0.548013125	0.382	0.189	1.02E-08	19 MPP6
1.20E-13	0.543095618	0.397	0.204	3.87E-09	19 RAVR2
1.65E-12	0.542683677	0.558	0.352	5.30E-08	19 IFT74
1.17E-15	0.542566055	0.513	0.286	3.75E-11	19 MYEF2
1.17E-15	0.541739758	0.844	0.633	3.74E-11	19 ARHGEF28
1.49E-09	0.541477348	0.462	0.296	4.80E-05	19 YPEL2
7.94E-09	0.541453324	0.779	0.631	0.000255107	19 CAMKMT
5.61E-13	0.540081133	0.558	0.355	1.80E-08	19 EFCAB6
2.21E-10	0.539032867	0.678	0.503	7.11E-06	19 PHF21A
1.90E-14	0.538865121	0.276	0.111	6.09E-10	19 UFL1-AS1
1.97E-16	0.537655173	0.794	0.528	6.31E-12	19 FRMD3
8.18E-15	0.535673503	0.734	0.529	2.63E-10	19 LSM14A
2.34E-17	0.535588774	0.271	0.097	7.53E-13	19 MAP3K20
5.67E-12	0.535253642	0.422	0.24	1.82E-07	19 ENO4
3.30E-11	0.534210983	0.704	0.497	1.06E-06	19 MLLT3
1.16E-62	0.531609047	1	1	3.72E-58	19 LINC00486
2.91E-10	0.528008939	0.402	0.23	9.35E-06	19 MDFIC
1.18E-48	0.523772481	0.281	0.05	3.79E-44	19 OR2A9P
6.93E-10	0.523247064	0.618	0.435	2.22E-05	19 AL078459.1
2.62E-15	0.52211796	0.869	0.679	8.41E-11	19 ARMH4
7.71E-15	0.519848926	0.397	0.194	2.48E-10	19 EPCAM-DT
5.87E-14	0.519636541	0.417	0.212	1.89E-09	19 CDS1
3.73E-10	0.518888397	0.613	0.463	1.20E-05	19 YTHDC1
7.70E-13	0.516306543	0.437	0.251	2.47E-08	19 AC244669.1

1.10E-18	0.5157885	0.754	0.472	3.54E-14	19 EPB41L1
3.19E-13	0.515655208	0.548	0.34	1.02E-08	19 LINC00869
1.14E-10	0.515203255	0.568	0.389	3.65E-06	19 STRN
1.68E-09	0.51453587	0.417	0.259	5.39E-05	19 GK5
1.93E-09	0.513931455	0.548	0.365	6.19E-05	19 PPARG
2.05E-19	0.513699741	0.322	0.121	6.57E-15	19 TGFA
6.31E-11	0.51227275	0.362	0.194	2.03E-06	19 MFAP3
6.25E-12	0.511377144	0.467	0.282	2.01E-07	19 NAPEPLD
2.50E-13	0.511059316	0.709	0.496	8.02E-09	19 RCOR3
7.41E-13	0.509548665	0.583	0.347	2.38E-08	19 DSE
9.98E-12	0.509324955	0.583	0.388	3.21E-07	19 MINDY2
4.84E-07	0.509176236	0.623	0.479	0.01553758	19 SNRK
1.02E-30	0.508356048	0.442	0.146	3.27E-26	19 KLHL29
3.39E-11	0.508271003	0.799	0.651	1.09E-06	19 PTPRK
3.39E-15	0.508070364	0.824	0.598	1.09E-10	19 KTN1
5.58E-13	0.507803977	0.497	0.291	1.79E-08	19 ADHFE1
1.68E-12	0.507796994	0.819	0.582	5.40E-08	19 LAMB1
5.66E-07	0.507310134	0.442	0.318	0.018180242	19 AC001226.2
1.58E-12	0.506843732	0.678	0.479	5.09E-08	19 USP33
4.19E-11	0.506664447	0.467	0.282	1.35E-06	19 ZNF611
1.20E-13	0.50567864	0.432	0.231	3.86E-09	19 ABHD12
3.97E-08	0.505237577	0.432	0.283	0.001274714	19 ZC3H6
2.88E-13	0.504768117	0.266	0.11	9.24E-09	19 AC090227.2
1.22E-11	0.504409297	0.925	0.814	3.93E-07	19 MAPK10
1.51E-15	0.50333209	0.638	0.41	4.85E-11	19 NBP26
7.51E-15	0.502509687	0.749	0.523	2.41E-10	19 ZNF83
1.04E-10	0.502394603	0.729	0.563	3.35E-06	19 ZZZ3
4.86E-20	0.501809178	0.975	0.813	1.56E-15	19 PARD3B
1.22E-17	0.500217954	0.392	0.174	3.91E-13	19 ABO
2.26E-05	0.500194777	0.382	0.265	0.726336371	19 LINC01266
2.47E-24	0.499804864	0.402	0.144	7.94E-20	19 FGFR3
2.73E-13	0.499037028	0.638	0.417	8.77E-09	19 DNAH7
5.74E-13	0.498628427	0.402	0.216	1.84E-08	19 WDR35
4.25E-11	0.497352175	0.538	0.342	1.36E-06	19 FBXL13
1.71E-13	0.495720157	0.452	0.238	5.50E-09	19 AC068234.1
8.75E-36	0.495620768	0.276	0.061	2.81E-31	19 PIK3C2B
1.64E-14	0.494766972	0.447	0.228	5.27E-10	19 RNF217
3.21E-10	0.491056349	0.417	0.239	1.03E-05	19 SERINC5
1.03E-09	0.490653129	0.518	0.338	3.32E-05	19 KIF21A
1.05E-38	0.489882335	0.307	0.07	3.36E-34	19 OR2A1
1.25E-16	0.489465255	0.256	0.091	4.02E-12	19 IER2
7.10E-21	0.489185897	0.719	0.422	2.28E-16	19 EPS8L2
8.78E-13	0.489068223	0.583	0.357	2.82E-08	19 NRIP1
5.48E-12	0.488575303	0.704	0.52	1.76E-07	19 ZNF254
7.14E-13	0.488572263	0.397	0.204	2.29E-08	19 PLCH1
1.37E-19	0.487653358	0.462	0.199	4.40E-15	19 ADGRF1
1.83E-10	0.486448345	0.447	0.272	5.87E-06	19 CLTA
1.55E-06	0.485050459	0.261	0.148	0.04980828	19 HBG2
1.39E-13	0.484796845	0.251	0.097	4.46E-09	19 GLI3
9.87E-15	0.482132083	0.528	0.292	3.17E-10	19 MALT1
9.42E-07	0.481787133	0.402	0.277	0.030261487	19 VKORC1L1

1.10E-20	0.481510416	0.291	0.098	3.54E-16	19 PPL
6.66E-13	0.479583582	0.523	0.314	2.14E-08	19 MOK
9.08E-14	0.477409877	0.598	0.379	2.92E-09	19 ATP13A3
7.52E-14	0.477089188	0.583	0.363	2.42E-09	19 NOTCH2
1.08E-07	0.476913305	0.739	0.606	0.003479089	19 ZNF148
2.63E-09	0.476793513	0.698	0.547	8.46E-05	19 AC093752.1
1.02E-09	0.47606803	0.382	0.212	3.29E-05	19 TLE1
3.03E-14	0.473777623	0.915	0.692	9.73E-10	19 GNAQ
2.83E-06	0.472182064	0.447	0.32	0.091007439	19 GTDC1
1.19E-13	0.471843593	0.367	0.184	3.82E-09	19 HMGN1
2.88E-13	0.471096337	0.427	0.222	9.24E-09	19 AL390879.1
3.81E-08	0.471012319	0.538	0.385	0.001224306	19 ZNF33B
4.49E-15	0.470675599	0.482	0.251	1.44E-10	19 NSUN7
6.29E-07	0.470342346	0.467	0.31	0.020210512	19 UGT8
7.52E-15	0.47028791	0.302	0.126	2.41E-10	19 PHLDB1
0.00048846	0.470151601	0.291	0.204	1	19 C8orf37-AS1
3.03E-10	0.469613442	0.668	0.491	9.72E-06	19 ATF7IP
8.42E-10	0.469354639	0.417	0.254	2.70E-05	19 FRA10AC1
6.37E-11	0.46927124	0.482	0.299	2.05E-06	19 ANKAR
4.10E-07	0.468085574	0.487	0.344	0.013158326	19 AC053527.2
3.09E-13	0.46736757	0.322	0.139	9.91E-09	19 NTRK2
1.47E-07	0.465345145	0.442	0.29	0.004710004	19 NMNAT3
1.12E-11	0.465246909	0.447	0.254	3.60E-07	19 AC104389.5
6.95E-08	0.465021202	0.603	0.447	0.002233192	19 ATG10
5.23E-08	0.462547571	0.256	0.131	0.001678495	19 AC107021.1
4.71E-14	0.462163104	0.533	0.317	1.51E-09	19 RAB30-DT
9.07E-14	0.461383055	0.518	0.296	2.91E-09	19 INTU
3.42E-08	0.46071806	0.447	0.29	0.001099583	19 DSTN
2.74E-10	0.460601075	0.543	0.37	8.79E-06	19 ZBTB44
6.34E-12	0.459851079	0.523	0.318	2.04E-07	19 DZIP3
4.62E-16	0.45904868	0.286	0.111	1.48E-11	19 RPGRIP1L
8.70E-12	0.458608975	0.613	0.413	2.79E-07	19 MPRIP
2.43E-19	0.458054055	0.281	0.096	7.80E-15	19 PROSER2
2.68E-08	0.457516932	0.563	0.402	0.000861156	19 LARP1B
1.14E-23	0.457067122	0.256	0.07	3.67E-19	19 LINC01781
6.92E-13	0.455852282	0.317	0.143	2.22E-08	19 ANXA3
2.28E-12	0.454541206	0.271	0.12	7.31E-08	19 SMAD7
3.18E-09	0.454086469	0.764	0.563	0.000102143	19 MAP7
5.69E-13	0.453135897	0.412	0.217	1.83E-08	19 LRRC6
2.55E-11	0.452209493	0.663	0.462	8.19E-07	19 ATM
1.51E-09	0.451037849	0.347	0.194	4.85E-05	19 KIF27
4.16E-05	0.450994019	0.427	0.304	1	19 LINC02694
6.98E-11	0.450244743	0.352	0.182	2.24E-06	19 SPATA17
2.04E-14	0.449831746	0.387	0.182	6.54E-10	19 IQCA1
8.15E-05	0.449826291	0.412	0.292	1	19 AL050309.1
8.65E-12	0.449519153	0.623	0.415	2.78E-07	19 NEK11
2.69E-12	0.448207344	0.739	0.495	8.65E-08	19 ZNRF3
1.76E-10	0.448052906	0.668	0.489	5.65E-06	19 MICAL3
3.37E-08	0.446903371	0.638	0.473	0.001083857	19 COBL
1.31E-11	0.446593145	0.633	0.412	4.19E-07	19 LINC01138
4.97E-11	0.446326127	0.452	0.268	1.60E-06	19 SLC22A4

1.23E-17	0.445909866	0.302	0.113	3.96E-13	19 DDX60L
6.05E-19	0.445291258	0.337	0.126	1.94E-14	19 USH1C
3.09E-08	0.443294676	0.598	0.436	0.000993061	19 SRGAP3
3.30E-07	0.443214836	0.422	0.28	0.010606743	19 TERF2IP
7.02E-09	0.44319878	0.296	0.154	0.000225585	19 JUN
2.56E-10	0.442956393	0.603	0.423	8.21E-06	19 ITM2B
1.13E-13	0.441663826	0.739	0.509	3.63E-09	19 KIFC3
1.47E-21	0.441217916	0.271	0.085	4.72E-17	19 WDFY3-AS2
6.84E-09	0.440858699	0.714	0.546	0.000219642	19 CBFA2T2
1.84E-12	0.440483629	0.492	0.289	5.92E-08	19 FP236241.1
1.93E-10	0.439587315	0.683	0.522	6.21E-06	19 RASAL2
2.47E-09	0.439376602	0.266	0.13	7.93E-05	19 AC109583.1
5.57E-10	0.438925992	0.779	0.621	1.79E-05	19 TBL1XR1
0.00037279	0.438826012	0.412	0.318	1	19 ZFP36L1
2.92E-09	0.438516126	0.578	0.398	9.38E-05	19 PITPNC1
7.63E-12	0.438481779	0.447	0.253	2.45E-07	19 FBXO17
7.55E-11	0.43801363	0.276	0.128	2.42E-06	19 CEP126
2.81E-06	0.437325975	0.663	0.532	0.090137116	19 MAML3
1.43E-05	0.436345996	0.302	0.191	0.458294712	19 STAT1
1.85E-09	0.4362869	0.312	0.162	5.95E-05	19 ALDH1A1
3.62E-09	0.436197238	0.548	0.37	0.00011638	19 ZCCHC14
1.87E-07	0.436052009	0.357	0.22	0.006002572	19 CEP63
1.63E-11	0.435884404	0.417	0.232	5.22E-07	19 RHPN2
5.68E-13	0.435485084	0.764	0.522	1.83E-08	19 HNF1A-AS1
1.46E-05	0.434964956	0.503	0.364	0.469202682	19 LMCD1-AS1
1.68E-15	0.434675634	0.533	0.284	5.40E-11	19 PLEKHA2
5.50E-11	0.434426815	0.754	0.559	1.77E-06	19 PHC3
7.24E-07	0.433417892	0.688	0.566	0.023255583	19 METTL15
2.96E-07	0.432522156	0.387	0.242	0.009519356	19 ADGRV1
1.34E-14	0.432352205	0.462	0.237	4.32E-10	19 RGS12
7.02E-20	0.431470368	0.94	0.733	2.26E-15	19 LINGO1
5.07E-13	0.431088994	0.437	0.231	1.63E-08	19 PLOD2
2.13E-09	0.431059438	0.608	0.436	6.84E-05	19 PRKRIP1
1.41E-17	0.430592604	0.427	0.188	4.53E-13	19 HUNK
2.63E-10	0.430537711	0.362	0.191	8.44E-06	19 CCDC122
1.50E-13	0.430459655	0.387	0.181	4.82E-09	19 TENM3
2.30E-08	0.430146811	0.613	0.447	0.000739014	19 FAT1
1.13E-06	0.430064664	0.819	0.696	0.036259427	19 GUSBP1
5.03E-12	0.429256973	0.573	0.359	1.62E-07	19 TEX9
4.17E-06	0.428849717	0.387	0.263	0.133880355	19 DOCK3
1.16E-09	0.428549163	0.422	0.254	3.72E-05	19 SDHAP3
7.17E-09	0.42818533	0.442	0.255	0.000230294	19 GLYAT
1.38E-10	0.428023047	0.573	0.392	4.44E-06	19 PARD6B
1.67E-09	0.426770454	0.769	0.615	5.37E-05	19 KDM6A
6.40E-10	0.426736043	0.734	0.553	2.06E-05	19 THADA
3.29E-10	0.426166819	0.884	0.731	1.06E-05	19 STAG1
3.80E-06	0.425467766	0.583	0.434	0.121908569	19 KIAA0825
4.84E-09	0.424207026	0.412	0.246	0.000155474	19 NPAS2
2.05E-08	0.424012874	0.377	0.223	0.000658183	19 DNAH6
5.00E-07	0.422886551	0.523	0.373	0.016061954	19 IQCJ-SCHIP1
2.09E-20	0.422787359	0.377	0.144	6.71E-16	19 DNMI

4.68E-13	0.42088211	0.296	0.128	1.50E-08	19 RNF144A
1.04E-11	0.420179747	0.497	0.295	3.33E-07	19 RBMS2
4.57E-08	0.419908398	0.613	0.464	0.00146891	19 MAP4K5
2.10E-09	0.419818139	0.769	0.608	6.75E-05	19 WDPCP
3.07E-11	0.419778872	0.568	0.368	9.86E-07	19 ODF2L
3.62E-09	0.419126311	0.633	0.47	0.000116259	19 GALNT11
1.24E-14	0.418307517	0.322	0.141	4.00E-10	19 WHAMMP3
1.36E-08	0.418283861	0.352	0.205	0.000437592	19 LNX2
8.17E-09	0.417397387	0.789	0.62	0.000262357	19 DNAH14
2.71E-11	0.416300381	0.387	0.211	8.69E-07	19 EVC2
6.42E-06	0.416010608	0.487	0.368	0.206194429	19 NPTN
7.26E-07	0.415786097	0.578	0.442	0.023320467	19 UBE2E3
3.24E-09	0.415774976	0.533	0.359	0.000104139	19 MIGA1
5.57E-11	0.414996002	0.291	0.131	1.79E-06	19 LINC02027
9.58E-08	0.414886308	0.538	0.393	0.003077806	19 RNF149
3.76E-06	0.414545162	0.392	0.278	0.120751333	19 AAMDC
6.77E-16	0.414249924	0.291	0.115	2.17E-11	19 PLEKHF2
2.65E-06	0.413931066	0.271	0.157	0.085256044	19 IKZF2
8.70E-10	0.412938698	0.472	0.289	2.79E-05	19 CELSR1
1.82E-07	0.412155791	0.698	0.572	0.005839666	19 ARID2
0.00175424	0.412138747	0.332	0.255	1	19 SINHCAF
2.92E-14	0.41137664	0.302	0.127	9.38E-10	19 WAC-AS1
2.94E-11	0.410945071	0.382	0.201	9.43E-07	19 FANK1
3.61E-12	0.410541077	0.764	0.542	1.16E-07	19 PAX2
2.27E-09	0.410413156	0.623	0.46	7.29E-05	19 NBPFP19
4.56E-11	0.410229273	0.462	0.267	1.46E-06	19 CRYZL2P-SEC10
1.16E-15	0.409879614	0.935	0.739	3.72E-11	19 PICALM
1.21E-07	0.409277923	0.377	0.239	0.003884907	19 TMM67
0.00096101	0.408456909	0.392	0.298	1	19 ZNF385B
1.51E-06	0.408393664	0.352	0.222	0.048435138	19 SLC22A2
2.04E-06	0.408260379	0.402	0.26	0.065630721	19 CNTN3
5.81E-11	0.407712348	0.286	0.137	1.86E-06	19 ARHGEF5
1.31E-09	0.407139667	0.347	0.191	4.21E-05	19 CFAP91
6.73E-10	0.406739259	0.563	0.384	2.16E-05	19 AC073107.1
1.38E-09	0.406297489	0.683	0.481	4.43E-05	19 MYO1D
5.18E-08	0.40592648	0.276	0.15	0.001662294	19 AC012618.3
3.63E-05	0.404578562	0.296	0.188	1	19 LEPR
1.46E-07	0.403049733	0.342	0.206	0.004674272	19 CLHC1
5.52E-10	0.402831455	0.558	0.369	1.77E-05	19 FNBP1
2.55E-07	0.402108913	0.422	0.29	0.008200703	19 AC139769.1
9.90E-07	0.402071175	0.271	0.157	0.031781958	19 NR1D2
1.28E-11	0.401880954	0.256	0.111	4.10E-07	19 PTCH1
1.04E-08	0.399047875	0.844	0.707	0.000334536	19 SCAPER
1.16E-06	0.398200633	0.392	0.267	0.037181161	19 UBE2Q2P2
1.42E-09	0.39780614	0.447	0.281	4.56E-05	19 NIPSNAP2
7.32E-09	0.396546894	0.804	0.616	0.000235062	19 PRKD1
6.80E-07	0.39631137	0.382	0.245	0.021841026	19 JAZF1
7.90E-12	0.396253207	0.548	0.324	2.54E-07	19 ATP11A
1.88E-15	0.395825631	0.337	0.14	6.04E-11	19 CAMK1D
3.30E-10	0.395620264	0.487	0.294	1.06E-05	19 LAMC1
8.17E-05	0.395440332	0.482	0.372	1	19 TBC1D32

2.06E-09	0.395391378	0.352	0.196	6.61E-05	19 RMDN2
2.54E-07	0.39530408	0.462	0.31	0.008145711	19 RRAS2
6.98E-07	0.39528807	0.422	0.292	0.022425619	19 AC092574.2
1.70E-08	0.395130479	0.663	0.514	0.000545215	19 COA1
2.34E-12	0.394646037	0.312	0.146	7.51E-08	19 RHOXF1-AS1
1.30E-09	0.393748367	0.729	0.552	4.18E-05	19 RAB3IP
7.13E-08	0.393480035	0.362	0.208	0.002289475	19 ROR1
6.80E-09	0.393024277	0.482	0.306	0.00021836	19 ABCB1
2.59E-06	0.392305291	0.357	0.217	0.083324187	19 AL589669.1
1.15E-13	0.391670058	0.543	0.311	3.68E-09	19 ZNF69
2.47E-06	0.390578362	0.789	0.634	0.079299262	19 MTRNR2L12
6.48E-11	0.390018777	0.96	0.8	2.08E-06	19 SOX6
9.39E-05	0.389765339	0.417	0.316	1	19 FSIP2
3.08E-13	0.389498959	0.377	0.189	9.90E-09	19 PMS2P1
1.59E-05	0.388650733	0.412	0.301	0.509252152	19 PTPN9
8.60E-07	0.387363615	0.377	0.246	0.027624707	19 DDAH1
4.11E-05	0.386926043	0.417	0.304	1	19 TRAF3IP2-AS1
8.83E-06	0.38688173	0.402	0.269	0.283611653	19 EDA
1.87E-08	0.386372634	0.382	0.225	0.000599185	19 SUFU
4.85E-12	0.385813238	0.744	0.523	1.56E-07	19 ANKRD36
5.75E-09	0.385811712	0.337	0.19	0.000184782	19 NPHP1
9.15E-08	0.385374836	0.492	0.35	0.002938134	19 DDX6
3.36E-10	0.384330107	0.347	0.189	1.08E-05	19 GOLGA8M
4.96E-11	0.384318132	0.508	0.306	1.59E-06	19 CFAP69
9.57E-10	0.382773056	0.849	0.665	3.07E-05	19 PTPN13
1.74E-07	0.382312006	0.578	0.413	0.005602739	19 NEO1
3.53E-08	0.382131269	0.387	0.241	0.001133257	19 BBS4
1.28E-09	0.381773493	0.523	0.329	4.12E-05	19 NR2F2-AS1
2.05E-08	0.381492106	0.452	0.283	0.000657587	19 CSRNP3
1.41E-07	0.381049802	0.784	0.585	0.004526209	19 TRABD2B
3.59E-05	0.380074716	0.487	0.369	1	19 LDAH
1.51E-13	0.378988745	0.251	0.099	4.86E-09	19 CFAP251
3.05E-05	0.378502848	0.503	0.404	0.980761684	19 CTDSPL2
1.43E-06	0.378330882	0.452	0.304	0.045952443	19 SLC39A10
6.68E-10	0.377983463	0.291	0.144	2.14E-05	19 SPAG1
5.29E-12	0.377302351	0.357	0.18	1.70E-07	19 PLEKHG3
4.07E-10	0.377078447	0.97	0.831	1.31E-05	19 DDX17
1.29E-08	0.376760271	0.754	0.583	0.000415421	19 SETD5
1.15E-09	0.375673	0.322	0.169	3.69E-05	19 ZNF337-AS1
6.32E-19	0.375662452	0.402	0.161	2.03E-14	19 KIRREL1
5.61E-05	0.375107981	0.442	0.341	1	19 HNRNPR
1.20E-08	0.374751153	0.442	0.281	0.000386458	19 KCTD20
1.07E-07	0.374633724	0.513	0.354	0.003433591	19 FBXL2
4.65E-06	0.37389862	0.352	0.236	0.149261367	19 TOMM70
2.61E-07	0.373523264	0.402	0.26	0.008377569	19 WDR19
1.89E-07	0.373441939	0.598	0.451	0.006084355	19 CD46
9.85E-08	0.372949237	0.633	0.474	0.003164118	19 DMTF1
7.43E-09	0.372525054	0.382	0.225	0.000238632	19 CAT
1.62E-11	0.372156163	0.307	0.145	5.20E-07	19 TRHDE-AS1
6.37E-06	0.371888951	0.392	0.275	0.204524409	19 MRPL45P2
9.75E-08	0.370430264	0.377	0.228	0.003133007	19 ARRDC3

1.67E-09	0.370035289	0.317	0.166	5.37E-05	19 RASGRP1
2.56E-07	0.369780423	0.754	0.615	0.008228419	19 SIPA1L1
7.14E-05	0.369266087	0.462	0.357	1	19 MBTD1
2.19E-07	0.36885582	0.688	0.51	0.007043149	19 GAB1
9.95E-05	0.36803562	0.302	0.201	1	19 TCEA3
4.96E-15	0.367953793	0.312	0.128	1.59E-10	19 MFAP3L
1.10E-05	0.367911261	0.327	0.208	0.35455876	19 AP000317.2
9.75E-06	0.367593108	0.633	0.491	0.313174442	19 CCDC148
4.57E-06	0.36696614	0.563	0.434	0.146659881	19 ZNF280D
8.42E-16	0.366928645	0.729	0.388	2.71E-11	19 CACNA2D3
9.44E-13	0.366706198	0.588	0.362	3.03E-08	19 HSP90AA1
7.96E-13	0.366380349	0.99	0.88	2.56E-08	19 SYNE2
2.04E-07	0.365938403	0.93	0.821	0.006564824	19 TBC1D5
0.00014024	0.365887126	0.533	0.422	1	19 TCAIM
6.99E-09	0.365211	0.693	0.527	0.000224497	19 IFT88
1.01E-08	0.365097578	0.387	0.232	0.000325377	19 PEX3
6.98E-06	0.364763685	0.402	0.279	0.224073366	19 CFAP44
1.66E-09	0.364535967	0.382	0.229	5.32E-05	19 STAG3L5P
7.46E-09	0.364495741	0.482	0.313	0.000239689	19 BRCA1
7.90E-10	0.364468479	0.513	0.327	2.54E-05	19 SEPTIN10
5.20E-16	0.364466336	0.291	0.109	1.67E-11	19 NOSTRIN
2.98E-06	0.364357455	0.407	0.283	0.09556486	19 PRKD3
1.60E-06	0.364350926	0.598	0.465	0.051388225	19 BTBD7
4.36E-07	0.363599089	0.417	0.275	0.01400366	19 ZNF652
8.43E-14	0.363034231	0.397	0.176	2.71E-09	19 GLIS1
7.34E-05	0.362160814	0.447	0.335	1	19 NMD3
2.18E-07	0.362105127	0.407	0.264	0.007005014	19 SPATA7
8.43E-07	0.360919201	0.528	0.385	0.027082751	19 ACVR1
6.96E-06	0.35990271	0.487	0.37	0.223570813	19 SUPT20H
2.37E-08	0.359865412	0.658	0.498	0.000760676	19 PAWR
3.64E-06	0.358827296	0.322	0.199	0.116888718	19 LRIG3
2.44E-11	0.358447714	0.367	0.181	7.83E-07	19 AC005062.1
1.35E-06	0.358424206	0.558	0.433	0.04320388	19 VEZT
7.85E-06	0.358297627	0.382	0.262	0.25215609	19 NKAPP1
1.63E-06	0.357436633	0.387	0.262	0.052368623	19 SMN1
7.24E-07	0.357333771	0.407	0.273	0.023267285	19 CLSTN1
3.66E-08	0.355763758	0.347	0.2	0.001174556	19 TTC8
4.12E-06	0.355287192	0.342	0.224	0.132351001	19 PDE5A
3.75E-06	0.354929365	0.392	0.261	0.120460927	19 GPD2
5.50E-06	0.354117745	0.447	0.317	0.176692355	19 EIF3E
1.22E-07	0.35384727	0.392	0.247	0.00391301	19 UNK
4.30E-09	0.353820327	0.307	0.166	0.000138014	19 WHAMMP2
7.75E-09	0.353365812	0.719	0.549	0.000248902	19 C2orf42
5.79E-15	0.35320429	0.266	0.102	1.86E-10	19 RRN3P1
2.88E-09	0.352891933	0.95	0.802	9.24E-05	19 MED13L
7.07E-06	0.352858505	0.256	0.155	0.227011555	19 ZFAND1
3.91E-06	0.352314033	0.256	0.15	0.12568323	19 FAM66D
0.00018981	0.352126162	0.342	0.253	1	19 SERP1
1.53E-19	0.351691747	0.884	0.675	4.92E-15	19 SYNE1
5.23E-05	0.351667379	0.437	0.324	1	19 MIPEP
7.79E-09	0.351324106	0.307	0.167	0.000250138	19 PTGR2

1.15E-05	0.351322853	0.367	0.247	0.368910464	19 SCARB2
3.47E-09	0.351249481	0.568	0.368	0.000111314	19 DGKH
9.10E-11	0.350304755	0.663	0.42	2.92E-06	19 COL4A5
9.95E-05	0.349956938	0.362	0.257	1	19 WDR12
2.33E-06	0.349841683	0.633	0.506	0.074906027	19 GTF2I
3.30E-07	0.349055452	0.387	0.247	0.01058365	19 AKT2
5.81E-07	0.348479123	0.407	0.256	0.018665091	19 DOCK8
5.14E-09	0.348204489	0.834	0.65	0.000165213	19 EHBP1
8.79E-06	0.348046006	0.422	0.3	0.28233292	19 LINC00623
5.08E-06	0.348016743	0.558	0.407	0.163036694	19 LINC01376
1.88E-11	0.3478503	0.251	0.107	6.03E-07	19 TMX4
3.11E-07	0.34639797	0.276	0.154	0.009992886	19 ARSD
1.74E-05	0.345299285	0.487	0.37	0.559466851	19 MTA3
8.24E-11	0.345124237	0.271	0.124	2.65E-06	19 DMKN
2.63E-09	0.344914571	0.422	0.256	8.45E-05	19 INTS3
4.64E-07	0.344662093	0.513	0.357	0.014917668	19 RAP1GAP2
2.66E-06	0.344517566	0.573	0.448	0.085536093	19 SMG1P5
1.13E-10	0.344300642	0.256	0.116	3.64E-06	19 AC008758.6
0.00171726	0.343403681	0.372	0.284	1	19 PCDHGA1
0.00058332	0.3430165	0.347	0.251	1	19 CASC2
1.13E-06	0.342908288	0.256	0.138	0.036425812	19 LINC01697
2.08E-06	0.342576077	0.417	0.289	0.066736237	19 GSAP
0.00034293	0.34209401	0.337	0.243	1	19 ACAT1
1.25E-11	0.342068717	0.256	0.108	4.01E-07	19 ID2
2.95E-07	0.34095738	0.673	0.545	0.009482863	19 CPLANE1
1.01E-07	0.340948804	0.578	0.404	0.003237497	19 MAP3K5
1.79E-06	0.340723053	0.462	0.316	0.057469953	19 ADCY9
8.74E-08	0.340656982	0.638	0.498	0.002807678	19 SMAD3
1.45E-10	0.340589695	0.271	0.124	4.65E-06	19 BTBD8
0.00063169	0.340213635	0.432	0.346	1	19 PIK3CA
4.24E-12	0.340041615	0.427	0.211	1.36E-07	19 NRK
6.71E-07	0.339910563	0.402	0.272	0.021559697	19 RNF121
3.13E-06	0.339909414	0.658	0.554	0.100466895	19 SIPA1L3
1.12E-05	0.339679622	0.558	0.452	0.359328884	19 CPSF6
1.17E-16	0.339546711	0.513	0.268	3.75E-12	19 HOMER1
1.67E-07	0.339504822	0.457	0.318	0.005367105	19 CEP43
5.92E-07	0.339426465	0.628	0.461	0.019028171	19 CCDC50
2.90E-07	0.338179349	0.894	0.73	0.009321738	19 DOCK1
1.34E-08	0.337943988	0.296	0.155	0.000429507	19 KATNAL1
2.40E-05	0.337231022	0.754	0.645	0.771916051	19 RAPGEF2
0.00012926	0.336470121	0.598	0.493	1	19 HOXB3
3.18E-10	0.336230396	0.357	0.184	1.02E-05	19 IL1R1
2.83E-08	0.335880102	0.377	0.226	0.000909833	19 CNDP2
6.25E-07	0.335833219	0.362	0.226	0.020075616	19 ZNF507
5.40E-06	0.335146016	0.543	0.41	0.173285828	19 MIPOL1
1.05E-05	0.335066789	0.663	0.535	0.336198513	19 PIBF1
9.58E-06	0.334364337	0.382	0.244	0.307752917	19 PPP2R2B
6.17E-08	0.333831064	0.608	0.416	0.001982516	19 SPATS2L
2.30E-07	0.333501424	0.352	0.213	0.007371941	19 SWAP70
3.81E-05	0.333451007	0.387	0.279	1	19 KDM1A
6.75E-13	0.332815075	0.794	0.574	2.17E-08	19 CRIM1

5.71E-16	0.331625992	0.302	0.116	1.84E-11	19 ARHGAP31
0.00024588	0.331572359	0.286	0.195	1	19 FPGT-TNNI3K
4.98E-08	0.33154831	0.583	0.387	0.001600833	19 SIM1
7.10E-10	0.331224082	0.392	0.212	2.28E-05	19 REPS2
5.54E-06	0.331211173	0.578	0.453	0.177884702	19 ARMCX4
8.93E-05	0.330604085	0.377	0.274	1	19 ZNF736
8.90E-09	0.329382367	0.357	0.203	0.000285982	19 MTIF3
0.00011031	0.329045551	0.548	0.432	1	19 NRXN3
7.49E-06	0.328992498	0.588	0.456	0.240554613	19 ZNF618
3.18E-11	0.328341954	0.342	0.169	1.02E-06	19 SRP54-AS1
2.38E-07	0.32830471	0.317	0.184	0.00763232	19 C21orf62-AS1
0.00264134	0.327228875	0.256	0.188	1	19 POLR3B
4.01E-05	0.327171818	0.648	0.531	1	19 DCAF6
3.67E-08	0.326893681	0.734	0.533	0.001179798	19 TLN2
1.94E-07	0.326497103	0.477	0.318	0.00622307	19 IQCK
5.24E-05	0.326492585	0.603	0.503	1	19 NUP214
1.58E-06	0.326099022	0.623	0.487	0.050868535	19 CUL5
3.47E-07	0.325207157	0.482	0.328	0.011128928	19 SNX2
0.00037706	0.324626417	0.281	0.196	1	19 RCHY1
5.73E-06	0.324337095	0.452	0.327	0.184142521	19 SPEF2
1.28E-08	0.32403252	0.337	0.185	0.000411834	19 PELI1
3.22E-06	0.323349993	0.794	0.645	0.103407418	19 PHLDB2
2.41E-08	0.323048749	0.538	0.359	0.000775439	19 NAIP
1.77E-06	0.322901225	0.332	0.209	0.056779357	19 GOPC
1.03E-05	0.322757497	0.593	0.441	0.332120505	19 DEPTOR
0.00036287	0.322339552	0.573	0.461	1	19 LINC00894
0.00056582	0.321711579	0.327	0.23	1	19 TNFRSF19
7.63E-05	0.321494814	0.533	0.445	1	19 SLC25A36
5.79E-06	0.32097685	0.392	0.268	0.186015864	19 JMY
5.73E-09	0.32095593	0.312	0.166	0.000184005	19 ZNF468
5.83E-06	0.320293514	0.829	0.72	0.187220658	19 EXOC6B
7.11E-05	0.320213304	0.497	0.382	1	19 MYO5B
1.06E-06	0.320124134	0.638	0.485	0.034100873	19 CAST
5.57E-05	0.320040446	0.307	0.207	1	19 ZNHIT6
2.29E-06	0.31982068	0.563	0.42	0.073428577	19 RASA2
5.53E-07	0.318852668	0.477	0.324	0.017769907	19 NUP160
8.08E-08	0.318654293	0.673	0.491	0.002595725	19 ZFHX3
0.00142571	0.318577915	0.518	0.426	1	19 SPATA5
2.42E-05	0.317556279	0.613	0.482	0.778472538	19 RORA-AS1
0.00086458	0.317055544	0.332	0.243	1	19 TARS3
0.00012343	0.315496703	0.678	0.574	1	19 SSH2
1.36E-06	0.314932375	0.417	0.282	0.043643107	19 LINC02241
3.67E-07	0.314764072	0.251	0.131	0.011798627	19 LINC01550
1.24E-06	0.314471784	0.337	0.213	0.039959844	19 UFM1
0.0002455	0.314357957	0.603	0.517	1	19 NEK7
1.50E-06	0.313965531	0.683	0.564	0.048062788	19 RNF111
3.72E-05	0.313697969	0.281	0.18	1	19 MPZL1
5.52E-06	0.312942348	0.372	0.239	0.177384555	19 VEPH1
1.56E-05	0.312363695	0.382	0.27	0.499785184	19 DTWD1
9.04E-07	0.312327905	0.447	0.3	0.029018683	19 PHACTR1
8.69E-07	0.311831666	0.387	0.248	0.027912207	19 ZNF429

0.00995177	0.311730928	0.317	0.255	1	19 ZNF846
2.57E-05	0.31148599	0.688	0.568	0.826813261	19 CHD6
3.62E-09	0.311460809	0.312	0.162	0.000116153	19 LINC00937
4.57E-05	0.311117474	0.312	0.207	1	19 ZNF337
0.00024205	0.310650982	0.472	0.376	1	19 FAR1
0.00044485	0.310627587	0.538	0.447	1	19 PHF14
4.44E-13	0.310476212	0.482	0.252	1.43E-08	19 COL27A1
4.01E-06	0.309999683	0.372	0.245	0.128908039	19 TDRP
0.00121916	0.309399341	0.256	0.181	1	19 ESRP1
7.33E-07	0.307796774	0.357	0.225	0.023549118	19 AC005562.1
4.27E-06	0.306980767	0.347	0.225	0.137033785	19 PURA
5.67E-07	0.306685179	0.884	0.757	0.018206681	19 VPS13B
0.00026882	0.306389933	0.291	0.196	1	19 PRDX6-AS1
0.00031554	0.306038829	0.387	0.302	1	19 AC127502.1
2.44E-09	0.305997591	0.266	0.129	7.84E-05	19 HS6ST1
4.59E-05	0.3059165	0.638	0.513	1	19 DENND1B
6.23E-08	0.305727879	0.382	0.228	0.002002225	19 CAP2
2.63E-06	0.305133514	0.673	0.532	0.084434744	19 TRA2A
7.47E-10	0.304763525	0.563	0.357	2.40E-05	19 SRGAP1
7.79E-05	0.304349758	0.683	0.571	1	19 RABGAP1
1.02E-06	0.304296458	0.648	0.487	0.03289056	19 SHLD2
1.91E-05	0.304276492	0.417	0.305	0.614174592	19 CRYZ
2.15E-08	0.30420436	0.417	0.254	0.000689865	19 PARP8
3.45E-05	0.304067615	0.447	0.322	1	19 PER3
0.00318259	0.303865532	0.492	0.432	1	19 MCPH1
1.20E-05	0.303682796	0.508	0.388	0.386865166	19 FCHO2
9.28E-06	0.303564466	0.447	0.317	0.298003157	19 SRP54
0.00012295	0.303229094	0.588	0.485	1	19 XRCC5
1.53E-05	0.302525416	0.714	0.574	0.491612979	19 CNKSR3
0.00079922	0.302166488	0.347	0.266	1	19 RNF216P1
0.00013195	0.301079975	0.392	0.277	1	19 LINC01572
1.35E-05	0.300674567	0.407	0.284	0.432647736	19 HOOK1
2.98E-06	0.300596661	0.372	0.254	0.095724066	19 SNAPC3
7.79E-07	0.299903634	0.477	0.32	0.02502743	19 MBOAT2
3.14E-08	0.299708779	0.975	0.919	0.001009588	19 FTX
8.94E-07	0.299654663	0.553	0.422	0.028720636	19 FUBP1
1.13E-06	0.299177209	0.598	0.459	0.036330899	19 AL669831.3
0.0014475	0.298986594	0.472	0.384	1	19 AC004160.1
0.00054843	0.298671546	0.432	0.335	1	19 GLUD1
0.00983991	0.298631621	0.357	0.292	1	19 QSER1
4.04E-08	0.298229345	0.261	0.132	0.001298679	19 MIS18BP1
0.00030055	0.298052443	0.578	0.476	1	19 ATE1
9.28E-05	0.297397148	0.281	0.19	1	19 STAG3L2
8.04E-06	0.296801018	0.392	0.269	0.258288036	19 AP002495.1
2.39E-06	0.296341064	0.276	0.165	0.076844503	19 STMP1
8.84E-09	0.296038188	0.462	0.264	0.000283992	19 Z93403.1
2.39E-05	0.295979833	0.422	0.305	0.767960637	19 MBD2
1.58E-11	0.295564897	0.859	0.552	5.06E-07	19 ZBTB16
1.34E-07	0.295306666	0.276	0.149	0.004291661	19 SLC37A1
1.82E-08	0.295179447	0.387	0.227	0.000584666	19 AC019257.8
0.00141312	0.295138852	0.427	0.348	1	19 ACVR1B

3.70E-06	0.295135088	0.327	0.206	0.118736762	19 VSIG10
0.0012733	0.294827882	0.251	0.179	1	19 ATG4C
0.00124861	0.293887622	0.608	0.525	1	19 EFCAB13
0.00171328	0.293676328	0.472	0.398	1	19 MTREX
5.72E-18	0.293340686	0.357	0.137	1.84E-13	19 AKAP12
2.21E-05	0.293215646	0.392	0.274	0.710127078	19 MTMR2
1.10E-07	0.293005664	0.317	0.179	0.00352826	19 AC092329.3
4.58E-05	0.292959964	0.573	0.444	1	19 CHD7
2.09E-06	0.292753272	0.482	0.346	0.067107842	19 ARAP2
0.0002929	0.292719832	0.543	0.435	1	19 C1QTNF3-AMAC
6.32E-06	0.292699694	0.804	0.687	0.203013484	19 TRIO
0.00016298	0.292610236	0.457	0.361	1	19 MDN1
0.00087448	0.292579488	0.462	0.376	1	19 PIGN
9.76E-07	0.292526332	0.638	0.504	0.031332104	19 NBPF14
6.80E-05	0.292447805	0.357	0.253	1	19 ARMC9
8.77E-09	0.292096366	0.256	0.125	0.000281802	19 PAXIP1-AS2
6.96E-07	0.291941847	0.307	0.18	0.022343589	19 TMEM106B
0.00224862	0.291927247	0.276	0.206	1	19 EIF2AK4
7.31E-06	0.291137076	0.508	0.375	0.234775245	19 RAD9A
2.28E-05	0.290328965	0.337	0.228	0.731619705	19 POLE2
1.69E-09	0.290204138	0.804	0.589	5.42E-05	19 PTPRJ
4.32E-06	0.289521945	0.417	0.278	0.138624974	19 ITGB3BP
3.15E-05	0.28908063	0.347	0.23	1	19 MAMDC2-AS1
2.26E-08	0.288778475	0.809	0.634	0.000727091	19 SCMHI
4.00E-05	0.28871039	0.457	0.337	1	19 KLHL28
8.79E-06	0.288280794	0.538	0.419	0.282199647	19 SMG1P2
8.32E-06	0.288034426	0.387	0.264	0.267065558	19 AC009554.1
4.02E-05	0.288007371	0.543	0.415	1	19 WARS2-AS1
6.55E-07	0.287405061	0.281	0.16	0.02102681	19 ASAH1
1.72E-06	0.287256739	0.583	0.422	0.055084778	19 TPTE2P5
0.00019365	0.287021551	0.508	0.404	1	19 URI1
3.09E-06	0.286768045	0.633	0.488	0.099256577	19 NSD3
4.26E-05	0.285997604	0.794	0.638	1	19 USP25
5.94E-06	0.285380509	0.427	0.3	0.190797523	19 CLK4
5.93E-07	0.285353375	0.864	0.771	0.019036697	19 NPIP5
2.62E-05	0.284758054	0.573	0.444	0.842313776	19 CEP95
0.00129372	0.284607384	0.462	0.382	1	19 KLHDC10
5.25E-06	0.284436373	0.327	0.206	0.168770695	19 PTPRS
6.53E-07	0.284258687	0.714	0.581	0.02096025	19 PIAS1
0.00040593	0.284244395	0.382	0.286	1	19 STX17
5.10E-05	0.283977971	0.633	0.512	1	19 RB1
2.56E-05	0.283931014	0.271	0.17	0.823607714	19 NME5
1.06E-07	0.283842293	0.266	0.139	0.003403094	19 CCDC40
1.02E-06	0.283549517	0.724	0.582	0.032713359	19 SCAF11
0.00072147	0.282715006	0.457	0.372	1	19 FAM185A
1.11E-08	0.28269637	0.312	0.164	0.000357677	19 ANKDD1B
0.00010874	0.282629674	0.256	0.165	1	19 MACROH2A1
7.15E-05	0.282350488	0.337	0.231	1	19 GTF3C1
0.00022306	0.282144028	0.402	0.309	1	19 EPG5
0.00202116	0.28203183	0.437	0.359	1	19 WASL
3.92E-06	0.282020332	0.678	0.51	0.126009352	19 FXD2

0.00010549	0.281940127	0.312	0.212	1	19 RAB12
7.42E-07	0.281878028	0.332	0.204	0.023828675	19 SMG1P7
0.00518129	0.281307608	0.377	0.297	1	19 MAL
3.86E-07	0.281124374	0.472	0.316	0.012405544	19 MYOF
1.15E-11	0.280926153	0.487	0.26	3.69E-07	19 TNIK
1.52E-06	0.280644599	0.296	0.173	0.048871472	19 LINC00467
0.00102671	0.280126576	0.337	0.252	1	19 SIMC1
0.00043155	0.280025034	0.402	0.307	1	19 ASCC1
1.66E-07	0.279726411	0.754	0.544	0.005342	19 CTDSPL
0.00036118	0.279458811	0.266	0.18	1	19 AC048341.1
1.90E-06	0.27922141	0.332	0.198	0.060976466	19 LINC01006
0.00025038	0.278811764	0.327	0.227	1	19 NUP155
8.55E-07	0.278480235	0.312	0.185	0.02745945	19 ZMYM1
2.82E-05	0.278330996	0.568	0.444	0.90513162	19 SVIL-AS1
0.00133439	0.278230821	0.442	0.347	1	19 TRIM24
0.00049511	0.276646551	0.377	0.28	1	19 ZNF431
5.91E-05	0.276373075	0.508	0.387	1	19 FBXO42
6.83E-05	0.276157327	0.457	0.345	1	19 TTN
2.81E-05	0.275654109	0.658	0.542	0.901595629	19 HECTD4
2.52E-10	0.275547455	0.276	0.125	8.09E-06	19 SLC6A12
0.00015203	0.275204128	0.377	0.275	1	19 LINC00472
0.00210505	0.275187372	0.598	0.505	1	19 TRIM2
0.00033053	0.275110886	0.302	0.208	1	19 ARL13B
9.93E-05	0.274077846	0.402	0.292	1	19 FAM149B1
0.00010254	0.273907841	0.276	0.182	1	19 GOLPH3L
0.00049624	0.273642017	0.372	0.276	1	19 ZNF737
5.21E-06	0.273002732	0.317	0.195	0.16727196	19 G3BP2
2.33E-05	0.27271642	0.302	0.191	0.748194006	19 ENAH
0.00011776	0.27212891	0.382	0.284	1	19 LINC00630
9.56E-06	0.271799159	0.714	0.579	0.307188266	19 SPIN1
8.68E-13	0.271511554	0.261	0.106	2.79E-08	19 PLAAT3
0.00155759	0.270722041	0.613	0.5	1	19 UMAD1
1.93E-05	0.270538395	0.492	0.371	0.619134229	19 CCNC
1.24E-05	0.269986373	0.678	0.539	0.397745351	19 ZHX2
4.40E-08	0.269750683	0.266	0.134	0.001413214	19 JUNB
0.00032563	0.269264216	0.312	0.225	1	19 PSMA3
2.32E-05	0.269103342	0.709	0.584	0.746487722	19 SRSF11
0.00036498	0.268148631	0.482	0.384	1	19 TCERG1
0.00010222	0.268103349	0.432	0.323	1	19 ALG13
1.35E-05	0.268030135	0.392	0.266	0.432082069	19 ZNF251
0.00047836	0.267635581	0.337	0.246	1	19 SPOPL
0.00032877	0.267617639	0.312	0.223	1	19 KLHDC1
0.00221212	0.267546225	0.387	0.291	1	19 ZSWIM5
0.00173696	0.267029358	0.452	0.373	1	19 TANK
6.79E-06	0.266399212	0.291	0.178	0.218122765	19 IFNAR1
6.67E-06	0.266342418	0.352	0.225	0.214339482	19 EFHC1
4.30E-05	0.266171583	0.276	0.177	1	19 SCRNI
4.93E-06	0.266023434	0.327	0.206	0.15841425	19 RILPL1
6.62E-06	0.265769298	0.744	0.617	0.212755677	19 NRXN1
0.00086557	0.265302281	0.472	0.379	1	19 ABL2
8.67E-09	0.265142982	0.362	0.197	0.000278514	19 GPR155

1.93E-05	0.264900276	0.538	0.403	0.618392364	19 STX7
0.00081394	0.264557599	0.442	0.345	1	19 NDFIP1
0.0026502	0.264192813	0.291	0.219	1	19 UBXXN2B
0.004549	0.264077713	0.266	0.2	1	19 VPS4B
2.29E-05	0.263875876	0.779	0.658	0.735028412	19 KMT2E
1.51E-06	0.26375691	0.432	0.288	0.048577224	19 MSANTD2
2.08E-06	0.263442198	0.834	0.69	0.066889261	19 NUMB
2.41E-05	0.263409998	0.276	0.17	0.774558433	19 TRMT44
5.94E-05	0.26319539	0.523	0.416	1	19 KMT5B
0.00045357	0.262969419	0.513	0.408	1	19 ORC4
0.0001124	0.262370649	0.276	0.176	1	19 RPP38
4.10E-06	0.262293601	0.256	0.148	0.131525887	19 SPATA6L
0.00472363	0.262197525	0.367	0.301	1	19 FZD6
3.61E-06	0.262179976	0.291	0.173	0.115919461	19 SNX7
1.09E-07	0.262176083	0.759	0.595	0.003498528	19 VPS13A
4.29E-05	0.262105309	0.281	0.177	1	19 RASSF6
3.69E-06	0.26209686	0.312	0.186	0.118559625	19 OR7E14P
0.00092807	0.261998107	0.327	0.241	1	19 ZNF138
2.95E-05	0.261964438	0.281	0.179	0.948773147	19 LINC01347
0.00862452	0.261536836	0.397	0.333	1	19 CFAP221
9.38E-05	0.2613941	0.668	0.551	1	19 NUTM2A-AS1
2.52E-08	0.261202462	0.643	0.465	0.000809202	19 ANKRD36B
0.00458283	0.261179081	0.603	0.52	1	19 DNAJC1
3.10E-05	0.261140759	0.281	0.173	0.995406666	19 TSPAN12
0.00207897	0.261072881	0.397	0.319	1	19 METTL16
2.19E-06	0.260910043	0.563	0.379	0.070187807	19 PTPRD
0.00987521	0.260663151	0.276	0.216	1	19 BLOC1S5-TXND
0.00352333	0.260006258	0.337	0.266	1	19 HBS1L
0.001933	0.259859209	0.317	0.237	1	19 POT1
0.00037668	0.25968846	0.538	0.431	1	19 ANKUB1
2.51E-07	0.259463417	0.256	0.134	0.008062039	19 SLC12A9
5.81E-06	0.259407014	0.276	0.165	0.186606607	19 PRMT7
0.00021751	0.2593972	0.749	0.637	1	19 PUM2
3.53E-21	0.259274187	0.995	0.884	1.13E-16	19 MAGI1
0.00062826	0.259166645	0.322	0.234	1	19 CDRT4
8.03E-06	0.258825072	0.342	0.221	0.257896622	19 N4BP2
0.00070908	0.258638689	0.492	0.396	1	19 MPP5
2.57E-06	0.258585629	0.261	0.15	0.082525279	19 SIAE
6.70E-09	0.257890621	0.342	0.188	0.000215039	19 NPIP2B
0.00192105	0.257323856	0.472	0.405	1	19 GTF2IRD2
0.0001494	0.25700606	0.568	0.451	1	19 SPECC1L
0.00012513	0.256775007	0.291	0.193	1	19 AC090360.1
2.49E-06	0.256650715	0.729	0.564	0.08006043	19 FNIP2
0.00159848	0.256326545	0.457	0.369	1	19 ENSA
0.00154874	0.255924209	0.261	0.187	1	19 CUTC
0.00082875	0.255563192	0.302	0.213	1	19 MRE11
0.0022243	0.255422362	0.332	0.257	1	19 CR382285.1
8.47E-07	0.255256243	0.744	0.597	0.027207995	19 ENOSF1
2.53E-05	0.255165109	0.523	0.407	0.811770856	19 ATG2B
0.00048131	0.254990866	0.854	0.811	1	19 PRH1
0.00012098	0.25444134	0.342	0.243	1	19 XPNPEP3

0.0001038	0.254391148	0.462	0.347	1	19 SEC63
0.00036058	0.254091171	0.362	0.275	1	19 KHDC4
9.39E-05	0.253979058	0.327	0.221	1	19 TTC12
4.08E-05	0.25360912	0.302	0.198	1	19 GATAD1
0.00110694	0.253444221	0.533	0.43	1	19 SMURF2
1.36E-06	0.253234313	0.251	0.139	0.043817609	19 TUB
2.49E-07	0.252349176	0.342	0.198	0.007989745	19 SLC15A2
0.00117329	0.252305871	0.291	0.207	1	19 SP4
8.46E-07	0.25190474	0.281	0.159	0.027176333	19 AL732372.2
3.73E-05	0.25177945	0.251	0.153	1	19 ZNF627
0.00010227	0.251639956	0.558	0.426	1	19 ANO10
4.54E-05	0.251493961	0.744	0.648	1	19 SMG1
1.71E-06	0.251253973	0.653	0.489	0.054849462	19 CCDC30
0.0008518	0.250793411	0.548	0.44	1	19 TOM1L1
0.00372692	0.250722087	0.683	0.582	1	19 VAV3
0.00408728	0.25045626	0.548	0.46	1	19 TMEM135
0.00363944	0.250336609	0.467	0.385	1	19 TMEM14B
1.50E-06	0.250145389	0.372	0.223	0.048044386	19 FGF14
2.85E-62	1.628185286	0.761	0.14	9.16E-58	20 SCNN1G
3.75E-28	1.56290824	0.943	0.502	1.21E-23	20 SLC8A1
5.15E-23	1.559272014	0.636	0.227	1.65E-18	20 SNTG1
6.41E-37	1.508094001	0.818	0.251	2.06E-32	20 LINC01098
9.80E-30	1.426649573	1	0.694	3.15E-25	20 CADPS2
2.15E-38	1.408230957	0.75	0.196	6.89E-34	20 PWRN1
1.46E-32	1.381109933	0.443	0.089	4.68E-28	20 PRPS2
8.94E-28	1.350053282	0.602	0.168	2.87E-23	20 EYA4
1.55E-13	1.323613154	0.284	0.076	4.99E-09	20 AC092691.1
1.87E-45	1.322276926	0.614	0.122	6.00E-41	20 SLC9A4
2.34E-31	1.297136286	0.909	0.349	7.52E-27	20 BMPR1B
2.11E-22	1.296982542	0.966	0.575	6.79E-18	20 RALYL
2.94E-36	1.278124948	0.705	0.188	9.45E-32	20 HUNK
1.76E-25	1.273976985	0.83	0.325	5.67E-21	20 SLC8A1-AS1
2.89E-27	1.222922508	1	0.612	9.27E-23	20 TRPM3
1.98E-26	1.192138544	0.591	0.17	6.37E-22	20 KCNIP1
1.07E-29	1.155027391	0.943	0.38	3.42E-25	20 SOX5
3.37E-22	1.15387187	0.943	0.487	1.08E-17	20 TOX3
2.71E-25	1.15127096	0.841	0.32	8.71E-21	20 FAM110B
6.62E-12	1.141705625	0.466	0.194	2.12E-07	20 ZNF331
4.22E-28	1.137306612	0.648	0.199	1.36E-23	20 ARG2
6.16E-16	1.132462233	0.92	0.655	1.98E-11	20 RAD51B
1.42E-21	1.121813114	0.909	0.431	4.57E-17	20 TMTC2
4.34E-16	1.121760376	0.682	0.31	1.40E-11	20 ATP1B3
7.07E-17	1.119423694	0.943	0.682	2.27E-12	20 NFE2L2
9.75E-21	1.114420154	0.977	0.709	3.13E-16	20 FRAS1
7.64E-28	1.08797194	0.784	0.286	2.45E-23	20 RALBP1
1.86E-42	1.06997108	0.318	0.037	5.97E-38	20 AC087379.2
5.35E-22	1.06979187	0.977	0.551	1.72E-17	20 GRIP1
7.24E-26	1.052002692	0.977	0.418	2.33E-21	20 PIK3C2G
2.23E-25	1.048998697	0.966	0.501	7.16E-21	20 EYA3
9.62E-21	1.031477617	1	0.765	3.09E-16	20 AC019197.1
2.12E-30	1.018050919	0.83	0.278	6.81E-26	20 NRCAM

5.73E-35	1.009208326	0.523	0.108	1.84E-30	20 SCNN1B
8.30E-27	1.005335915	1	0.974	2.67E-22	20 PDE4D
3.72E-24	0.997744811	0.67	0.238	1.19E-19	20 VEPH1
2.33E-22	0.993624752	0.818	0.348	7.49E-18	20 SLC38A1
1.83E-22	0.991091124	0.886	0.438	5.87E-18	20 HSD11B2
2.59E-15	0.98447606	0.875	0.524	8.31E-11	20 PTBP3
8.12E-26	0.979141478	0.955	0.387	2.61E-21	20 KCNJ15
7.46E-16	0.971151368	1	0.825	2.40E-11	20 COBLL1
8.92E-21	0.965093652	0.807	0.379	2.86E-16	20 CRYBG1
5.27E-35	0.963163895	0.864	0.247	1.69E-30	20 MIOX
1.82E-21	0.94578353	0.943	0.455	5.84E-17	20 TEX41
1.16E-17	0.943034001	0.83	0.447	3.72E-13	20 C11orf80
4.60E-21	0.941786468	0.818	0.356	1.48E-16	20 SGPP1
2.95E-18	0.915805786	0.511	0.171	9.49E-14	20 TMEM178A
3.76E-17	0.912781962	0.784	0.376	1.21E-12	20 VAV2
4.98E-18	0.910527309	0.727	0.319	1.60E-13	20 SLC45A4
6.74E-20	0.903648547	0.966	0.599	2.17E-15	20 PRKAG2
2.31E-16	0.892342231	0.409	0.124	7.43E-12	20 AC044810.3
6.60E-35	0.891326661	0.75	0.205	2.12E-30	20 APCDD1L-DT
1.79E-20	0.887376465	0.898	0.411	5.76E-16	20 MPPED2
2.02E-26	0.885419517	0.682	0.215	6.50E-22	20 CALB1
1.17E-21	0.882589689	0.693	0.262	3.74E-17	20 AC022414.1
1.07E-14	0.878803547	1	0.771	3.44E-10	20 AFF1
2.36E-26	0.87284443	0.773	0.261	7.58E-22	20 PDE3B
5.92E-19	0.871286099	0.977	0.573	1.90E-14	20 DCDC2
6.88E-14	0.859663614	0.886	0.542	2.21E-09	20 ABTB2
9.21E-16	0.850986034	0.807	0.413	2.96E-11	20 CDK6
6.01E-24	0.84884818	0.636	0.199	1.93E-19	20 GATA3
3.33E-19	0.845098654	0.989	0.786	1.07E-14	20 GLIS3
3.06E-16	0.833883831	0.761	0.362	9.82E-12	20 STIM2
3.06E-11	0.826105725	0.761	0.414	9.83E-07	20 SCIN
2.21E-14	0.822946387	0.92	0.555	7.11E-10	20 STARD13
1.36E-24	0.812736307	0.545	0.152	4.35E-20	20 PLCZ1
7.54E-18	0.809425048	0.989	0.583	2.42E-13	20 LAMB1
2.16E-14	0.80367324	0.386	0.123	6.93E-10	20 SLC9A2
4.41E-25	0.801745289	0.477	0.116	1.42E-20	20 KCNK13
1.14E-13	0.795740578	1	0.794	3.65E-09	20 RBPMS
6.54E-20	0.791187531	0.625	0.221	2.10E-15	20 RIMBP2
2.35E-13	0.774099336	0.932	0.626	7.55E-09	20 GAREM1
7.84E-14	0.770728597	0.966	0.711	2.52E-09	20 ERC1
5.31E-14	0.769091377	0.909	0.557	1.71E-09	20 STK33
3.46E-15	0.755527827	0.511	0.194	1.11E-10	20 IQUB
1.66E-14	0.751908822	0.943	0.563	5.32E-10	20 MYO1E
4.89E-16	0.74998476	1	0.777	1.57E-11	20 ARL15
1.26E-27	0.740516559	0.636	0.178	4.04E-23	20 SLC7A1
2.49E-38	0.7357038	0.807	0.204	8.00E-34	20 AFM
1.84E-15	0.731310938	0.977	0.626	5.91E-11	20 PRKG1
8.06E-12	0.72889537	0.466	0.183	2.59E-07	20 ZC3HAV1
4.53E-15	0.725254518	0.67	0.29	1.45E-10	20 ADAM22
2.12E-25	0.725226966	0.455	0.107	6.82E-21	20 AL512662.1
2.96E-19	0.723820863	0.557	0.181	9.50E-15	20 AC011586.1

2.51E-15	0.722921892	0.909	0.458	8.06E-11	20 SCN2A
0.00023683	0.717907149	0.307	0.166	1	20 SGCD
6.62E-15	0.709931329	0.636	0.261	2.13E-10	20 MSR1
1.22E-09	0.709456117	0.568	0.287	3.93E-05	20 MID1
7.02E-23	0.707922805	0.443	0.109	2.26E-18	20 HMGCS2
5.26E-13	0.70395053	0.466	0.166	1.69E-08	20 LINC01482
5.26E-14	0.703166574	0.716	0.348	1.69E-09	20 MAP3K21
1.77E-06	0.703010943	0.886	0.741	0.056910008	20 NFAT5
9.07E-18	0.696069644	0.716	0.278	2.91E-13	20 FYB2
7.83E-13	0.694128814	0.659	0.313	2.52E-08	20 KIZ
6.36E-10	0.693917093	0.625	0.308	2.04E-05	20 SUSD1
2.88E-12	0.690644289	0.886	0.534	9.26E-08	20 TLN2
6.45E-11	0.687245493	0.932	0.646	2.07E-06	20 FRG1HP
2.92E-21	0.684270107	0.648	0.22	9.38E-17	20 EML6
1.03E-16	0.67979108	0.534	0.186	3.31E-12	20 KCNS3
5.98E-14	0.679081739	0.727	0.351	1.92E-09	20 AC092944.1
2.12E-13	0.669572859	0.898	0.509	6.81E-09	20 TANC2
3.97E-18	0.665892617	0.443	0.129	1.28E-13	20 BARX2
7.20E-14	0.665422745	0.977	0.665	2.31E-09	20 PTPN13
1.52E-14	0.664074722	0.852	0.419	4.89E-10	20 LHFPL3
3.13E-17	0.663874285	0.648	0.254	1.01E-12	20 TRPV4
5.07E-15	0.663872379	0.727	0.322	1.63E-10	20 MACC1
5.21E-22	0.66204124	0.966	0.43	1.67E-17	20 SLC4A4
8.89E-12	0.66112874	0.773	0.421	2.86E-07	20 KCNQ1
4.60E-32	0.660366874	0.318	0.047	1.48E-27	20 SIRLNT
1.75E-15	0.653440827	0.318	0.082	5.63E-11	20 FXYD4
4.20E-14	0.65259729	0.864	0.436	1.35E-09	20 KCNJ3
9.84E-14	0.645620294	0.648	0.285	3.16E-09	20 PLEKHA2
3.55E-17	0.645458391	0.841	0.379	1.14E-12	20 GLDC
5.07E-11	0.642672354	0.705	0.378	1.63E-06	20 CDKL1
2.86E-19	0.640963576	0.386	0.098	9.20E-15	20 FGD3
3.30E-13	0.64057309	0.795	0.383	1.06E-08	20 PCDH9
1.66E-11	0.638666551	1	0.781	5.32E-07	20 MECOM
3.34E-11	0.635923574	0.909	0.588	1.07E-06	20 TRHDE
2.14E-13	0.632452695	0.432	0.145	6.86E-09	20 PCDH7
3.51E-15	0.629264168	0.943	0.588	1.13E-10	20 FGGY
9.18E-11	0.628215557	0.977	0.786	2.95E-06	20 BCAS3
2.30E-13	0.628053654	0.841	0.416	7.38E-09	20 FAM171A1
3.30E-12	0.62646709	0.784	0.417	1.06E-07	20 TMEM51
8.12E-14	0.626436885	0.545	0.218	2.61E-09	20 SYK
9.39E-32	0.62485648	0.864	0.251	3.02E-27	20 PRODH2
7.66E-17	0.623826956	0.614	0.227	2.46E-12	20 PRDM16-DT
2.88E-11	0.620160986	0.955	0.692	9.26E-07	20 FHOD3
8.45E-17	0.619628021	0.5	0.165	2.71E-12	20 AC011586.2
1.64E-15	0.616295248	0.42	0.129	5.26E-11	20 LINC01508
4.03E-11	0.613050277	0.455	0.18	1.30E-06	20 ANGPT1
1.47E-13	0.605911585	0.989	0.691	4.71E-09	20 AGBL4
2.58E-14	0.604820693	0.818	0.404	8.29E-10	20 MYO5A
1.82E-08	0.604783487	0.716	0.387	0.000585934	20 SIM1
5.53E-14	0.599859956	0.67	0.257	1.78E-09	20 XIST
3.59E-10	0.598482064	0.864	0.58	1.15E-05	20 ASAP2

8.98E-10	0.597575583	0.602	0.306	2.88E-05	20 ABCB1
1.92E-10	0.593458947	1	0.792	6.16E-06	20 NR3C2
1.03E-13	0.59339061	0.432	0.149	3.32E-09	20 FAM81A
1.83E-22	0.589934387	0.341	0.071	5.89E-18	20 GATA2
6.27E-12	0.588732544	1	0.71	2.01E-07	20 DLG2
5.37E-10	0.585388374	0.739	0.407	1.73E-05	20 DPH6-DT
1.48E-38	0.584577973	0.295	0.035	4.76E-34	20 AC073172.1
1.97E-16	0.58393809	0.636	0.25	6.34E-12	20 FAM20C
2.66E-13	0.583320594	0.432	0.155	8.54E-09	20 RDH10
2.84E-31	0.582356659	0.591	0.137	9.14E-27	20 ADGRG5
1.21E-08	0.582000019	0.852	0.507	0.000389544	20 LRP1B
2.78E-08	0.580197817	0.375	0.162	0.000894385	20 PAPSS2
0.00061451	0.576817781	0.364	0.217	1	20 LSAMP
5.50E-12	0.576255021	0.943	0.522	1.77E-07	20 FREM1
2.23E-18	0.575813698	0.705	0.281	7.16E-14	20 PTGR1
5.43E-22	0.574877322	0.568	0.168	1.74E-17	20 TPM4
0.00025034	0.570118854	0.409	0.244	1	20 USP36
1.23E-09	0.569650507	0.364	0.138	3.94E-05	20 IL1RAPL1
1.34E-19	0.569451814	0.398	0.1	4.29E-15	20 ROR2
1.06E-13	0.568554177	0.648	0.283	3.40E-09	20 CSRNP3
3.16E-21	0.562675324	0.375	0.09	1.02E-16	20 GMNN
9.19E-17	0.560950898	0.398	0.113	2.95E-12	20 CWH43
5.53E-12	0.55799544	0.739	0.376	1.78E-07	20 BCAR3
2.54E-15	0.555110792	0.625	0.242	8.17E-11	20 EMX1
2.13E-12	0.553349938	0.966	0.665	6.84E-08	20 PAX8-AS1
3.55E-09	0.54996565	0.83	0.483	0.000114104	20 GALNT18
1.87E-10	0.545954718	0.818	0.47	5.99E-06	20 GALNT11
9.72E-20	0.54594974	0.455	0.123	3.12E-15	20 AQP2
1.82E-30	0.545626017	0.909	0.274	5.84E-26	20 SLC6A13
9.95E-12	0.545268273	0.852	0.475	3.20E-07	20 SPIRE1
9.62E-09	0.545227464	0.92	0.673	0.000308953	20 AAK1
1.87E-19	0.543349812	0.477	0.137	6.00E-15	20 PSMA1
8.82E-12	0.543023718	0.625	0.287	2.83E-07	20 SCN3A
3.53E-10	0.541872928	0.545	0.254	1.13E-05	20 KIF26B
2.08E-10	0.538371944	0.966	0.703	6.68E-06	20 WSB1
5.90E-09	0.537178232	0.989	0.782	0.000189627	20 SETBP1
3.68E-22	0.536810991	0.818	0.287	1.18E-17	20 LINC00871
1.82E-05	0.536167064	0.511	0.305	0.584300338	20 LINC02694
3.55E-10	0.536044736	0.852	0.518	1.14E-05	20 C4orf19
2.42E-11	0.527867247	1	0.832	7.78E-07	20 PTH2R
3.56E-12	0.527228334	0.398	0.139	1.14E-07	20 AL512506.3
3.96E-10	0.524890562	0.477	0.206	1.27E-05	20 FSTL4
1.33E-12	0.524104291	0.58	0.249	4.26E-08	20 AIF1L
2.55E-10	0.522984396	0.591	0.275	8.19E-06	20 ZNF208
1.99E-18	0.522756995	0.295	0.064	6.38E-14	20 AC019080.3
2.52E-09	0.520361137	0.966	0.664	8.10E-05	20 LIMCH1
2.74E-06	0.519609033	0.739	0.523	0.087949256	20 RNF19A
5.54E-18	0.515596351	0.511	0.166	1.78E-13	20 RASGRP1
1.17E-10	0.51446913	0.5	0.225	3.75E-06	20 MAL2
1.32E-06	0.513053538	0.318	0.142	0.042469544	20 HMGA2
5.33E-12	0.511844083	0.818	0.416	1.71E-07	20 SPATS2L

8.54E-16	0.50777726	0.523	0.174	2.74E-11	20 SLC27A2
1.52E-08	0.500687376	0.659	0.376	0.000488377	20 DHX9
9.93E-12	0.495651173	0.761	0.395	3.19E-07	20 AC074386.1
3.48E-21	0.49543725	0.545	0.154	1.12E-16	20 SLC7A7
3.22E-09	0.490533791	0.977	0.686	0.000103278	20 KAZN
9.59E-25	0.48745893	1	0.365	3.08E-20	20 ACSM2B
7.79E-10	0.485587263	0.489	0.214	2.50E-05	20 MYRFL
3.60E-10	0.483268386	1	0.831	1.16E-05	20 BICC1
6.53E-14	0.482297465	0.25	0.058	2.10E-09	20 LINC01924
7.56E-10	0.481319857	0.534	0.255	2.43E-05	20 PGM5
1.46E-06	0.479420728	0.614	0.369	0.046762074	20 LATS2
2.25E-07	0.478937041	0.989	0.814	0.007229075	20 MAPK10
1.02E-08	0.478163511	0.841	0.528	0.00032694	20 MAP4K3-DT
1.52E-07	0.478029862	0.807	0.572	0.004890932	20 WWTR1
7.37E-10	0.475446434	0.341	0.124	2.37E-05	20 TMEM45B
2.60E-13	0.472781986	0.636	0.27	8.36E-09	20 AC008554.1
2.08E-10	0.471136663	0.568	0.261	6.68E-06	20 GS1-24F4.2
4.84E-16	0.470482512	0.364	0.098	1.56E-11	20 HES1
1.92E-30	0.469992343	0.932	0.302	6.17E-26	20 FTCD
8.41E-15	0.46880256	0.5	0.175	2.70E-10	20 PLPP4
1.20E-10	0.4683022	0.648	0.318	3.86E-06	20 IQCK
8.44E-06	0.468235938	0.58	0.351	0.270960384	20 ST6GAL1
3.66E-20	0.467240112	0.261	0.049	1.17E-15	20 OVCH2
6.15E-11	0.463725849	0.375	0.135	1.98E-06	20 HOXA9
1.60E-10	0.463377083	0.625	0.279	5.13E-06	20 KCTD8
2.57E-08	0.462174327	0.989	0.717	0.000826012	20 ADAMTS9-AS2
9.53E-10	0.4618019	0.807	0.48	3.06E-05	20 COL18A1
2.54E-06	0.460803387	0.989	0.732	0.081512899	20 AC008014.1
1.39E-11	0.4605022	0.852	0.538	4.45E-07	20 GUSBP11
9.40E-08	0.459320456	0.909	0.544	0.003019642	20 SPAG16
3.26E-10	0.458027232	0.75	0.395	1.05E-05	20 ADAMTS16
2.32E-08	0.455759199	0.75	0.429	0.000746204	20 MGMT
2.92E-11	0.45472095	0.841	0.477	9.37E-07	20 MOB1B
1.39E-08	0.453174897	0.761	0.439	0.000446709	20 ALOX12P2
2.56E-14	0.451701185	0.318	0.086	8.23E-10	20 PRR5L
1.03E-22	0.451632636	0.784	0.271	3.32E-18	20 ENPP7P8
5.16E-09	0.451203841	0.795	0.482	0.000165804	20 LRRC37A2
2.01E-08	0.451038492	0.784	0.497	0.00064563	20 DOCK7
9.25E-09	0.448045687	0.773	0.448	0.000297011	20 HDAC4
3.35E-19	0.447641172	0.523	0.158	1.07E-14	20 TBX2
3.35E-07	0.447403327	0.727	0.437	0.010764424	20 SRGAP3
1.59E-11	0.445179046	0.716	0.363	5.11E-07	20 HIP1R
1.81E-23	0.445058809	0.807	0.263	5.82E-19	20 TINAG
3.73E-05	0.443057334	0.364	0.199	1	20 ZNF43
3.08E-14	0.442949835	0.557	0.213	9.89E-10	20 SLC38A11
1.16E-10	0.442375147	0.659	0.328	3.71E-06	20 SNX2
3.05E-23	0.441518708	0.727	0.246	9.80E-19	20 RNF212B
4.02E-21	0.441171734	0.716	0.232	1.29E-16	20 ASS1
2.52E-18	0.439804815	0.727	0.263	8.10E-14	20 AC027288.3
9.36E-09	0.439182779	1	0.878	0.000300466	20 PKHD1
4.33E-09	0.436764437	0.511	0.259	0.000139027	20 DMAC2L

6.16E-14	0.436147353	0.659	0.266	1.98E-09	20 EHHADH
6.85E-06	0.435296342	0.636	0.405	0.220065148	20 PHACTR2
1.84E-12	0.433344496	0.761	0.38	5.92E-08	20 CDH16
5.67E-07	0.432993129	0.864	0.616	0.018218384	20 LRRFIP1
9.44E-17	0.432434445	0.693	0.271	3.03E-12	20 SLC7A8
3.12E-14	0.431254396	0.557	0.205	1.00E-09	20 RERGL
1.40E-12	0.431078902	0.875	0.488	4.49E-08	20 NDRG1
7.43E-06	0.430844062	0.625	0.379	0.238562898	20 CLCN3
8.08E-22	0.430638198	0.636	0.183	2.59E-17	20 PLG
8.37E-09	0.430609561	0.909	0.574	0.000268784	20 SSH2
1.16E-05	0.429607729	0.273	0.123	0.371804615	20 LYPD6B
4.06E-07	0.429237517	0.398	0.184	0.01303685	20 AL365295.1
2.13E-13	0.427776286	0.295	0.081	6.86E-09	20 MOCOS
2.06E-09	0.426469252	0.341	0.127	6.62E-05	20 SCCPDH
4.96E-23	0.423746866	0.523	0.134	1.59E-18	20 SLC17A4
1.29E-20	0.423703442	0.284	0.054	4.13E-16	20 SHCBP1
4.24E-07	0.421952996	0.705	0.428	0.013610472	20 SKAP2
1.58E-10	0.420621474	0.42	0.16	5.09E-06	20 FAT4
1.09E-07	0.420081609	0.727	0.45	0.003513302	20 MTMR10
3.80E-07	0.418380675	0.739	0.494	0.012202612	20 SMARCA2
7.65E-12	0.417341581	0.443	0.163	2.46E-07	20 TRERF1
2.96E-10	0.416425095	0.352	0.125	9.50E-06	20 AFAP1L2
0.00076705	0.415463141	0.682	0.468	1	20 RBBP8
1.31E-09	0.414750558	0.489	0.215	4.21E-05	20 HOXA3
5.17E-18	0.414292165	0.636	0.217	1.66E-13	20 XYLB
6.01E-09	0.414271816	0.364	0.145	0.000192973	20 LIPH
1.89E-09	0.412151477	0.92	0.615	6.07E-05	20 SRRM2
4.08E-08	0.410888377	0.545	0.27	0.001311792	20 RPH3AL
8.38E-15	0.410887769	0.409	0.126	2.69E-10	20 SCPEP1
7.46E-22	0.410734826	0.989	0.395	2.40E-17	20 ACSM2A
5.10E-08	0.410048792	0.909	0.607	0.00163705	20 CCDC198
7.65E-10	0.409604111	0.909	0.524	2.46E-05	20 OPHN1
1.06E-21	0.409277157	0.989	0.459	3.39E-17	20 CUBN
5.46E-11	0.408613145	0.341	0.115	1.75E-06	20 GABRA2
4.21E-08	0.408326515	0.75	0.444	0.001351197	20 MYH10
4.29E-17	0.408111919	0.352	0.09	1.38E-12	20 AC013470.2
1.17E-08	0.408048837	0.875	0.555	0.000375259	20 TRAK1
1.16E-12	0.40750748	0.784	0.381	3.72E-08	20 FRY
1.54E-12	0.407095042	0.511	0.2	4.96E-08	20 PFKFB3
4.92E-09	0.40577059	0.886	0.543	0.000157951	20 PAX2
3.13E-24	0.404717726	0.83	0.254	1.01E-19	20 GLYAT
2.51E-06	0.404060795	0.511	0.268	0.080679188	20 KITLG
3.70E-06	0.403010758	0.432	0.223	0.118784029	20 SPAG17
2.89E-10	0.402869907	0.5	0.2	9.27E-06	20 LINC01788
3.60E-07	0.40243507	0.636	0.365	0.011555598	20 SPATS2
7.25E-05	0.401224471	0.5	0.29	1	20 SEMA6A
5.17E-09	0.400846163	0.489	0.221	0.000165981	20 B4GALNT3
1.68E-09	0.400791304	0.795	0.456	5.39E-05	20 PACSIN2
3.70E-07	0.400350834	0.545	0.299	0.01187371	20 SLC11A2
1.01E-10	0.399196972	0.625	0.288	3.25E-06	20 L2HGDH
2.39E-15	0.398904893	0.466	0.155	7.68E-11	20 NAA20

2.34E-05	0.397382127	0.534	0.321	0.750690318	20 RAB11FIP2
1.34E-08	0.396649931	0.455	0.207	0.00043114	20 SLC25A29
1.29E-06	0.396285993	0.33	0.148	0.041329877	20 HBG2
2.33E-13	0.39569852	0.614	0.245	7.48E-09	20 ARSB
8.77E-09	0.395457499	0.92	0.61	0.000281727	20 ULK4
3.23E-09	0.395101789	0.659	0.314	0.00010374	20 GPRIN3
9.65E-08	0.39493751	0.659	0.359	0.003098381	20 EMX2OS
7.86E-07	0.393313036	0.852	0.571	0.025252002	20 ZNF704
2.52E-07	0.393025505	0.841	0.561	0.008083095	20 ADGRL2
2.59E-10	0.392068804	0.716	0.349	8.33E-06	20 SLC16A10
5.58E-26	0.390601244	0.898	0.278	1.79E-21	20 SLC13A3
6.41E-06	0.3898761	0.682	0.415	0.205765582	20 NEK11
3.92E-11	0.388439347	0.398	0.146	1.26E-06	20 HOXD10
4.10E-12	0.385415963	0.273	0.074	1.32E-07	20 LINC02649
5.38E-22	0.384201755	0.875	0.298	1.73E-17	20 SLC17A1
1.87E-26	0.383475308	0.864	0.255	6.01E-22	20 PAH
4.99E-11	0.382025081	0.784	0.391	1.60E-06	20 SHROOM4
1.66E-11	0.380986105	0.477	0.189	5.34E-07	20 TWSG1
3.09E-06	0.379014829	0.909	0.675	0.099194116	20 MAP4K3
2.69E-07	0.378303252	0.864	0.537	0.00862487	20 MRPL33
7.51E-08	0.377968924	0.42	0.189	0.002413549	20 HSPA1B
1.01E-06	0.376581432	0.375	0.18	0.032505451	20 TMEM50B
6.88E-09	0.376339925	0.886	0.523	0.000220855	20 DPY19L2
1.74E-15	0.374832894	0.977	0.606	5.60E-11	20 RAB11FIP3
1.03E-10	0.374319018	0.557	0.247	3.32E-06	20 AC127526.3
1.00E-20	0.374097225	0.693	0.215	3.21E-16	20 ALDOB
7.52E-08	0.373377201	0.557	0.271	0.002416743	20 RAPH1
5.41E-05	0.372607732	0.58	0.363	1	20 HSP90AA1
3.59E-05	0.371308842	0.648	0.418	1	20 RNF180
1.68E-06	0.369771111	0.841	0.587	0.05382029	20 WWC1
1.21E-20	0.369493404	0.659	0.195	3.88E-16	20 DPYS
4.04E-10	0.36914415	0.443	0.178	1.30E-05	20 PRTG
8.41E-05	0.368361483	0.614	0.362	1	20 WDSUB1
2.65E-06	0.36801715	0.716	0.442	0.08517618	20 TSGA10
1.31E-05	0.367748941	0.375	0.184	0.419429625	20 ADAMTSL3
3.94E-07	0.366146797	0.932	0.628	0.012639361	20 LINC02532
5.84E-13	0.365217971	0.33	0.096	1.87E-08	20 SMIM5
2.08E-23	0.364934794	0.534	0.136	6.68E-19	20 AC010451.1
5.18E-09	0.364644949	0.83	0.484	0.000166299	20 ARHGEF35-AS1
2.64E-11	0.364020715	0.352	0.117	8.47E-07	20 TLE3
3.23E-10	0.363569799	0.705	0.339	1.04E-05	20 FREM2
0.00034052	0.360669066	0.295	0.158	1	20 AC004540.1
3.87E-07	0.359699949	0.557	0.303	0.012424054	20 ZNF75D
2.32E-07	0.356768991	0.636	0.343	0.007445183	20 BLNK
3.76E-24	0.354310876	0.261	0.041	1.21E-19	20 ELF5
0.00040372	0.35417244	0.261	0.127	1	20 H2AC6
1.37E-07	0.354036565	0.818	0.497	0.004411831	20 TBC1D19
2.64E-07	0.35396859	0.25	0.092	0.008476354	20 IDI1
7.14E-22	0.353627032	0.523	0.137	2.29E-17	20 FUT6
2.24E-09	0.352621226	0.284	0.096	7.20E-05	20 PNP
1.04E-07	0.351097144	0.716	0.394	0.003329297	20 TOX

8.60E-07	0.350856439	0.83	0.51	0.02760582	20 EPB41L3
5.38E-07	0.350302667	0.773	0.507	0.017271623	20 MIR3936HG
1.98E-10	0.349209934	0.443	0.172	6.34E-06	20 COL4A6
1.97E-16	0.348301023	0.33	0.082	6.32E-12	20 TBX2-AS1
7.46E-11	0.348155803	0.364	0.125	2.40E-06	20 TFAP2A
1.33E-08	0.348028813	0.307	0.114	0.000425651	20 DCPS
0.00012258	0.347509472	0.284	0.144	1	20 ZNF350-AS1
0.00121177	0.346888998	0.443	0.281	1	20 TERF2IP
1.52E-09	0.345728449	0.75	0.41	4.87E-05	20 DMXL2
1.02E-08	0.345325988	0.511	0.233	0.000328361	20 ARSJ
3.73E-12	0.345142203	0.307	0.088	1.20E-07	20 LINC01349
4.89E-08	0.344823553	0.659	0.369	0.001569237	20 LAMTOR5-AS1
4.52E-09	0.344507399	0.83	0.473	0.000145161	20 EPB41L1
0.00029019	0.344292478	0.92	0.757	1	20 BABAM2
2.32E-09	0.343586095	0.591	0.283	7.44E-05	20 AFMID
1.04E-07	0.343124517	0.557	0.285	0.00334078	20 TEKT4P2
1.69E-06	0.343010735	0.807	0.537	0.054414454	20 C11orf49
1.99E-06	0.342778239	1	0.886	0.063935508	20 IMM2P2L
7.08E-07	0.342182276	0.898	0.573	0.022734658	20 MRTFB
1.67E-08	0.341826489	0.795	0.442	0.000534972	20 PRDM16
1.01E-05	0.341462086	1	0.85	0.32584634	20 LRMDA
5.24E-07	0.341444464	0.989	0.771	0.016842071	20 NPIP5
5.21E-14	0.341048468	0.261	0.062	1.67E-09	20 GDNF-AS1
1.70E-06	0.34101402	0.364	0.17	0.054680654	20 C3orf52
1.51E-08	0.339617266	0.852	0.525	0.000485476	20 PAX8
1.71E-06	0.339006831	1	0.866	0.055047345	20 ANK3
1.39E-11	0.338721027	0.58	0.244	4.46E-07	20 PIGQ
9.48E-13	0.338627362	0.261	0.068	3.05E-08	20 AC005746.2
7.73E-10	0.338470909	0.761	0.405	2.48E-05	20 CMYA5
6.61E-05	0.337630797	0.42	0.241	1	20 RGD2
1.90E-06	0.336371449	0.591	0.324	0.061074355	20 CCDC178
1.07E-05	0.335928188	0.727	0.479	0.344770677	20 DOP1A
3.07E-05	0.335469862	0.477	0.276	0.984849774	20 ZNF236
6.52E-07	0.335262378	0.42	0.199	0.020955609	20 LINC01006
2.15E-06	0.331986057	0.284	0.118	0.069016587	20 AL355499.1
0.00096448	0.331819759	0.398	0.246	1	20 TGFBR1
1.59E-07	0.331356137	0.977	0.711	0.005106267	20 PRKCA
0.00034486	0.331348023	0.648	0.445	1	20 TAB2
0.00011673	0.331128983	0.364	0.202	1	20 PSMG2
1.17E-06	0.330994681	1	0.803	0.037623247	20 SNHG14
6.31E-12	0.329439984	0.273	0.077	2.03E-07	20 AL161457.2
1.48E-08	0.329352832	0.591	0.298	0.000473886	20 STX3
9.01E-09	0.328199409	0.705	0.377	0.000289252	20 AC004593.2
9.98E-24	0.327731971	0.773	0.231	3.21E-19	20 SLC22A6
3.31E-19	0.327451432	0.432	0.111	1.06E-14	20 SLC6A19
5.53E-08	0.327167002	0.795	0.42	0.001774975	20 COL4A5
9.35E-12	0.326774659	0.511	0.2	3.00E-07	20 ADGRF1
5.04E-10	0.324894513	0.602	0.277	1.62E-05	20 NQO2
8.06E-06	0.324891647	0.523	0.294	0.258727316	20 CDH1
2.72E-15	0.323145842	0.523	0.175	8.72E-11	20 SPATA22
2.40E-07	0.322633091	0.295	0.115	0.007698243	20 CACNA1E

3.52E-09	0.322612363	0.773	0.423	0.000113137	20	EPS8L2
2.15E-07	0.321766354	0.807	0.506	0.006910365	20	DMGDH
9.59E-07	0.321623392	0.648	0.366	0.03081206	20	PPARG
9.05E-07	0.320541065	0.83	0.492	0.029072395	20	HOXB3
1.42E-05	0.320364798	1	0.786	0.454460883	20	NAALADL2
1.27E-12	0.319689359	0.659	0.271	4.07E-08	20	RASSF4
2.71E-06	0.319598303	0.886	0.577	0.086974845	20	HDAC8
6.07E-07	0.319501772	0.898	0.59	0.019491323	20	HIBCH
2.85E-07	0.319119157	0.739	0.456	0.009161908	20	ARHGEF10L
2.48E-11	0.317951695	0.443	0.167	7.96E-07	20	PGPEP1
7.35E-06	0.315989804	0.943	0.655	0.235970671	20	SH3RF1
1.59E-08	0.315641278	0.568	0.275	0.00051099	20	NHSL1
2.07E-11	0.31560245	0.625	0.266	6.65E-07	20	LSP1P4
1.94E-10	0.315196787	0.682	0.342	6.24E-06	20	PDPR
2.47E-10	0.315050544	0.284	0.087	7.94E-06	20	STXBP6
6.21E-16	0.313842088	0.477	0.146	2.00E-11	20	CLEC18B
1.51E-05	0.312531279	0.67	0.417	0.484939193	20	LINC01362
2.06E-06	0.312244142	0.989	0.838	0.066209757	20	SNX29
6.78E-07	0.311863105	0.716	0.425	0.021759324	20	BICD1
0.00016734	0.311202203	0.693	0.48	1	20	MARCHF7
1.21E-06	0.311099786	0.943	0.651	0.038811515	20	NFIB
6.69E-06	0.310143935	0.511	0.279	0.214898468	20	GPR39
2.08E-06	0.309997955	0.886	0.583	0.066849012	20	TFDP2
3.28E-05	0.309845375	0.398	0.211	1	20	MAP3K15
1.69E-06	0.309438674	0.693	0.401	0.05432639	20	LRRC28
4.13E-05	0.309304582	0.591	0.376	1	20	RAD9A
2.41E-06	0.309147968	0.727	0.456	0.077301645	20	ZNF586
5.57E-10	0.309046421	0.443	0.17	1.79E-05	20	FIGNL1
6.61E-05	0.309016561	0.932	0.725	1	20	KANSL1L
4.98E-07	0.308779855	0.568	0.308	0.01598955	20	AC005670.2
1.86E-05	0.308507679	0.795	0.54	0.597938582	20	CYRIB
3.22E-06	0.307299733	0.636	0.378	0.103299941	20	HMGN3
1.42E-06	0.307145408	0.557	0.294	0.045620048	20	CYP7B1
6.10E-07	0.306455747	0.466	0.235	0.01957992	20	TBC1D16
8.16E-12	0.306117438	0.466	0.174	2.62E-07	20	ABO
1.20E-09	0.304680599	0.273	0.087	3.84E-05	20	AQP7
3.90E-08	0.304571873	0.33	0.128	0.001252972	20	KCP
3.80E-06	0.30416509	0.318	0.141	0.121895598	20	GPR132
4.04E-12	0.304069977	0.636	0.264	1.30E-07	20	Z93403.1
3.46E-06	0.303980185	0.739	0.462	0.111184462	20	FAM107B
0.00023099	0.303776446	0.568	0.36	1	20	SGPP2
3.60E-06	0.303648349	0.557	0.297	0.11565036	20	MAL
0.00219179	0.301949624	0.545	0.375	1	20	SMIM8
1.26E-09	0.301305781	0.375	0.139	4.06E-05	20	DLGAP2
3.95E-07	0.300178259	0.443	0.213	0.012679503	20	SNTB2
1.59E-05	0.299783842	0.432	0.232	0.509784327	20	GNPAT
6.10E-07	0.298220366	0.318	0.138	0.019597739	20	PRMT1
2.12E-12	0.297934138	0.432	0.149	6.81E-08	20	AC127526.2
2.32E-10	0.297245706	0.409	0.154	7.44E-06	20	PIEZO1
2.27E-06	0.296475302	0.636	0.354	0.072766849	20	CSGALNACT1
5.06E-05	0.296359144	0.705	0.478	1	20	CCDC7

7.23E-21	0.295981792	0.83	0.284	2.32E-16	20 ACSF2
9.44E-05	0.295724896	0.455	0.265	1	20 SRSF6
7.82E-18	0.295665984	0.739	0.267	2.51E-13	20 EBNA1BP2
5.93E-07	0.295441486	0.443	0.215	0.019032659	20 MTMR8
4.26E-06	0.295413713	0.398	0.192	0.136742171	20 BTG2
6.32E-06	0.295290881	0.784	0.525	0.202997	20 NEMF
7.15E-06	0.295241954	0.591	0.331	0.229667652	20 ZNF98
4.16E-13	0.29496935	0.591	0.217	1.34E-08	20 AL589669.1
6.09E-09	0.294789009	0.398	0.156	0.000195744	20 SYNDIG1
0.00015686	0.294334307	0.489	0.3	1	20 RTN3
0.00285944	0.293512368	0.25	0.14	1	20 ST3GAL4
9.38E-08	0.292828835	0.341	0.141	0.003011753	20 LINC01106
9.10E-06	0.29250626	0.739	0.475	0.292194962	20 HOXD3
5.45E-06	0.292486293	0.318	0.151	0.175128902	20 TMCO1
7.90E-09	0.292432737	0.341	0.129	0.00025388	20 KYAT1
1.15E-05	0.291544825	0.432	0.232	0.369786649	20 RRAGB
2.57E-09	0.2912887	0.295	0.101	8.25E-05	20 FAM241A
2.09E-09	0.291253912	0.659	0.312	6.70E-05	20 CACHD1
1.10E-05	0.291084204	0.352	0.175	0.352875086	20 FZD4
1.36E-07	0.290803823	0.284	0.107	0.004375077	20 FAM3B
3.45E-06	0.290435121	0.773	0.487	0.110930377	20 AL591684.2
1.64E-07	0.290365968	0.295	0.116	0.005266357	20 SLC4A1AP
5.45E-10	0.289759408	0.375	0.136	1.75E-05	20 SPRY4-AS1
3.35E-07	0.288591669	0.352	0.154	0.010751422	20 MUC20P1
3.13E-24	0.288243773	0.784	0.227	1.00E-19	20 AGXT2
9.64E-11	0.288068139	0.602	0.265	3.10E-06	20 LSP1P5
5.10E-06	0.287885062	0.568	0.317	0.163684219	20 SH3BGRL
3.13E-06	0.287361498	0.648	0.381	0.100672988	20 CWC27
4.27E-06	0.28735065	0.375	0.18	0.137177529	20 KCNC3
0.00028602	0.287209865	0.307	0.165	1	20 AC011043.1
1.92E-07	0.28684469	0.875	0.53	0.006168239	20 LSM14A
0.00010041	0.286698464	0.466	0.269	1	20 SLC22A4
9.99E-06	0.28572224	0.773	0.523	0.320698215	20 ARL17B
5.47E-06	0.285246553	0.591	0.33	0.175521693	20 PTPN21
3.22E-06	0.285209733	0.602	0.34	0.103329476	20 CREM
2.52E-16	0.284660733	0.602	0.198	8.09E-12	20 SLC28A1
2.82E-06	0.284222474	0.557	0.307	0.090582879	20 CHPT1
0.00014853	0.283776058	0.261	0.127	1	20 WDR89
2.70E-08	0.283310018	0.273	0.095	0.000867714	20 RASAL1
0.00022247	0.282763135	0.648	0.437	1	20 LARP1
0.00040481	0.282442462	0.761	0.54	1	20 INVS
6.08E-06	0.281712353	0.659	0.39	0.195241325	20 EFCAB2
7.30E-06	0.281521148	0.682	0.416	0.234595183	20 NFX1
2.56E-06	0.281360309	0.25	0.1	0.082132351	20 RNF128
3.65E-10	0.280247175	0.364	0.129	1.17E-05	20 TTF1
0.00077044	0.279552033	0.386	0.23	1	20 SOBP
1.83E-07	0.279506455	0.432	0.202	0.005870108	20 CAPRN2
8.98E-06	0.27943463	0.682	0.429	0.288359321	20 GNPTAB
2.15E-06	0.279317825	0.807	0.51	0.068971558	20 KIFC3
5.32E-05	0.279261289	0.875	0.596	1	20 NBEA
2.54E-05	0.279051212	0.966	0.77	0.814520754	20 NPIP4

4.52E-06	0.278588085	0.295	0.13	0.145294928	20 OR2A20P
1.35E-12	0.278272699	0.557	0.202	4.34E-08	20 HNF4A
0.0013515	0.278261706	0.489	0.328	1	20 IP6K1
2.91E-05	0.278108999	0.602	0.341	0.935735262	20 AC034195.1
5.03E-06	0.278035596	0.841	0.586	0.16155785	20 PARGP1
0.00011606	0.2780223	0.489	0.289	1	20 CEP162
2.60E-09	0.277987351	0.261	0.082	8.36E-05	20 AC024230.1
4.60E-09	0.277669894	0.352	0.134	0.000147742	20 EPOR
8.19E-06	0.277318908	0.932	0.625	0.263183993	20 PPP1R9A
1.03E-07	0.276932317	0.818	0.472	0.003316186	20 TNRC18
1.56E-08	0.276782168	0.966	0.684	0.000500594	20 WNK1
2.03E-06	0.276734327	0.261	0.105	0.065327165	20 GPR158
7.05E-08	0.276688817	0.42	0.19	0.002264932	20 NPHP1
2.41E-07	0.276585651	0.386	0.17	0.007752204	20 NIPAL1
3.33E-06	0.276557776	0.852	0.518	0.107060672	20 PCLO
3.88E-10	0.276544581	0.443	0.179	1.25E-05	20 SIGIRR
1.63E-06	0.275446715	0.466	0.242	0.052271994	20 TTC7A
0.00026951	0.27491025	0.284	0.147	1	20 IQCG
1.46E-05	0.274886417	0.739	0.447	0.470489834	20 FAT1
4.77E-06	0.274823433	0.307	0.136	0.153109121	20 AC246817.1
3.10E-15	0.274728059	0.727	0.303	9.95E-11	20 PCDH15
0.00013003	0.274720525	0.841	0.608	1	20 CD2AP
2.64E-08	0.274584483	0.909	0.59	0.00084837	20 AC068587.4
0.00026505	0.274100862	0.591	0.393	1	20 PARD6B
0.00010876	0.273882442	0.932	0.679	1	20 AC005208.1
3.78E-07	0.273463468	0.534	0.271	0.012132702	20 ARMCX5-GPRA
1.34E-09	0.273390344	0.648	0.308	4.32E-05	20 CYS1
4.00E-07	0.273355839	1	0.817	0.012856777	20 NEDD4L
0.00022734	0.273199756	0.909	0.69	1	20 JPX
3.29E-06	0.272620794	0.477	0.257	0.105681551	20 METTL9
4.41E-14	0.272483207	0.58	0.213	1.42E-09	20 MLXIPL
0.00088955	0.272388662	0.727	0.541	1	20 SHPRH
3.41E-05	0.272215275	0.932	0.631	1	20 CAMKMT
8.86E-11	0.272163937	0.375	0.13	2.84E-06	20 MGC27382
2.03E-05	0.272138029	0.716	0.453	0.651952324	20 NPHP3-ACAD11
2.62E-10	0.27190198	0.693	0.34	8.41E-06	20 CCDC200
6.09E-08	0.271773764	0.42	0.183	0.001954375	20 KLHL8
1.39E-06	0.271689947	0.409	0.192	0.044556516	20 MBOAT1
3.37E-05	0.271429845	0.409	0.222	1	20 RGPDI
1.69E-06	0.269906471	0.307	0.131	0.054426287	20 WASF3
2.67E-13	0.269855461	0.261	0.063	8.56E-09	20 LINC02128
1.09E-06	0.269768202	0.58	0.302	0.035119372	20 FOSL2
1.18E-05	0.269258722	0.477	0.262	0.377846649	20 CHSY1
1.04E-05	0.269047007	0.773	0.469	0.33360071	20 PRR5-ARHGAP8
0.00037388	0.268973316	0.307	0.163	1	20 KCNK1
3.28E-05	0.26787288	0.409	0.222	1	20 PPM1K
0.00108144	0.267846357	0.273	0.145	1	20 BRINP3
2.85E-16	0.267545955	0.455	0.133	9.14E-12	20 SLC22A11
8.12E-07	0.266855365	0.33	0.142	0.026066525	20 NPIP6
0.00012272	0.266472681	0.341	0.188	1	20 BRD8
9.18E-06	0.2661573	0.443	0.227	0.294807604	20 ZC4H2

6.71E-06	0.266103819	0.727	0.448	0.215653515	20 STXBP5
0.00019079	0.266045232	0.261	0.129	1	20 AC025263.2
2.48E-08	0.265933629	0.92	0.573	0.000796078	20 NEBL
3.63E-05	0.265904704	0.432	0.234	1	20 RAB17
2.58E-09	0.265605123	0.375	0.142	8.27E-05	20 RHCG
3.02E-05	0.264816068	0.523	0.298	0.970995848	20 KDM5B
4.86E-10	0.264325332	0.568	0.241	1.56E-05	20 LINGO2
8.67E-12	0.263991959	0.398	0.136	2.78E-07	20 AC011287.1
7.30E-08	0.263539734	0.602	0.317	0.002345239	20 ERBB2
2.15E-07	0.263009477	0.716	0.395	0.006908857	20 DIAPH2
3.32E-06	0.262479578	1	0.803	0.106759147	20 PLEKHA5
3.30E-05	0.261864908	0.625	0.365	1	20 LMCD1-AS1
0.00041523	0.261451968	0.443	0.266	1	20 ZNF235
6.31E-15	0.26133345	0.614	0.214	2.03E-10	20 AK4
4.62E-05	0.261256091	0.375	0.204	1	20 RPE
1.12E-07	0.261191154	0.455	0.208	0.003596645	20 PECR
1.59E-05	0.259902902	0.818	0.538	0.511079005	20 LRRC37A3
4.86E-09	0.259874546	0.398	0.157	0.000156178	20 FAM149A
5.53E-05	0.259502881	0.727	0.457	1	20 MSH3
8.78E-11	0.259152334	0.273	0.08	2.82E-06	20 SMARCD3
2.55E-18	0.259103528	0.398	0.1	8.18E-14	20 SLC39A5
1.91E-16	0.258574105	0.375	0.097	6.15E-12	20 ENPP6
0.00037764	0.258085671	0.33	0.185	1	20 TERF1
1.44E-05	0.257820952	0.295	0.136	0.461190075	20 ZNF100
2.21E-06	0.257385041	0.727	0.429	0.070906353	20 AC093423.3
0.00015852	0.25690993	0.25	0.117	1	20 CFAP47
1.02E-09	0.256453035	0.455	0.173	3.28E-05	20 GDA
1.94E-23	0.256318398	0.705	0.194	6.22E-19	20 SLC36A2
4.28E-05	0.255170272	0.977	0.866	1	20 PATJ
7.61E-06	0.254861045	0.341	0.165	0.244513771	20 URGCP
4.05E-08	0.254853527	0.432	0.188	0.001299979	20 RECQL5
4.64E-05	0.254837025	0.784	0.519	1	20 HNRNPU
7.50E-05	0.254610516	0.443	0.257	1	20 B4GALT1
3.95E-06	0.254552571	0.318	0.143	0.126879016	20 SPTBN2
6.00E-05	0.254239979	0.83	0.575	1	20 NLK
0.00011964	0.253668448	0.42	0.238	1	20 ANKS1B
0.00051494	0.253147706	0.909	0.662	1	20 SAMD12
1.87E-18	0.252769033	0.864	0.346	6.02E-14	20 UGT1A8
4.65E-06	0.252491454	0.25	0.1	0.149426085	20 PLA2G4F
2.93E-10	0.252383821	0.409	0.154	9.42E-06	20 EMX2
8.94E-19	0.252215188	0.477	0.131	2.87E-14	20 AMN
0.00069981	0.251764276	0.989	0.822	1	20 TBC1D5
1.10E-07	0.2511776	0.307	0.119	0.00354467	20 AC127526.1
6.42E-15	0.250733044	0.307	0.076	2.06E-10	20 XPNPEP2
1.77E-06	0.250524668	0.341	0.152	0.056995235	20 POLR2H
2.19E-13	0.250113629	0.432	0.137	7.03E-09	20 LINC02275

Table S2. Differentially expressed genes in scRNA-seq data ($\log_2|\text{fold change}|>0.25$ and adjusted p-value<0.05)

gene	p-value	avg log ₂ FC	pct.1	pct.2	adjust p-value	cell type
SLC12A3	1.30E-61	-0.382273209	1	0.129	2.61E-58	PODO
LINGO2	1.32E-22	-0.34676408	1	0.294	2.64E-19	PODO
KCNIP1	8.70E-20	-0.334932087	0.996	0.304	1.74E-16	PODO
FGF13	9.91E-09	-0.260470669	0.996	0.417	1.98E-05	PODO
PELI1	3.26E-65	0.252984475	0.996	0.117	6.51E-62	PODO
ACSM2B	4.08E-32	-0.557811443	0.993	0.236	8.15E-29	PODO
NALCN	8.15E-14	0.309125411	0.989	0.411	1.63E-10	PODO
AC018742.1	4.09E-15	0.452736299	0.982	0.424	8.19E-12	PODO
CCN2	8.14E-10	0.365970116	0.968	0.472	1.63E-06	PODO
CLNK	1.41E-36	-0.567228947	0.931	0.159	2.81E-33	PODO
SLIT2	8.51E-18	-0.294436933	0.928	0.275	1.70E-14	PODO
ACTB	7.74E-11	0.664662266	0.906	0.453	1.55E-07	PODO
SLIT3	5.47E-17	0.255647006	0.892	0.272	1.09E-13	PODO
BANK1	2.42E-14	0.338276948	0.881	0.285	4.84E-11	PODO
ADGRF5	6.93E-23	-0.37593369	0.877	0.184	1.39E-19	PODO
SNTB1	3.84E-19	-0.263506864	0.845	0.175	7.68E-16	PODO
ATP6V0D2	1.90E-13	-0.307086034	0.801	0.175	3.80E-10	PODO
ACSM2A	3.97E-06	-0.471818938	0.798	0.269	0.007945421	PODO
PMEP A1	4.90E-06	-0.262457361	0.552	0.388	0.009799083	PODO
SLC26A7	3.58E-07	-0.830362513	0.542	0.346	0.000715405	PODO
DCN	2.66E-10	-0.400619201	0.513	0.472	5.32E-07	PODO
SYN3	1.78E-07	0.455770989	0.469	0.324	0.000355011	PODO
SLC5A12	1.67E-06	-0.287440639	0.455	0.155	0.003346585	PODO
PLCB1	3.09E-07	0.305965271	0.451	0.22	0.000618664	PODO
KCNIP4	5.94E-12	-0.372446526	0.44	0.34	1.19E-08	PODO
LRP2	1.69E-11	-0.259523329	0.437	0.304	3.39E-08	PODO
HELLPAR	3.03E-10	0.475109868	0.386	0.087	6.06E-07	PODO
UNC5D	4.93E-18	0.461077247	0.321	0.097	9.85E-15	PODO
TEX41	2.36E-24	-0.29856002	0.31	0.172	4.72E-21	PODO
STAC	1.72E-37	-0.27385747	0.242	0.23	3.45E-34	PODO
LHFPL3	3.58E-46	-0.282512962	0.199	0.188	7.16E-43	PODO
GRIN2B	4.40E-45	0.310651519	0.191	0.052	8.81E-42	PODO
GLRA3	2.58E-68	0.303478562	0.108	0.013	5.16E-65	PODO
ATP10A	1.68E-09	-0.415073429	1	0.404	3.35E-06	PEC
GADD45B	3.11E-21	0.300705415	1	0.344	6.23E-18	PEC
PDK4	2.63E-12	-0.278459482	1	0.401	5.25E-09	PEC
GLUL	2.99E-08	-0.507249244	0.994	0.423	5.97E-05	PEC
KCTD8	2.84E-12	-0.457854585	0.994	0.372	5.69E-09	PEC
RASD1	2.79E-33	-0.409516348	0.991	0.237	5.59E-30	PEC
RETREG1	1.83E-06	0.398658481	0.985	0.577	0.003651286	PEC
MT2A	1.32E-39	-0.348805298	0.985	0.205	2.64E-36	PEC
TENM2	6.77E-18	-0.267592897	0.985	0.331	1.35E-14	PEC
SQSTM1	5.37E-24	0.332927018	0.981	0.312	1.07E-20	PEC
PRKCB	1.97E-32	-0.292153655	0.981	0.233	3.94E-29	PEC
RYR3	3.54E-06	-0.43602208	0.978	0.432	0.007087008	PEC
TCF7L1	3.12E-08	-0.267831458	0.978	0.413	6.24E-05	PEC
MICAL2	3.18E-12	0.459807298	0.969	0.442	6.35E-09	PEC
F5	2.28E-05	-0.360432022	0.969	0.448	0.045562283	PEC
HMGCS1	1.68E-09	-0.272569422	0.966	0.407	3.35E-06	PEC
PLOD2	2.73E-07	0.822185214	0.96	0.533	0.000546817	PEC
CCN1	9.44E-24	-0.550438216	0.96	0.265	1.89E-20	PEC
AC109466.1	2.58E-13	-1.12914806	0.954	0.334	5.17E-10	PEC
PTPRO	1.38E-21	-0.260813634	0.951	0.287	2.76E-18	PEC
IGFBP4	1.27E-13	0.417324592	0.948	0.413	2.55E-10	PEC
GRIN2A	7.17E-37	-0.269298585	0.944	0.183	1.43E-33	PEC
ST6GAL1	4.98E-08	0.290751804	0.935	0.438	9.96E-05	PEC
ADCY8	2.10E-39	0.419501385	0.929	0.17	4.19E-36	PEC
AC008415.1	3.82E-22	-0.9803749	0.926	0.24	7.63E-19	PEC

NETO1	4.16E-41	-0.261301688	0.92	0.145	8.32E-38 PEC
MYO1B	2.82E-08	0.401852345	0.91	0.423	5.63E-05 PEC
EYA4	1.30E-18	-0.371630932	0.898	0.237	2.59E-15 PEC
CRISPLD2	7.03E-13	0.601004327	0.895	0.369	1.41E-09 PEC
FTCD	3.80E-39	-0.289987055	0.892	0.123	7.59E-36 PEC
PPP1R3C	1.47E-53	-0.345514504	0.88	0.073	2.95E-50 PEC
BMP6	1.28E-30	-0.454752514	0.873	0.142	2.55E-27 PEC
SNTG2	2.30E-10	0.271096591	0.867	0.328	4.61E-07 PEC
EPS8	2.81E-07	0.446249114	0.852	0.461	0.000562646 PEC
EIF2AK3	8.61E-09	0.537494816	0.849	0.356	1.72E-05 PEC
KHDRBS3	6.54E-13	0.400221187	0.849	0.278	1.31E-09 PEC
LINC01876	3.54E-27	0.313133875	0.843	0.142	7.07E-24 PEC
ATP1B3	2.44E-12	0.268099268	0.83	0.259	4.88E-09 PEC
LINC00621	3.84E-22	0.529228605	0.815	0.155	7.68E-19 PEC
TNFRSF21	1.04E-20	0.255177598	0.812	0.151	2.09E-17 PEC
AC087633.2	8.87E-19	0.273168416	0.802	0.158	1.77E-15 PEC
MMP26	2.26E-30	-0.279081881	0.799	0.073	4.52E-27 PEC
TP63	3.32E-12	0.302901732	0.793	0.205	6.64E-09 PEC
MIOX	1.02E-18	-0.29960028	0.787	0.123	2.03E-15 PEC
SLC12A1	4.18E-10	-0.277798643	0.775	0.196	8.36E-07 PEC
SLC13A3	3.74E-14	-0.261163993	0.765	0.136	7.47E-11 PEC
SLC8A1-AS1	9.03E-07	-0.28266517	0.747	0.208	0.001806225 PEC
HS6ST3	1.01E-05	-0.285642373	0.704	0.161	0.020125041 PEC
MGP	1.22E-05	-0.28248581	0.673	0.126	0.024426794 PEC
CNTNAP5	1.14E-08	0.256610966	0.66	0.06	2.27E-05 PEC
ANKRD1	5.09E-16	-0.279911766	0.657	0.05	1.02E-12 PEC
IL32	1.37E-05	0.283055971	0.651	0.104	0.027337421 PEC
MIR2052HG	1.03E-07	-0.271700983	0.651	0.063	0.000206101 PEC
AJ006995.1	4.12E-06	0.345824641	0.642	0.073	0.008234733 PEC
ALPK2	4.33E-06	-0.405791664	0.602	0.533	0.00865889 PEC
MROH9	8.16E-07	0.299389154	0.577	0.025	0.001632729 PEC
CLSTN2	1.61E-05	-0.260892543	0.519	0.322	0.032279843 PEC
PCDH15	5.82E-06	-0.379647359	0.494	0.227	0.01164148 PEC
KCNIP4	4.33E-08	-0.296051769	0.475	0.259	8.65E-05 PEC
ACSM3	7.34E-08	0.344715124	0.472	0.363	0.000146813 PEC
ZNF331	2.46E-05	0.488466439	0.469	0.23	0.049146119 PEC
STXBP6	9.25E-06	0.330880467	0.444	0.136	0.018506188 PEC
NTRK3	9.07E-12	-0.395004926	0.429	0.227	1.81E-08 PEC
APBB1IP	2.42E-07	0.52542212	0.426	0.177	0.000484363 PEC
PIK3C2G	1.24E-08	-0.31779165	0.42	0.114	2.48E-05 PEC
AC079298.3	5.00E-10	0.563388234	0.401	0.161	1.00E-06 PEC
AP1S3	1.85E-12	0.294041848	0.398	0.268	3.69E-09 PEC
RELN	7.94E-13	0.461219027	0.395	0.224	1.59E-09 PEC
LINC01428	8.95E-11	0.341718937	0.37	0.082	1.79E-07 PEC
ELF3	4.51E-15	0.454281099	0.364	0.164	9.02E-12 PEC
CRAT37	1.10E-08	0.329392993	0.364	0.066	2.20E-05 PEC
LINC01098	5.80E-16	-0.281854008	0.361	0.123	1.16E-12 PEC
GBA3	1.94E-16	0.27791389	0.361	0.208	3.88E-13 PEC
FOXP2	3.65E-14	0.598135759	0.358	0.132	7.30E-11 PEC
ARMC4	2.27E-16	0.536326524	0.34	0.085	4.54E-13 PEC
FOSB	1.19E-14	0.288872202	0.333	0.019	2.37E-11 PEC
HBEGF	1.72E-14	0.396111805	0.321	0.05	3.44E-11 PEC
SLC5A8	1.79E-21	0.321161512	0.302	0.041	3.59E-18 PEC
NR4A2	1.22E-26	0.259854631	0.287	0.123	2.45E-23 PEC
C3	4.44E-26	0.405642998	0.284	0.069	8.88E-23 PEC
ZFPM2-AS1	1.81E-26	0.421751364	0.281	0.091	3.61E-23 PEC
PIEZO2	1.70E-25	0.427030112	0.278	0.057	3.41E-22 PEC
KCNQ5	3.59E-34	0.384009193	0.25	0.11	7.17E-31 PEC
INHBA	2.90E-35	0.356743245	0.238	0.085	5.80E-32 PEC
SOX4	5.43E-38	0.414388252	0.228	0.057	1.09E-34 PEC

GEM	4.30E-43	0.262071395	0.207	0.05	8.59E-40 PEC
SPATA18	5.00E-25	0.264477911	0.201	0.035	1.00E-21 PEC
UGDH	1.20E-50	0.476140841	0.182	0.091	2.40E-47 PEC
LAMC2	8.75E-52	0.380862727	0.176	0.066	1.75E-48 PEC
CXCL2	6.73E-50	0.407848751	0.114	0.035	1.35E-46 PEC
MIOX	9.00E-18	-0.292504653	0.996	0.845	1.80E-14 PCT
SOX5	1.84E-54	-0.348484312	0.995	0.418	3.67E-51 PCT
MT1H	5.88E-140	-0.287842192	0.987	0.308	1.18E-136 PCT
AFM	1.52E-06	-0.356894332	0.975	0.736	0.003047291 PCT
TINAG	1.36E-07	-0.253742199	0.972	0.808	0.000272633 PCT
MT1G	1.07E-102	-0.414198254	0.971	0.33	2.14E-99 PCT
SLC13A3	2.21E-08	-0.259672977	0.968	0.834	4.41E-05 PCT
AGXT2	1.36E-07	-0.267893796	0.962	0.776	0.000271088 PCT
CRIM1	2.14E-56	0.50915156	0.959	0.504	4.27E-53 PCT
MT1E	2.40E-157	-0.25676659	0.952	0.26	4.81E-154 PCT
SLC22A6	1.85E-06	-0.333495905	0.949	0.761	0.003700529 PCT
TIPARP	1.72E-112	-0.35296013	0.944	0.292	3.43E-109 PCT
UPB1	1.19E-05	-0.266268858	0.944	0.547	0.023846476 PCT
LINC02606	0	-0.260479465	0.942	0.141	0 PCT
GBA3	3.38E-44	0.271661901	0.933	0.465	6.76E-41 PCT
CYP3A5	1.38E-05	-0.535322877	0.921	0.723	0.027505295 PCT
LINC02499	7.29E-28	-0.261977344	0.907	0.417	1.46E-24 PCT
C1QTNF7-AS1	1.08E-36	-0.304671656	0.898	0.379	2.16E-33 PCT
PPFIBP1	1.66E-25	0.294629618	0.891	0.536	3.31E-22 PCT
SEMA6A	2.77E-117	0.343732351	0.874	0.26	5.55E-114 PCT
PLCB4	2.37E-214	0.291727186	0.873	0.148	4.73E-211 PCT
CRYAB	1.08E-93	0.388247162	0.871	0.291	2.16E-90 PCT
MT2A	1.15E-93	-0.257519371	0.859	0.245	2.30E-90 PCT
NAV3	4.46E-83	-0.384232417	0.821	0.207	8.93E-80 PCT
AC012593.1	1.04E-23	0.530947022	0.799	0.404	2.08E-20 PCT
PLPPR1	1.01E-05	-0.461363519	0.794	0.575	0.020171812 PCT
UBC	1.97E-51	0.264201761	0.786	0.253	3.94E-48 PCT
NPAS3	2.43E-95	0.349606641	0.784	0.168	4.86E-92 PCT
NEBL	1.85E-69	0.551330217	0.782	0.223	3.69E-66 PCT
CACNA1E	4.04E-08	-0.337348243	0.781	0.365	8.08E-05 PCT
GPC4	3.92E-52	0.309733018	0.78	0.249	7.83E-49 PCT
ARHGAP26	2.39E-08	0.278300279	0.78	0.483	4.79E-05 PCT
TUBGCP3	5.88E-12	0.304664561	0.779	0.396	1.18E-08 PCT
GRIP1	1.07E-15	0.322314121	0.761	0.371	2.15E-12 PCT
KCNMB2	1.54E-10	0.275307725	0.746	0.357	3.08E-07 PCT
COL4A1	6.19E-24	0.611735109	0.744	0.323	1.24E-20 PCT
BICD1	1.41E-38	0.293815814	0.744	0.236	2.83E-35 PCT
NRG3	3.71E-34	0.353869428	0.737	0.232	7.43E-31 PCT
PHACTR1	9.38E-77	0.27014603	0.73	0.12	1.88E-73 PCT
UGCG	2.79E-13	0.398938182	0.728	0.341	5.58E-10 PCT
PLCB1	5.86E-26	0.283029036	0.728	0.253	1.17E-22 PCT
AC098650.1	8.98E-29	0.323137167	0.723	0.229	1.80E-25 PCT
AC011287.1	1.43E-06	-0.461538722	0.715	0.272	0.002855048 PCT
BX571818.1	1.03E-07	0.393060438	0.713	0.371	0.000205574 PCT
SLC8A1	2.96E-09	-0.493828872	0.702	0.449	5.92E-06 PCT
SLC26A7	1.20E-10	-0.486503635	0.698	0.22	2.40E-07 PCT
ITGB8	8.47E-06	0.46231202	0.689	0.379	0.016937685 PCT
RGS6	1.26E-42	0.473439595	0.683	0.12	2.51E-39 PCT
C8orf34	2.43E-75	0.263751064	0.671	0.054	4.85E-72 PCT
CNTN5	1.66E-20	0.268646522	0.646	0.124	3.32E-17 PCT
LINC01435	2.47E-38	0.267315296	0.643	0.063	4.95E-35 PCT
LINC01876	4.88E-12	-0.290998899	0.642	0.141	9.75E-09 PCT
SGIP1	5.76E-47	0.439701055	0.641	0.044	1.15E-43 PCT
ZNF385D	3.68E-10	0.32357369	0.64	0.167	7.35E-07 PCT
ENAH	1.03E-07	0.304446533	0.62	0.157	0.000205335 PCT

SEL1L3	6.85E-07	0.369715951	0.617	0.165	0.001369588 PCT
LNC-LBCS	9.95E-06	0.295144591	0.605	0.139	0.019902488 PCT
ADGRL3	8.21E-15	0.39998926	0.604	0.076	1.64E-11 PCT
PVT1	1.56E-10	0.322193597	0.568	0.087	3.12E-07 PCT
KCNMA1	1.20E-10	0.315080474	0.553	0.044	2.40E-07 PCT
MIR4435-2HG	1.61E-11	0.281630918	0.52	0.223	3.22E-08 PCT
AKAP12	5.73E-10	0.505227697	0.505	0.153	1.15E-06 PCT
NLGN4Y	2.09E-14	0.286058187	0.501	0.188	4.17E-11 PCT
RNF144B	2.96E-11	0.265169742	0.479	0.089	5.92E-08 PCT
ALDH1A2	6.03E-19	0.622759193	0.472	0.136	1.21E-15 PCT
AC005699.1	9.71E-14	0.279447762	0.471	0.11	1.94E-10 PCT
CADM1	1.11E-25	0.359277669	0.464	0.161	2.22E-22 PCT
SLIT3	6.94E-25	0.721671989	0.463	0.14	1.39E-21 PCT
ROBO2	3.53E-50	0.447359584	0.43	0.171	7.06E-47 PCT
ITGB6	3.50E-34	0.278178904	0.421	0.072	7.00E-31 PCT
FOS	3.78E-29	0.270852282	0.421	0.04	7.57E-26 PCT
DNAH5	1.35E-45	0.42815682	0.418	0.115	2.69E-42 PCT
SATB2	1.39E-48	0.360965066	0.4	0.106	2.77E-45 PCT
MIR31HG	2.59E-73	0.291118118	0.366	0.053	5.18E-70 PCT
TNC	1.03E-16	0.252583643	0.364	0.021	2.07E-13 PCT
HRH1	3.85E-32	0.279503503	0.361	0.023	7.70E-29 PCT
KCNT2	3.94E-90	0.299185123	0.356	0.077	7.89E-87 PCT
TSHZ2	1.58E-103	0.519431593	0.341	0.069	3.16E-100 PCT
VCAM1	1.13E-116	0.357609606	0.337	0.109	2.25E-113 PCT
SMAD9	1.82E-153	0.278694002	0.27	0.045	3.65E-150 PCT
ZNF385D	8.92E-22	-0.724978159	1	0.249	1.78E-18 MES
FTCD	9.75E-43	-0.63710001	1	0.122	1.95E-39 MES
ACSM2B	5.06E-30	-0.482221988	1	0.188	1.01E-26 MES
GPAT3	4.77E-30	-0.447896144	1	0.188	9.55E-27 MES
AL390334.1	2.81E-13	-0.358336223	1	0.326	5.61E-10 MES
SLC8A1-AS1	2.65E-11	0.295460567	1	0.414	5.30E-08 MES
PAH	6.01E-49	-0.252179265	1	0.094	1.20E-45 MES
NTRK2	1.59E-05	-0.462331209	0.996	0.425	0.031774228 MES
MIOX	3.35E-47	-0.416516334	0.996	0.099	6.71E-44 MES
DDIT4	6.77E-43	-0.400098862	0.996	0.116	1.35E-39 MES
CTTNBP2	4.84E-21	-0.371333239	0.996	0.243	9.67E-18 MES
CACNA2D3	6.78E-07	-0.329369776	0.996	0.409	0.001356022 MES
ERRF1	3.40E-08	-0.308090483	0.996	0.387	6.81E-05 MES
CELF2	3.33E-13	-0.706585623	0.991	0.304	6.66E-10 MES
TIPARP	7.72E-11	-0.477052019	0.991	0.337	1.54E-07 MES
PDGFD	9.91E-30	-0.464023715	0.991	0.182	1.98E-26 MES
TENM2	4.68E-30	-0.456512795	0.987	0.177	9.37E-27 MES
ADAMTS3	1.47E-25	-1.145542855	0.983	0.204	2.95E-22 MES
MT2A	7.15E-20	-0.368981169	0.983	0.254	1.43E-16 MES
ENTPD1	1.52E-28	-0.358045526	0.983	0.188	3.04E-25 MES
HRH1	4.59E-47	-0.29641071	0.983	0.088	9.17E-44 MES
ACSM2A	7.08E-21	-0.558252362	0.974	0.232	1.42E-17 MES
DCLK2	7.66E-26	0.27825457	0.974	0.21	1.53E-22 MES
RALYL	3.06E-17	-0.483210774	0.97	0.254	6.12E-14 MES
PCSK5	2.36E-07	-0.563995743	0.966	0.376	0.000471445 MES
CLNK	5.91E-33	-0.303043704	0.962	0.138	1.18E-29 MES
FOXP2	2.01E-17	-0.736185317	0.957	0.238	4.02E-14 MES
LDB2	6.97E-10	0.539836889	0.957	0.425	1.39E-06 MES
PALMD	4.33E-30	-0.537220792	0.957	0.149	8.66E-27 MES
SLC26A7	2.36E-25	-0.284016403	0.957	0.188	4.71E-22 MES
TINAG	2.83E-36	-0.276339896	0.957	0.116	5.66E-33 MES
AC092078.2	3.45E-50	-0.415821407	0.953	0.061	6.91E-47 MES
SLC12A3	7.89E-33	-0.314964415	0.953	0.133	1.58E-29 MES
A2M	8.53E-06	0.701536492	0.944	0.486	0.017057768 MES
CLIC5	1.08E-24	-0.562375595	0.944	0.171	2.17E-21 MES

KCNB1	5.48E-24	-0.333056451	0.944	0.204	1.10E-20 MES
ANO3	3.68E-09	0.57732946	0.94	0.365	7.35E-06 MES
LINC00871	1.74E-29	-0.37791979	0.94	0.138	3.48E-26 MES
GALNT13	8.17E-44	-0.328395405	0.94	0.061	1.63E-40 MES
LINC01435	1.84E-22	-0.640408739	0.936	0.182	3.68E-19 MES
AC007744.1	2.73E-33	-0.379448762	0.936	0.11	5.46E-30 MES
FHL1	2.31E-12	-0.312292164	0.936	0.282	4.63E-09 MES
MGAT4C	5.28E-26	-0.396312911	0.91	0.133	1.06E-22 MES
MT1M	7.83E-47	-0.516781714	0.906	0.066	1.57E-43 MES
DPYSL3	4.51E-15	-0.462712406	0.897	0.21	9.01E-12 MES
AC026316.4	9.13E-20	-0.961167806	0.893	0.16	1.83E-16 MES
RARB	1.98E-06	0.506395363	0.885	0.42	0.003959049 MES
ADRA1A	6.77E-12	-0.490032405	0.88	0.271	1.35E-08 MES
NEBL	1.72E-10	-0.259204493	0.872	0.243	3.45E-07 MES
RYR3	6.99E-21	-0.437112157	0.863	0.122	1.40E-17 MES
CCDC39	3.74E-22	-0.360614449	0.863	0.11	7.48E-19 MES
NPSR1-AS1	6.42E-24	-0.292756119	0.863	0.099	1.28E-20 MES
OPCML	4.91E-16	0.272390041	0.863	0.177	9.81E-13 MES
F3	9.43E-31	-0.499989403	0.859	0.127	1.89E-27 MES
KCNB2	4.31E-18	-0.356127149	0.859	0.144	8.63E-15 MES
CRYAB	3.92E-21	-0.605097015	0.855	0.11	7.84E-18 MES
IL1RAPL2	2.10E-17	0.480568666	0.855	0.16	4.20E-14 MES
POSTN	5.37E-12	-0.451440251	0.85	0.193	1.07E-08 MES
ITPKC	6.07E-17	-0.837444195	0.842	0.133	1.21E-13 MES
PTPRQ	2.16E-09	-0.545753483	0.842	0.215	4.33E-06 MES
SEMA3C	1.09E-09	-0.331305857	0.842	0.227	2.19E-06 MES
UAP1	3.73E-10	-0.33033369	0.833	0.199	7.47E-07 MES
CNTN5	2.40E-06	0.714839095	0.825	0.271	0.004796537 MES
BTG2	5.32E-08	-0.503568041	0.821	0.221	0.000106419 MES
DEPTOR	1.35E-06	-0.264472527	0.812	0.232	0.002709018 MES
CADM2	3.00E-19	0.403634328	0.808	0.077	6.00E-16 MES
NTN1	2.09E-09	-0.620221789	0.803	0.171	4.18E-06 MES
MT1X	3.85E-16	-0.41649748	0.803	0.099	7.70E-13 MES
COL4A6	5.75E-12	-0.298572129	0.799	0.149	1.15E-08 MES
H19	9.19E-39	-0.290841964	0.799	0.061	1.84E-35 MES
FBLN5	2.99E-15	0.28243371	0.791	0.105	5.97E-12 MES
DACH1	2.86E-06	0.519938592	0.786	0.254	0.005711856 MES
KLF5	3.69E-15	-0.394810849	0.782	0.088	7.38E-12 MES
FMN2	6.10E-11	-0.291044828	0.778	0.127	1.22E-07 MES
NCAM2	5.21E-34	0.272470251	0.778	0.061	1.04E-30 MES
AC104041.1	1.72E-24	0.296947531	0.769	0.022	3.43E-21 MES
H3-3B	6.89E-07	-0.265288455	0.769	0.182	0.001378144 MES
ADGRF5	1.51E-05	0.444628201	0.765	0.238	0.030269048 MES
IL18	3.48E-15	-0.263117468	0.752	0.055	6.95E-12 MES
LINC02237	2.09E-23	0.421079516	0.744	0.044	4.18E-20 MES
ANKRD33B	5.80E-10	-0.369384907	0.744	0.099	1.16E-06 MES
HECW1	9.25E-13	0.310023697	0.731	0.05	1.85E-09 MES
LINC02511	1.50E-34	-0.471430549	0.722	0.044	3.00E-31 MES
PURPL	5.53E-11	-0.275888762	0.718	0.055	1.11E-07 MES
LINC02398	3.98E-10	0.371990645	0.714	0.066	7.96E-07 MES
DUSP5	1.20E-08	-0.259473045	0.709	0.077	2.41E-05 MES
UMOD	9.91E-08	-0.31048094	0.701	0.077	0.000198294 MES
GFRA1	2.75E-07	0.415831242	0.671	0.05	0.000549382 MES
DEPP1	2.80E-06	-0.369537262	0.667	0.072	0.005597703 MES
PAK3	2.34E-06	-0.59751563	0.658	0.16	0.004686541 MES
AOX1	2.34E-13	-0.754587163	0.641	0.16	4.69E-10 MES
IGFBP6	5.62E-08	-0.485381619	0.598	0.066	0.000112381 MES
KDR	8.51E-07	-0.259140884	0.577	0.066	0.001701169 MES
KCNMA1	6.31E-06	-0.347798532	0.474	0.265	0.012616127 MES
AL137782.1	2.82E-07	-0.263719628	0.449	0.309	0.000564531 MES

NID1	2.20E-05	0.252722629	0.444	0.232	0.043998951 MES
HSPA1B	2.68E-06	-0.404684541	0.44	0.221	0.005351142 MES
CD9	2.68E-06	-0.342331494	0.423	0.149	0.00536058 MES
CRISPLD2	2.31E-05	0.313469169	0.423	0.16	0.046141343 MES
KCNE4	1.25E-05	0.301424926	0.415	0.16	0.024923457 MES
MSC-AS1	4.20E-06	0.477561271	0.41	0.144	0.008390964 MES
HSPB1	1.71E-07	-0.353000781	0.406	0.171	0.000341169 MES
ATF3	3.27E-08	-0.736582341	0.402	0.155	6.54E-05 MES
FGF2	7.90E-06	0.256676794	0.402	0.077	0.015798059 MES
SLC2A3	6.29E-06	0.890967659	0.397	0.116	0.012580151 MES
LINC01098	1.70E-06	0.441024514	0.393	0.072	0.003390387 MES
GALNT17	7.59E-10	-0.354051986	0.385	0.177	1.52E-06 MES
STIM2	2.55E-12	-0.391816034	0.38	0.254	5.10E-09 MES
AC009975.1	5.42E-07	0.375202255	0.38	0.061	0.001083173 MES
SPP1	5.53E-08	-0.308271354	0.38	0.088	0.000110595 MES
LDHA	2.42E-07	-0.353998943	0.372	0.055	0.000484181 MES
FHL2	1.08E-09	0.297806486	0.372	0.238	2.16E-06 MES
ANKRD55	6.45E-07	0.270913165	0.372	0.028	0.001289744 MES
ATP2B4	1.08E-13	-0.457257718	0.368	0.315	2.15E-10 MES
DACH2	7.53E-09	0.307401192	0.363	0.077	1.51E-05 MES
RXFP1	1.92E-08	0.402869832	0.359	0.05	3.85E-05 MES
AC093865.1	1.88E-09	-0.311357844	0.359	0.077	3.76E-06 MES
EEPD1	7.58E-10	0.624311857	0.35	0.122	1.52E-06 MES
SORCS3	9.20E-12	-0.362347664	0.35	0.122	1.84E-08 MES
NR4A3	1.90E-11	0.466392337	0.342	0.155	3.80E-08 MES
PIK3R3	1.90E-10	0.330456665	0.338	0.044	3.81E-07 MES
VCAM1	4.31E-11	0.551498037	0.333	0.055	8.61E-08 MES
GEM	6.77E-12	0.652194535	0.329	0.116	1.35E-08 MES
TMTC2	1.11E-13	0.276165673	0.329	0.166	2.23E-10 MES
ZNF804A	2.88E-12	0.626318812	0.325	0.066	5.75E-09 MES
CD44	4.49E-13	0.417060303	0.325	0.138	8.99E-10 MES
ARHGAP15	8.91E-13	0.408264003	0.321	0.077	1.78E-09 MES
FAM155A	3.43E-16	-0.448841793	0.316	0.193	6.87E-13 MES
ADAMTS12	1.93E-12	0.506141674	0.312	0.033	3.86E-09 MES
SEMA3E	1.81E-09	-0.358440319	0.308	0.039	3.61E-06 MES
NRK	6.61E-16	-0.33102184	0.303	0.099	1.32E-12 MES
RHOJ	2.84E-14	0.310296427	0.299	0.105	5.69E-11 MES
KIRREL3	1.62E-05	0.550907222	0.282	0.017	0.032356607 MES
PDLIM3	6.02E-18	-0.259557558	0.282	0.133	1.20E-14 MES
DTNA	4.10E-20	-0.427693684	0.278	0.177	8.20E-17 MES
BIRC3	3.05E-17	0.276746182	0.269	0.022	6.10E-14 MES
AL357507.1	2.38E-22	-0.317190303	0.252	0.099	4.75E-19 MES
BHLHE40	1.26E-21	0.278052615	0.252	0.099	2.52E-18 MES
AL359232.1	1.21E-21	0.291997999	0.248	0.072	2.43E-18 MES
LINC00278	8.22E-22	0.502613363	0.239	0.05	1.64E-18 MES
SLCO2A1	6.29E-25	0.40441537	0.226	0.083	1.26E-21 MES
VCAN	1.52E-16	0.717351337	0.214	0.066	3.04E-13 MES
EGR3	1.47E-19	0.268797285	0.214	0.011	2.93E-16 MES
NLGN4Y	5.07E-29	0.375976226	0.197	0.055	1.01E-25 MES
NKAIN2	1.04E-30	0.254357304	0.197	0.138	2.09E-27 MES
RGS16	4.22E-29	0.574536	0.188	0.017	8.45E-26 MES
PECAM1	6.53E-31	0.38766502	0.188	0.072	1.31E-27 MES
HCLS1	7.29E-18	0.340272058	0.171	0.022	1.46E-14 MES
REN	8.31E-33	0.486865535	0.167	0.066	1.66E-29 MES
KLF2	5.32E-36	-0.280262489	0.167	0.133	1.06E-32 MES
TMEM178B	5.29E-30	0.321734576	0.158	0.061	1.06E-26 MES
MUSK	4.53E-13	0.398699647	0.145	0.039	9.06E-10 MES
SLC25A21	2.98E-41	-0.296162728	0.137	0.105	5.95E-38 MES
P3H2	3.87E-06	-0.272954573	0.999	0.855	0.007745319 LOH
P4HA1	1.17E-07	-0.415615877	0.998	0.535	0.000234835 LOH

CYTIP	7.15E-104	-0.342043603	0.996	0.292	1.43E-100 LOH
KLHL13	4.29E-06	0.280891615	0.996	0.915	0.008588506 LOH
CDH20	4.31E-132	-0.357491614	0.994	0.272	8.62E-129 LOH
FP671120.4	1.47E-05	0.362944837	0.991	0.986	0.029435022 LOH
SORCS3	2.96E-37	-0.290145102	0.986	0.411	5.92E-34 LOH
AC069277.1	1.30E-165	-0.259223907	0.986	0.23	2.60E-162 LOH
COL8A1	1.39E-30	-0.772814083	0.983	0.43	2.78E-27 LOH
BDKRB2	7.21E-08	-0.300514426	0.981	0.515	0.000144116 LOH
CREB3L2	4.00E-06	-0.377180305	0.967	0.759	0.007995816 LOH
LINC01055	4.50E-157	-0.342043514	0.966	0.218	9.00E-154 LOH
TMEM132C	2.86E-69	-0.713400012	0.961	0.316	5.72E-66 LOH
ACTN1	5.89E-44	-0.301913896	0.961	0.368	1.18E-40 LOH
GPR137B	4.55E-36	-0.266072097	0.959	0.372	9.10E-33 LOH
MIR222HG	8.04E-44	-0.441400746	0.951	0.371	1.61E-40 LOH
TRPM7	1.24E-05	0.265561712	0.945	0.789	0.024843826 LOH
CACNA1C	1.80E-53	-0.35388708	0.928	0.323	3.60E-50 LOH
SLC8A1	4.04E-27	0.319993134	0.918	0.398	8.08E-24 LOH
HOMER1	5.13E-07	-0.435656716	0.914	0.525	0.00102622 LOH
ACSM2B	1.73E-115	-0.397868617	0.885	0.193	3.45E-112 LOH
CPNE4	3.94E-54	-0.380300505	0.872	0.271	7.88E-51 LOH
MIR646HG	1.30E-19	-0.272686191	0.85	0.356	2.61E-16 LOH
KCNQ3	1.20E-137	-0.252122146	0.845	0.131	2.41E-134 LOH
S100A2	1.51E-45	-0.263809155	0.835	0.253	3.02E-42 LOH
IL1RAPL2	5.72E-14	-0.307809549	0.809	0.345	1.14E-10 LOH
MIOX	5.17E-98	-0.313740215	0.79	0.113	1.03E-94 LOH
ACSM2A	3.50E-22	-0.353470286	0.742	0.22	7.00E-19 LOH
PXDNL	3.28E-12	0.295263894	0.688	0.252	6.57E-09 LOH
LINC01811	3.14E-30	0.441187821	0.679	0.114	6.28E-27 LOH
RGS6	1.60E-09	0.373146219	0.628	0.155	3.20E-06 LOH
SLC8A1-AS1	4.22E-06	0.301691041	0.627	0.151	0.008432763 LOH
DLGAP1	2.10E-26	0.251664713	0.454	0.166	4.19E-23 LOH
AC005699.1	2.80E-25	0.313461016	0.435	0.114	5.60E-22 LOH
AC008415.1	1.88E-47	0.437363355	0.362	0.028	3.76E-44 LOH
GRM8	1.63E-145	0.382092944	0.262	0.06	3.25E-142 LOH
PLXNA4	2.26E-09	-1.41	1	0.1	4.53E-06 LEUK
CYP3A5	5.44E-10	1.035316902	1	0.1	1.09E-06 LEUK
LINC00276	1.83E-11	-0.600927895	1	0.05	3.66E-08 LEUK
PRODH2	1.83E-11	-0.563137462	1	0.05	3.66E-08 LEUK
SLC17A1	5.60E-06	-0.548231638	1	0.2	0.011190632 LEUK
NPL	1.20E-07	-0.4667297	1	0.15	0.000240232 LEUK
HMOX1	1.54E-07	-0.456792269	1	0.15	0.000308923 LEUK
NOX4	1.37E-07	-0.445031283	1	0.15	0.000274514 LEUK
PPARG	2.08E-09	-0.427432154	1	0.1	4.17E-06 LEUK
AC096577.1	1.42E-09	0.403173336	1	0.1	2.83E-06 LEUK
C1QTNF7-AS1	1.55E-11	0.399586017	1	0.05	3.09E-08 LEUK
PLCXD3	1.57E-07	-0.39945464	1	0.15	0.000313507 LEUK
LINC02196	1.95E-09	-0.367963491	1	0.1	3.90E-06 LEUK
LRP2	2.91E-06	-0.360835033	1	0.2	0.005825164 LEUK
DPYS	1.83E-11	-0.359097491	1	0.05	3.66E-08 LEUK
ACSM2B	1.90E-06	0.346737641	1	0.2	0.003800073 LEUK
FAM110B	4.61E-06	-0.323993193	1	0.2	0.009217213 LEUK
RHCG	1.83E-11	-0.296120072	1	0.05	3.66E-08 LEUK
SLC4A4	2.26E-06	0.291271547	1	0.2	0.004524172 LEUK
SFRP1	2.26E-09	-0.286540469	1	0.1	4.53E-06 LEUK
CACNB4	2.12E-09	-0.285484872	1	0.1	4.24E-06 LEUK
LINC00871	1.46E-07	-0.281344943	1	0.15	0.000291227 LEUK
AC116049.1	1.83E-11	-0.272012804	1	0.05	3.66E-08 LEUK
LINC00621	1.58E-11	0.270854703	1	0.05	3.15E-08 LEUK
MT1G	1.64E-11	0.268195805	1	0.05	3.27E-08 LEUK
LINC00671	1.64E-11	0.263623205	1	0.05	3.27E-08 LEUK

PODXL	2.08E-09	-0.251755676 1	0.1	4.17E-06 LEUK
LINGO2	1.64E-07	-0.980603534 0.996	0.15	0.000327656 LEUK
LONRF3	3.00E-09	-0.817741304 0.996	0.1	6.00E-06 LEUK
SOX5	4.30E-08	0.791989996 0.996	0.15	8.61E-05 LEUK
NLRP3	1.63E-07	-0.679645893 0.996	0.15	0.000325091 LEUK
NRP1	4.67E-06	-0.660188982 0.996	0.2	0.009337663 LEUK
AGXT2	7.51E-06	-0.624381965 0.996	0.2	0.015021043 LEUK
MIOX	2.90E-09	-0.589786629 0.996	0.1	5.81E-06 LEUK
AC018742.1	2.08E-11	0.549629102 0.996	0.05	4.17E-08 LEUK
TIPARP	7.23E-06	-0.496422981 0.996	0.2	0.01445829 LEUK
PLIN2	1.25E-13	0.325404593 0.996	0	2.50E-10 LEUK
AL355499.1	2.55E-11	-0.308419774 0.996	0.05	5.11E-08 LEUK
HNF4A	2.55E-11	-0.302932044 0.996	0.05	5.11E-08 LEUK
H1-0	2.14E-11	-0.287079114 0.996	0.05	4.28E-08 LEUK
ENPEP	2.72E-09	-0.262405052 0.996	0.1	5.44E-06 LEUK
GUCY1A2	2.86E-09	-0.250870952 0.996	0.1	5.71E-06 LEUK
Z93403.1	1.88E-13	0.593596869 0.993	0	3.75E-10 LEUK
TNFRSF19	4.24E-09	-0.519706864 0.993	0.1	8.48E-06 LEUK
MT2A	1.88E-13	0.465861979 0.993	0	3.75E-10 LEUK
ALDOB	1.53E-13	0.414980154 0.993	0	3.06E-10 LEUK
PPP1R1C	4.10E-09	-0.395648129 0.993	0.1	8.21E-06 LEUK
SLC30A8	3.54E-09	-0.357895827 0.993	0.1	7.08E-06 LEUK
DLEU1	1.82E-07	-0.343510472 0.993	0.15	0.000363114 LEUK
ITPKC	4.10E-09	-0.265574388 0.993	0.1	8.21E-06 LEUK
AC011287.1	5.00E-09	-0.69988891 0.989	0.1	9.99E-06 LEUK
AC093895.1	4.91E-09	-0.529935044 0.989	0.1	9.82E-06 LEUK
TMEM178A	3.49E-07	-0.52470517 0.989	0.15	0.000697084 LEUK
TNFRSF21	5.00E-09	-0.318083135 0.989	0.1	9.99E-06 LEUK
STAP1	3.52E-11	0.598365694 0.985	0.05	7.03E-08 LEUK
SLC22A6	4.21E-13	0.407215859 0.985	0	8.42E-10 LEUK
SMIM35	1.02E-08	-0.631122232 0.982	0.1	2.03E-05 LEUK
CXXC4-AS1	6.27E-13	0.467485867 0.982	0	1.25E-09 LEUK
SCN1A-AS1	1.00E-08	-0.456406136 0.982	0.1	2.00E-05 LEUK
RHOBTB3	9.50E-11	0.3108764 0.982	0.05	1.90E-07 LEUK
GK	1.04E-05	-0.259829933 0.982	0.2	0.020857461 LEUK
ACSM2A	4.02E-07	0.50266789 0.978	0.15	0.000804221 LEUK
AL136114.1	1.46E-10	-0.339706281 0.978	0.05	2.92E-07 LEUK
PKN2-AS1	1.46E-10	-0.300189725 0.978	0.05	2.92E-07 LEUK
AJ009632.2	1.46E-10	-0.252499233 0.978	0.05	2.92E-07 LEUK
AC003984.1	8.77E-09	-0.928492787 0.975	0.1	1.75E-05 LEUK
AKAP12	1.65E-10	0.331326093 0.975	0.05	3.31E-07 LEUK
LINC01239	1.38E-12	0.304256341 0.975	0	2.77E-09 LEUK
AL391117.1	1.38E-12	0.250869526 0.975	0	2.77E-09 LEUK
PLCE1	1.01E-06	-1.066547292 0.971	0.15	0.00202955 LEUK
CCL4	5.16E-07	-1.219670775 0.967	0.15	0.001032736 LEUK
SGCD	3.98E-08	-1.250126801 0.964	0.1	7.96E-05 LEUK
LINC01229	4.43E-12	0.389016599 0.964	0	8.85E-09 LEUK
MT1E	3.00E-12	0.349300971 0.964	0	6.01E-09 LEUK
ADTRP	9.75E-09	-0.308458399 0.964	0.1	1.95E-05 LEUK
LINC00484	3.63E-08	-0.250807034 0.964	0.1	7.26E-05 LEUK
LINC01503	7.67E-10	-0.353319507 0.96	0.05	1.53E-06 LEUK
DCC	9.42E-10	0.553825266 0.956	0.05	1.88E-06 LEUK
AL031599.1	1.06E-09	-0.353050597 0.956	0.05	2.12E-06 LEUK
RGS2	1.76E-08	-0.299029988 0.956	0.1	3.51E-05 LEUK
ALDH1A1	9.48E-12	0.257717254 0.956	0	1.90E-08 LEUK
MCF2	1.42E-08	-0.311656039 0.953	0.1	2.84E-05 LEUK
LINC01197	1.06E-09	-0.252308105 0.953	0.05	2.12E-06 LEUK
LINC00189	2.00E-10	-0.518911364 0.949	0.05	4.00E-07 LEUK
SLC14A2	2.90E-11	0.455654867 0.945	0	5.81E-08 LEUK
KCNT2	1.22E-09	-0.32967708 0.942	0.05	2.43E-06 LEUK

PLG	4.20E-11	0.311263291	0.942	0	8.39E-08 LEUK
CPED1	2.26E-06	0.764309485	0.938	0.15	0.004522498 LEUK
CHN1	7.23E-06	-0.442527689	0.938	0.15	0.014453453 LEUK
PPP4R4	3.27E-10	-0.36252145	0.938	0.05	6.54E-07 LEUK
MRC1	5.34E-06	-0.268439832	0.938	0.15	0.010689067 LEUK
LY86-AS1	1.75E-06	1.304085987	0.935	0.15	0.003503415 LEUK
APCDD1L	2.30E-09	-0.293472842	0.935	0.05	4.60E-06 LEUK
LINC00298	6.80E-08	-0.688873091	0.931	0.1	0.000135985 LEUK
PTP4A1	1.12E-05	-0.26206755	0.927	0.15	0.022328306 LEUK
LDB2	1.65E-05	-0.298632071	0.924	0.15	0.032992973 LEUK
F5	5.22E-08	-0.716409488	0.92	0.1	0.000104492 LEUK
CLIC4	4.97E-07	0.506908687	0.92	0.1	0.000994776 LEUK
GALNTL6	2.04E-08	0.519801879	0.916	0.05	4.08E-05 LEUK
PMEP1	2.29E-08	0.307038665	0.916	0.05	4.59E-05 LEUK
SLIT3	1.16E-06	-0.30238831	0.916	0.1	0.0023278 LEUK
TARID	9.01E-09	-0.273562707	0.916	0.05	1.80E-05 LEUK
KCNMB2	1.07E-06	-0.258786381	0.916	0.1	0.002143579 LEUK
HGF	4.40E-07	-0.553299068	0.913	0.1	0.000880733 LEUK
SNTG1	7.16E-10	0.437331338	0.913	0	1.43E-06 LEUK
CHGB	4.88E-08	-0.375079488	0.905	0.05	9.77E-05 LEUK
ROBO2	6.10E-08	0.299387178	0.905	0.05	0.000122093 LEUK
COL23A1	2.32E-06	-0.295244553	0.905	0.1	0.004643072 LEUK
DPP6	2.23E-06	0.264900458	0.902	0.1	0.004460556 LEUK
LDB3	2.02E-06	-0.477873621	0.898	0.1	0.00404627 LEUK
C1orf21	3.55E-06	-0.368508417	0.898	0.1	0.007093366 LEUK
FBN2	6.29E-07	-0.258560816	0.895	0.1	0.001258364 LEUK
AC068775.1	1.67E-07	-0.766494341	0.891	0.1	0.0003339 LEUK
TRGC1	8.41E-06	-0.381874934	0.891	0.15	0.016822361 LEUK
TMEM178B	7.90E-06	-0.428622044	0.887	0.1	0.01579289 LEUK
PTCHD1-AS	1.02E-08	0.921869918	0.884	0	2.03E-05 LEUK
MTHFD2L	6.36E-06	0.34428391	0.884	0.1	0.012715319 LEUK
ADAM12	2.28E-08	0.355046396	0.88	0.05	4.57E-05 LEUK
RAPGEF4	1.20E-05	-0.297379695	0.88	0.1	0.02391419 LEUK
NPHS1	3.63E-07	-0.680550885	0.876	0.1	0.000726459 LEUK
SH3RF3	5.57E-07	0.639542828	0.876	0.05	0.001113214 LEUK
NETO2	2.55E-07	-0.270758108	0.876	0.1	0.000509691 LEUK
DNASE1L3	2.56E-07	-0.427648809	0.873	0.1	0.00051265 LEUK
GGT4P	2.18E-05	-0.280338917	0.869	0.1	0.043639703 LEUK
AC007319.1	1.95E-06	-0.339773537	0.862	0.05	0.003898782 LEUK
CYYR1-AS1	1.31E-06	-0.381942621	0.847	0.05	0.002624554 LEUK
WT1	1.77E-08	-0.270422904	0.847	0.05	3.55E-05 LEUK
PCDH9	6.04E-06	0.475853149	0.844	0.05	0.012074329 LEUK
KIRREL1	6.00E-06	-0.427589424	0.844	0.05	0.011991351 LEUK
AC116362.1	6.77E-06	-0.365626667	0.844	0.05	0.013549471 LEUK
GALNT17	2.96E-08	0.261638967	0.836	0	5.93E-05 LEUK
AREG	4.13E-08	-0.317735315	0.833	0.05	8.26E-05 LEUK
AC016766.1	3.76E-09	0.261341939	0.811	0	7.51E-06 LEUK
AL110292.1	7.50E-06	0.261640708	0.8	0	0.01499712 LEUK
MMADHC-DT	1.24E-05	0.312531328	0.793	0	0.024802999 LEUK
GAD1	1.56E-06	-0.385245369	0.756	0.05	0.0031171 LEUK
GPM6A	3.93E-06	0.733153571	0.72	0	0.007851705 LEUK
LINC00924	8.72E-06	-0.339354717	0.676	0.05	0.017440106 LEUK
H3-3B	2.26E-05	0.470650116	0.225	0.05	0.04525292 LEUK
H2AC6	2.43E-05	0.929194981	0.222	0.05	0.048651192 LEUK
SAMD3	3.74E-06	-0.907461554	0.222	0.15	0.007478414 LEUK
CDH2	1.57E-05	-0.487702489	0.222	0.05	0.031387471 LEUK
KIF26B	1.73E-05	0.51164364	0.218	0.05	0.034625577 LEUK
ROBO1	1.59E-05	0.605686737	0.211	0	0.03176206 LEUK
AL365295.1	9.66E-06	0.579971115	0.204	0	0.019313943 LEUK
SGO1-AS1	6.35E-06	0.42926137	0.204	0.05	0.012709907 LEUK

ENG	1.24E-05	0.26224867	0.204	0	0.024777417 LEUK
TRAF1	8.51E-06	0.579996349	0.2	0	0.017016573 LEUK
EPS8	1.61E-06	-0.386660653	0.196	0.1	0.003228919 LEUK
FCRL1	3.93E-06	1.395193648	0.189	0	0.007865505 LEUK
FAM102A	2.65E-06	0.608183916	0.185	0	0.005299543 LEUK
ALDH1A2	5.57E-07	-0.624860504	0.182	0.1	0.001113792 LEUK
TRPC6	2.03E-06	0.297010978	0.182	0	0.004057066 LEUK
SLC20A1	1.18E-07	-0.749246414	0.178	0.25	0.000236895 LEUK
H2AC18	7.80E-07	0.738028822	0.178	0.1	0.001559017 LEUK
EIF2AK3	1.18E-06	0.653106503	0.175	0	0.002357506 LEUK
PXYLP1	8.95E-07	0.259237984	0.171	0	0.001789444 LEUK
COL19A1	5.88E-07	0.689996327	0.164	0	0.001176302 LEUK
PTP4A2	3.85E-07	0.318561763	0.16	0	0.000769279 LEUK
ANXA1	6.40E-07	-1.292376002	0.156	0.1	0.001280608 LEUK
AC244205.1	1.20E-07	1.35369547	0.145	0	0.000239814 LEUK
ST3GAL6	8.01E-08	0.517455076	0.142	0.05	0.000160262 LEUK
FCRL5	8.88E-08	0.988022446	0.138	0	0.000177646 LEUK
SQSTM1	1.59E-08	-0.352133729	0.135	0.1	3.17E-05 LEUK
ATP6V0D2	4.85E-08	0.318373914	0.135	0	9.71E-05 LEUK
KCNAB1	4.85E-08	0.294314036	0.135	0	9.71E-05 LEUK
OLR1	2.85E-07	0.252338343	0.135	0	0.000569742 LEUK
KCNQ3	2.39E-08	0.612781868	0.131	0.05	4.77E-05 LEUK
LRRC4C	2.04E-08	-0.414982883	0.131	0.05	4.08E-05 LEUK
SOX2-OT	9.85E-09	-0.472572427	0.127	0.1	1.97E-05 LEUK
ID2	2.62E-08	0.3006029	0.127	0	5.24E-05 LEUK
LINC01788	1.14E-08	-0.397653745	0.124	0.05	2.27E-05 LEUK
POU2AF1	2.23E-08	0.892299085	0.12	0	4.47E-05 LEUK
NEDD4	1.63E-08	0.324740053	0.12	0	3.27E-05 LEUK
KCNIP1	1.40E-08	0.273726081	0.12	0	2.79E-05 LEUK
DISC1FP1	7.36E-09	0.631911975	0.113	0	1.47E-05 LEUK
PWRN1	7.36E-09	0.371583596	0.113	0	1.47E-05 LEUK
SLC7A7	7.36E-09	0.364476538	0.113	0	1.47E-05 LEUK
MEIS2	7.36E-09	0.362679999	0.113	0	1.47E-05 LEUK
SMS	4.83E-09	-0.270771804	0.113	0.05	9.66E-06 LEUK
WNT5B	5.32E-09	0.571003502	0.109	0	1.06E-05 LEUK
CACNA1C	2.78E-09	-0.273069821	0.105	0.05	5.56E-06 LEUK
LINC00540	2.76E-09	0.527692159	0.102	0	5.52E-06 LEUK
ANXA2	1.18E-09	-0.368725631	0.102	0.1	2.35E-06 LEUK
MT2A	9.95E-17	0.390336514	0.998	0.396	1.99E-13 ENDO
CYP4Z2P	8.66E-91	-0.304691053	0.993	0.116	1.73E-87 ENDO
FTCD	3.90E-83	-0.652747036	0.991	0.132	7.79E-80 ENDO
SLC16A12	8.36E-70	-0.452331841	0.991	0.164	1.67E-66 ENDO
RNF212B	2.37E-79	-0.299523204	0.964	0.116	4.75E-76 ENDO
ERRFI1	4.24E-38	-0.275757152	0.957	0.237	8.49E-35 ENDO
BMPR1B	1.07E-44	-0.281822382	0.944	0.201	2.14E-41 ENDO
MIOX	1.52E-72	-0.281835155	0.94	0.111	3.04E-69 ENDO
CXXC4-AS1	1.06E-62	-0.269996447	0.94	0.14	2.12E-59 ENDO
GRIP1	9.58E-28	-0.568037858	0.933	0.261	1.92E-24 ENDO
ACSM2A	5.68E-37	-0.490102699	0.928	0.216	1.14E-33 ENDO
DDIT4	8.46E-29	-0.256518768	0.926	0.251	1.69E-25 ENDO
RIPOR2	3.90E-14	-0.270930642	0.915	0.338	7.79E-11 ENDO
SLC26A7	7.12E-21	-0.541556321	0.911	0.272	1.42E-17 ENDO
MT1M	1.36E-52	-0.309582872	0.904	0.145	2.73E-49 ENDO
SLIT2	1.14E-22	-0.277824465	0.902	0.264	2.29E-19 ENDO
UGT1A8	1.34E-36	-0.267723186	0.888	0.177	2.67E-33 ENDO
CYP3A5	1.86E-30	-0.556042445	0.886	0.201	3.72E-27 ENDO
KCNMB4	1.39E-05	-0.315378368	0.87	0.396	0.027757039 ENDO
SORCS1	3.72E-37	-0.415866558	0.868	0.153	7.45E-34 ENDO
GPAT3	2.26E-31	-0.386269041	0.861	0.172	4.51E-28 ENDO
KCNJ15	1.16E-30	-0.375422022	0.861	0.174	2.31E-27 ENDO

SGK1	4.44E-08	0.389230273	0.857	0.414	8.87E-05 ENDO
RALYL	3.72E-11	-0.571634943	0.853	0.288	7.43E-08 ENDO
ESM1	3.51E-27	-0.574533402	0.842	0.177	7.02E-24 ENDO
CPM	6.72E-23	-0.451252592	0.839	0.198	1.34E-19 ENDO
ACSM2B	2.64E-24	-0.467272413	0.835	0.182	5.28E-21 ENDO
PDE1C	1.64E-23	-0.465474445	0.824	0.174	3.29E-20 ENDO
GNAI1	7.24E-23	-0.280615829	0.821	0.174	1.45E-19 ENDO
SLC22A6	1.06E-40	-0.264171217	0.821	0.087	2.12E-37 ENDO
SLC16A9	3.89E-27	-0.251673427	0.812	0.14	7.77E-24 ENDO
LINC00671	5.69E-41	-0.287336952	0.808	0.071	1.14E-37 ENDO
PLOD2	1.58E-19	0.280303412	0.806	0.193	3.17E-16 ENDO
COL4A1	1.03E-08	0.591733831	0.804	0.375	2.06E-05 ENDO
DEPTOR	8.80E-13	-0.319091212	0.797	0.219	1.76E-09 ENDO
TOX3	3.75E-17	-0.41070907	0.792	0.177	7.50E-14 ENDO
AC005699.1	1.15E-43	0.407321917	0.792	0.045	2.30E-40 ENDO
ID2	3.36E-15	-0.371491837	0.792	0.19	6.72E-12 ENDO
DCLK2	2.84E-08	0.315137017	0.792	0.311	5.68E-05 ENDO
HRH1	2.74E-15	-0.292046656	0.792	0.198	5.47E-12 ENDO
PCDH15	3.97E-18	0.303659923	0.788	0.174	7.93E-15 ENDO
RHOBTB3	2.48E-11	-0.37119438	0.774	0.203	4.97E-08 ENDO
SPRY1	2.13E-20	0.359524763	0.77	0.15	4.25E-17 ENDO
CACNA2D3	3.72E-18	-0.319340127	0.77	0.145	7.43E-15 ENDO
AC087633.2	3.92E-12	0.297099352	0.763	0.206	7.85E-09 ENDO
AL390334.1	2.22E-12	-0.263256132	0.752	0.169	4.43E-09 ENDO
PRODH2	4.60E-27	-0.251577403	0.752	0.074	9.21E-24 ENDO
CA4	5.92E-17	-0.485885311	0.741	0.153	1.18E-13 ENDO
MAP2	1.21E-05	0.475824981	0.734	0.261	0.024268164 ENDO
AFF3	4.25E-11	0.351913787	0.697	0.124	8.50E-08 ENDO
CNTN1	1.59E-22	0.350398229	0.694	0.034	3.19E-19 ENDO
PAH	9.62E-13	-0.252915757	0.69	0.084	1.92E-09 ENDO
NFE2L2	1.33E-05	-0.332851659	0.676	0.544	0.026699439 ENDO
EYA4	2.25E-23	-0.318825842	0.667	0.077	4.49E-20 ENDO
ABCA10	2.85E-06	-0.303224401	0.661	0.113	0.005691991 ENDO
SLC9C1	7.89E-07	0.268329763	0.658	0.108	0.001578991 ENDO
PCED1B	2.39E-05	-0.376864851	0.652	0.533	0.047873381 ENDO
TENM2	2.37E-09	-0.406531992	0.649	0.084	4.75E-06 ENDO
TMEM101	2.59E-06	-0.265534218	0.647	0.092	0.005170148 ENDO
SCNN1G	3.28E-22	-0.264974836	0.645	0.071	6.55E-19 ENDO
CD200	5.32E-06	0.349779774	0.636	0.092	0.010634707 ENDO
TRPM7	1.16E-07	-0.416838759	0.601	0.472	0.000232978 ENDO
NRP2	1.80E-19	0.339468288	0.601	0.1	3.59E-16 ENDO
EFNB2	1.18E-07	-0.281561106	0.571	0.456	0.000235998 ENDO
NEDD4	5.42E-09	-0.29048972	0.547	0.433	1.08E-05 ENDO
IFI44L	8.28E-08	-0.351041697	0.531	0.343	0.000165662 ENDO
NDRG1	3.10E-06	0.355532636	0.498	0.277	0.006199686 ENDO
ITGA8	1.34E-10	-0.425954806	0.495	0.335	2.68E-07 ENDO
NOX4	4.65E-06	-0.34922373	0.478	0.153	0.009298318 ENDO
TCIM	1.70E-06	0.445339145	0.473	0.203	0.003409113 ENDO
SLC12A3	8.65E-06	-0.584310017	0.469	0.121	0.0172958 ENDO
FGF13	2.90E-08	-0.702900294	0.466	0.172	5.80E-05 ENDO
HDAC9	1.56E-05	0.576973115	0.449	0.095	0.031284428 ENDO
KLHL13	1.19E-10	-0.310616707	0.44	0.158	2.38E-07 ENDO
VEGFC	8.50E-10	0.439876055	0.438	0.208	1.70E-06 ENDO
SULF1	2.63E-12	-0.450239852	0.435	0.203	5.25E-09 ENDO
CACNA1D	1.75E-08	-0.250814156	0.435	0.1	3.51E-05 ENDO
GASK1B	1.63E-07	0.311604106	0.431	0.084	0.000325862 ENDO
FOS	8.52E-08	0.366818538	0.428	0.09	0.000170485 ENDO
PCDH17	3.87E-12	0.273777322	0.42	0.179	7.74E-09 ENDO
NR4A1	1.37E-11	0.304858484	0.418	0.19	2.74E-08 ENDO
LINC01098	1.84E-12	-0.291844897	0.415	0.124	3.68E-09 ENDO

FAM110B	4.12E-14	-0.275092683	0.395	0.103	8.24E-11 ENDO
KL	3.15E-15	-0.259340417	0.395	0.124	6.31E-12 ENDO
C1orf112	7.01E-13	0.297972766	0.393	0.087	1.40E-09 ENDO
ENPP2	2.44E-13	0.680088058	0.384	0.077	4.87E-10 ENDO
ADAMTSL1	3.40E-16	0.352528349	0.384	0.158	6.81E-13 ENDO
DUSP5	1.49E-15	0.689740817	0.38	0.148	2.99E-12 ENDO
LINC02147	2.73E-11	0.423886759	0.38	0.053	5.46E-08 ENDO
NFATC2	7.43E-21	0.435949631	0.351	0.113	1.49E-17 ENDO
DOCK5	3.47E-16	0.357521622	0.346	0.092	6.93E-13 ENDO
CCDC3	1.87E-18	0.347993279	0.346	0.053	3.73E-15 ENDO
KLHL4	7.83E-18	0.251381224	0.342	0.026	1.57E-14 ENDO
LAMA4	1.26E-24	0.372966344	0.332	0.103	2.53E-21 ENDO
DOCK8	1.40E-23	0.322314894	0.328	0.055	2.81E-20 ENDO
TM4SF1	2.62E-23	0.304597646	0.326	0.087	5.24E-20 ENDO
H2AC18	2.90E-21	0.355240226	0.315	0.047	5.81E-18 ENDO
ADAMTS1	8.72E-27	0.512236219	0.313	0.069	1.74E-23 ENDO
KCTD16	2.90E-30	0.344478762	0.295	0.034	5.79E-27 ENDO
SEMA3A	1.43E-38	0.251412756	0.274	0.082	2.85E-35 ENDO
ST8SIA6	3.89E-37	0.291910681	0.272	0.095	7.78E-34 ENDO
CNTN5	1.27E-36	0.341717413	0.259	0.05	2.54E-33 ENDO
NLGN4Y	1.58E-48	0.25447135	0.237	0.111	3.16E-45 ENDO
SEMA3D	7.50E-18	0.295642431	0.216	0.061	1.50E-14 ENDO
VCAM1	3.25E-25	0.803939373	0.208	0.04	6.50E-22 ENDO
PROX1	9.83E-08	0.260033637	0.196	0.018	0.00019657 ENDO
FOSB	2.77E-35	0.28733766	0.181	0.021	5.54E-32 ENDO
CD36	1.14E-40	0.529426669	0.163	0.024	2.28E-37 ENDO
MSR1	3.02E-81	-0.257981357	0.154	0.098	6.05E-78 ENDO
TMEM178A	7.26E-10	-0.386082228	0.993	0.508	1.45E-06 DCT-CT
HSPA1B	1.11E-19	-0.441802687	0.991	0.45	2.23E-16 DCT-CT
ITGA2	1.97E-10	0.618371754	0.984	0.685	3.93E-07 DCT-CT
PDE1C	4.29E-23	0.321864128	0.978	0.567	8.57E-20 DCT-CT
HSPA1A	6.44E-80	-0.341810331	0.974	0.306	1.29E-76 DCT-CT
GABRA2	1.15E-50	-0.296039033	0.947	0.339	2.30E-47 DCT-CT
SLC5A12	1.18E-141	-0.261070148	0.927	0.185	2.36E-138 DCT-CT
TMTC2	4.51E-07	-0.271583431	0.925	0.83	0.000901002 DCT-CT
NRG1	2.59E-123	-0.285458912	0.921	0.21	5.17E-120 DCT-CT
ITGAV	1.27E-18	0.381641883	0.92	0.571	2.54E-15 DCT-CT
SLC12A3	4.08E-102	-0.75898531	0.911	0.22	8.16E-99 DCT-CT
DACH1	1.35E-14	0.432165467	0.906	0.66	2.70E-11 DCT-CT
EGF	1.53E-29	-0.391954884	0.903	0.378	3.05E-26 DCT-CT
SLC4A4	7.34E-23	-0.329035873	0.901	0.392	1.47E-19 DCT-CT
FNDC3A	4.95E-16	0.492503641	0.9	0.712	9.90E-13 DCT-CT
FGF13	3.50E-30	0.319643815	0.9	0.421	6.99E-27 DCT-CT
KLHL13	1.58E-13	0.32146855	0.877	0.498	3.17E-10 DCT-CT
KCNK13	4.45E-19	-0.304148578	0.872	0.364	8.90E-16 DCT-CT
RTN4	2.38E-10	0.31137466	0.869	0.585	4.77E-07 DCT-CT
NPSR1-AS1	7.87E-41	-0.25794866	0.863	0.287	1.57E-37 DCT-CT
AC004593.2	3.60E-08	0.413548767	0.862	0.56	7.21E-05 DCT-CT
VCL	5.91E-17	0.42349338	0.844	0.505	1.18E-13 DCT-CT
CSGALNACT1	1.44E-05	0.270366533	0.83	0.61	0.028830278 DCT-CT
KIF26B	1.80E-05	-0.267677866	0.825	0.427	0.036037503 DCT-CT
STC1	7.32E-91	0.350347519	0.82	0.154	1.46E-87 DCT-CT
CPM	5.09E-56	0.293765881	0.818	0.229	1.02E-52 DCT-CT
DEFB1	9.16E-08	0.278309647	0.803	0.47	0.000183165 DCT-CT
ACSM2A	4.03E-29	-0.638585358	0.796	0.242	8.06E-26 DCT-CT
ACTB	8.65E-18	0.443802259	0.795	0.413	1.73E-14 DCT-CT
GADD45B	2.54E-24	0.469240704	0.789	0.331	5.09E-21 DCT-CT
SLC44A1	6.12E-11	0.42019313	0.787	0.404	1.22E-07 DCT-CT
SLC16A9	6.94E-57	-0.253403573	0.786	0.161	1.39E-53 DCT-CT
ACSM2B	1.77E-39	-0.568514137	0.78	0.194	3.54E-36 DCT-CT

MIOX	1.10E-69	-0.59457684	0.772	0.12	2.21E-66 DCT-CT
PRODH2	2.59E-71	-0.352130426	0.752	0.1	5.17E-68 DCT-CT
ITGB6	2.98E-14	0.668984562	0.749	0.338	5.96E-11 DCT-CT
PWRN1	1.39E-07	-0.369857582	0.736	0.536	0.0002778 DCT-CT
SLC12A1	4.57E-47	-0.322558919	0.733	0.122	9.14E-44 DCT-CT
GNA13	8.26E-15	0.311344108	0.728	0.267	1.65E-11 DCT-CT
MIR222HG	3.96E-18	0.595930812	0.72	0.253	7.92E-15 DCT-CT
RUNX1	5.09E-06	0.278368441	0.713	0.359	0.010180164 DCT-CT
GPR137B	3.77E-23	0.27054956	0.713	0.181	7.54E-20 DCT-CT
SEMA6D	9.04E-14	-0.330377695	0.708	0.198	1.81E-10 DCT-CT
BTG2	3.34E-06	0.310501986	0.708	0.338	0.006671068 DCT-CT
LGALS3	1.88E-16	0.375132388	0.691	0.203	3.75E-13 DCT-CT
MME	4.18E-15	-0.312174026	0.691	0.167	8.35E-12 DCT-CT
TUFT1	1.15E-10	0.317743353	0.69	0.237	2.30E-07 DCT-CT
GDF15	1.81E-05	0.582379606	0.687	0.341	0.036120523 DCT-CT
THBS1	1.58E-29	0.269082739	0.685	0.116	3.17E-26 DCT-CT
FTCD	8.14E-15	-0.434816436	0.668	0.141	1.63E-11 DCT-CT
MET	1.72E-06	0.510794203	0.667	0.247	0.003437152 DCT-CT
ERRF1I	1.27E-06	0.380164203	0.664	0.213	0.002545528 DCT-CT
SLC6A13	2.70E-10	-0.273873571	0.661	0.152	5.40E-07 DCT-CT
ARG2	3.96E-07	-0.273443871	0.661	0.415	0.000791681 DCT-CT
RAB11FIP1	1.99E-05	0.361261931	0.655	0.23	0.039739032 DCT-CT
SGK1	2.13E-06	0.412534408	0.635	0.192	0.004266324 DCT-CT
COL4A1	5.15E-07	0.323589893	0.569	0.334	0.001029106 DCT-CT
EEPD1	7.38E-06	0.380875883	0.54	0.248	0.014768854 DCT-CT
SGCD	6.20E-08	-0.271520768	0.53	0.192	0.000124066 DCT-CT
PLCB1	2.49E-08	-0.270427915	0.518	0.163	4.98E-05 DCT-CT
LINC01876	3.22E-08	-0.259427566	0.51	0.148	6.44E-05 DCT-CT
NR4A1	1.06E-09	0.308774276	0.507	0.225	2.12E-06 DCT-CT
S100A6	5.83E-08	0.401743887	0.497	0.173	0.000116664 DCT-CT
MAP3K14	6.50E-11	0.280705415	0.489	0.181	1.30E-07 DCT-CT
ATP2B4	1.62E-19	0.258672665	0.48	0.23	3.23E-16 DCT-CT
UPP1	2.90E-11	0.551579721	0.467	0.112	5.81E-08 DCT-CT
IER3	1.56E-17	0.389286459	0.456	0.159	3.13E-14 DCT-CT
FOS	6.77E-30	0.269919424	0.42	0.119	1.35E-26 DCT-CT
SLC2A1	9.12E-19	0.432913093	0.415	0.073	1.82E-15 DCT-CT
EGR1	1.88E-28	0.322631402	0.415	0.093	3.76E-25 DCT-CT
MIDN	2.81E-30	0.408326694	0.411	0.099	5.63E-27 DCT-CT
SPP1	3.27E-36	0.34971578	0.393	0.084	6.54E-33 DCT-CT
FAM155A	3.54E-59	0.444481989	0.356	0.102	7.07E-56 DCT-CT
LONRF3	1.30E-12	0.261067902	0.301	0.023	2.59E-09 DCT-CT
TRPV5	3.71E-105	0.269411837	0.295	0.102	7.41E-102 DCT-CT
LINC00113	5.96E-63	-0.275122136	1	0.325	1.19E-59 DCT
HFM1	2.44E-06	0.35577754	0.998	0.993	0.004872847 DCT
AC093895.1	2.12E-95	-0.557053123	0.994	0.26	4.25E-92 DCT
KCNIP4	3.25E-13	0.479173052	0.988	0.847	6.50E-10 DCT
PDE10A	4.12E-07	0.375285581	0.972	0.819	0.000823611 DCT
LRRK2	8.78E-15	-0.376881927	0.952	0.445	1.76E-11 DCT
PSG9	2.07E-119	-0.300175777	0.951	0.199	4.14E-116 DCT
SLC8A1	5.51E-10	0.670214089	0.948	0.599	1.10E-06 DCT
AC092078.2	1.03E-10	-0.53923474	0.939	0.453	2.07E-07 DCT
FKBP5	1.55E-88	-0.260743885	0.938	0.231	3.10E-85 DCT
PTCHD1-AS	7.38E-24	-0.387451903	0.936	0.406	1.48E-20 DCT
EFEMP1	7.59E-40	-0.256782686	0.909	0.303	1.52E-36 DCT
MEPE	3.12E-43	-0.370321298	0.88	0.263	6.23E-40 DCT
SLC5A12	4.62E-87	-0.379224167	0.875	0.175	9.24E-84 DCT
DNER	2.16E-16	0.482664323	0.868	0.473	4.32E-13 DCT
ACSM2A	1.36E-47	-0.593186093	0.849	0.227	2.72E-44 DCT
KCNH7	3.52E-57	-0.319097216	0.848	0.213	7.03E-54 DCT
PRODH2	3.54E-141	-0.335954605	0.844	0.08	7.07E-138 DCT

FTCD	6.79E-91	-0.411408369	0.822	0.118	1.36E-87 DCT
ACSM2B	1.54E-38	-0.647870757	0.802	0.199	3.09E-35 DCT
ATP1B3	2.91E-06	0.291200248	0.795	0.429	0.005821843 DCT
SLC8A1-AS1	3.27E-07	0.734700295	0.768	0.387	0.000653437 DCT
MIOX	3.37E-42	-0.398310276	0.737	0.116	6.74E-39 DCT
FAM155A	2.90E-10	0.316266915	0.725	0.278	5.79E-07 DCT
CUBN	3.27E-06	-0.419775873	0.594	0.316	0.006539359 DCT
LINC01098	1.56E-20	0.329520369	0.443	0.167	3.11E-17 DCT
CASC22	4.79E-24	0.28409816	0.415	0.091	9.58E-21 DCT
KCNIP1	1.53E-19	-0.283871134	0.99	0.335	3.06E-16 CD-PC
AC004784.1	2.75E-10	-0.59051504	0.981	0.397	5.49E-07 CD-PC
PSG4	3.05E-13	-0.505330663	0.973	0.371	6.10E-10 CD-PC
PALM2AKAP2	1.61E-10	0.263654075	0.951	0.468	3.21E-07 CD-PC
SLC39A8	2.18E-10	-0.351809161	0.948	0.365	4.37E-07 CD-PC
MIR222HG	5.43E-33	-0.49154316	0.942	0.216	1.09E-29 CD-PC
MIOX	8.43E-62	-0.250388262	0.926	0.097	1.69E-58 CD-PC
SYN3	2.70E-13	-0.434200199	0.918	0.319	5.40E-10 CD-PC
TUFT1	5.04E-12	-0.31575626	0.911	0.335	1.01E-08 CD-PC
DEFB1	8.54E-06	-0.376237937	0.878	0.374	0.017078192 CD-PC
ASS1	1.45E-22	-0.316284753	0.864	0.194	2.91E-19 CD-PC
DDIT3	1.78E-07	-0.381069893	0.808	0.271	0.000355515 CD-PC
PSG5	1.28E-12	-0.306027949	0.775	0.294	2.57E-09 CD-PC
INSIG1	1.77E-19	-0.310376168	0.765	0.129	3.54E-16 CD-PC
ALAS1	2.04E-14	-0.361653135	0.755	0.139	4.08E-11 CD-PC
KLF10	4.50E-15	-0.282963856	0.75	0.171	9.00E-12 CD-PC
SLC14A2	1.85E-10	-0.29841899	0.742	0.161	3.71E-07 CD-PC
AC117386.2	1.69E-14	0.264509456	0.713	0.09	3.38E-11 CD-PC
SLC12A1	4.15E-08	0.261078843	0.685	0.129	8.31E-05 CD-PC
H2AC18	8.94E-06	0.626521669	0.635	0.1	0.017880811 CD-PC
S100A2	4.80E-06	-0.443708417	0.635	0.081	0.009594651 CD-PC
AQP3	1.54E-05	-0.463307521	0.633	0.516	0.030831904 CD-PC
NR4A1	2.57E-06	-0.625811346	0.608	0.477	0.005133609 CD-PC
COL4A1	3.50E-07	-0.416386392	0.538	0.442	0.000699034 CD-PC
KRT19	7.34E-06	-0.305576829	0.526	0.29	0.014679861 CD-PC
ATF3	2.09E-08	-0.493749463	0.513	0.326	4.18E-05 CD-PC
MIDN	3.00E-07	-0.348261974	0.482	0.213	0.000599617 CD-PC
ROBO2	1.19E-05	0.470198369	0.447	0.132	0.023780362 CD-PC
FAM155A	7.43E-06	0.546391379	0.439	0.132	0.01486503 CD-PC
SAMD4A	5.76E-19	-0.396807555	0.435	0.371	1.15E-15 CD-PC
TMTC1	7.02E-09	-0.295092336	0.429	0.116	1.40E-05 CD-PC
AC020916.1	2.66E-13	-0.297816616	0.425	0.2	5.33E-10 CD-PC
SLC7A8	7.20E-10	0.299678961	0.419	0.181	1.44E-06 CD-PC
S100A6	1.24E-18	-0.852348067	0.414	0.261	2.49E-15 CD-PC
EDN2	1.17E-05	-0.376973774	0.398	0.052	0.023432588 CD-PC
ID3	7.52E-12	0.272481557	0.375	0.052	1.50E-08 CD-PC
LRRTM4	1.24E-13	0.320182559	0.373	0.094	2.48E-10 CD-PC
ELF3	1.61E-26	-0.531546913	0.34	0.242	3.22E-23 CD-PC
IER3	1.88E-26	-0.301498924	0.334	0.223	3.75E-23 CD-PC
AC015522.1	8.89E-34	0.651274636	0.256	0.026	1.78E-30 CD-PC
TMEM101	8.44E-14	-0.608053854	1	0.333	1.69E-10 CD-ICB
SRGAP1	1.27E-06	-0.264920597	1	0.411	0.002545802 CD-ICB
UNC5C	2.35E-06	-0.256811467	1	0.42	0.004702473 CD-ICB
KCNQ3	7.91E-15	-0.604218671	0.996	0.333	1.58E-11 CD-ICB
KCNH5	6.32E-25	-0.332846988	0.996	0.251	1.26E-21 CD-ICB
ERRFI1	4.27E-07	-0.273131643	0.996	0.446	0.000853572 CD-ICB
EGF	1.99E-44	-0.491326452	0.993	0.156	3.98E-41 CD-ICB
SORCS1	6.46E-36	-0.267902885	0.961	0.165	1.29E-32 CD-ICB
BRINP3	5.32E-21	-0.251469507	0.958	0.242	1.06E-17 CD-ICB
ATP1B3	1.06E-24	0.348229978	0.951	0.247	2.13E-21 CD-ICB
SLC12A1	3.08E-36	-0.282168853	0.937	0.139	6.16E-33 CD-ICB

HPSE	4.36E-19	-0.416988039	0.905	0.212	8.73E-16 CD-ICB
GPC3	9.69E-18	-0.364747564	0.898	0.216	1.94E-14 CD-ICB
ITPRID1	2.01E-08	0.395991605	0.891	0.377	4.02E-05 CD-ICB
NLGN1	5.94E-06	0.318899259	0.88	0.403	0.011878488 CD-ICB
C5orf17	1.32E-13	-0.314644539	0.866	0.221	2.64E-10 CD-ICB
OSBPL6	5.51E-11	-0.500588745	0.838	0.216	1.10E-07 CD-ICB
ADARB2	5.06E-06	0.413703622	0.838	0.333	0.01012184 CD-ICB
ZNF385B	1.22E-13	0.461159141	0.831	0.199	2.44E-10 CD-ICB
UGCG	3.52E-07	0.27309882	0.831	0.32	0.000703833 CD-ICB
ZFP36	8.40E-14	0.307810975	0.796	0.16	1.68E-10 CD-ICB
THBS1	9.34E-10	0.26134168	0.704	0.082	1.87E-06 CD-ICB
ELOVL5	9.54E-07	-0.263187628	0.486	0.333	0.001908785 CD-ICB
GRIN2A	1.92E-05	0.303780549	0.454	0.199	0.038363172 CD-ICB
EIF2AK3	5.64E-07	0.446435216	0.423	0.238	0.00112896 CD-ICB
ERO1B	7.97E-09	0.32157913	0.412	0.195	1.59E-05 CD-ICB
S100A6	1.07E-09	0.313585607	0.408	0.29	2.15E-06 CD-ICB
FREM2	2.81E-10	-0.289548202	0.384	0.113	5.62E-07 CD-ICB
MIR4435-2HG	2.81E-11	0.374772344	0.377	0.216	5.61E-08 CD-ICB
AC013652.1	2.64E-10	0.40347904	0.37	0.113	5.28E-07 CD-ICB
ELF3	1.44E-11	0.402134789	0.37	0.177	2.87E-08 CD-ICB
EGR1	9.30E-11	0.389565967	0.37	0.139	1.86E-07 CD-ICB
H3-3B	7.70E-12	0.26674166	0.363	0.143	1.54E-08 CD-ICB
AC074286.1	4.65E-12	0.334666467	0.359	0.139	9.31E-09 CD-ICB
S100A2	3.45E-12	0.659153996	0.345	0.078	6.90E-09 CD-ICB
ZDHHC14	1.26E-17	-0.26107876	0.331	0.16	2.51E-14 CD-ICB
NRG1	2.45E-22	-0.294728448	0.285	0.1	4.90E-19 CD-ICB
SOX2-OT	8.07E-26	-0.291520611	0.278	0.221	1.61E-22 CD-ICB
CYTOR	9.04E-24	0.475092308	0.261	0.074	1.81E-20 CD-ICB
HSPA5	3.36E-30	0.383010655	0.225	0.091	6.72E-27 CD-ICB
SOX4	6.89E-33	0.250968358	0.211	0.03	1.38E-29 CD-ICB
AL031599.1	3.84E-106	-0.401439452	1	0.184	7.67E-103 CD-ICA
LINC01187	1.45E-07	0.271972288	1	0.917	0.000289286 CD-ICA
PSD3	3.68E-10	0.403134096	0.998	0.902	7.36E-07 CD-ICA
ADAMTSL1	4.59E-06	0.36489492	0.998	0.854	0.009174287 CD-ICA
NPSR1-AS1	1.48E-38	-0.263817437	0.998	0.33	2.96E-35 CD-ICA
ABCC4	1.78E-06	0.256865845	0.998	0.928	0.003550635 CD-ICA
ITPRID1	3.18E-20	0.330937959	0.994	0.497	6.35E-17 CD-ICA
ACSM2B	2.25E-77	-0.412513468	0.993	0.229	4.50E-74 CD-ICA
LEF1	4.54E-13	0.489972758	0.991	0.718	9.09E-10 CD-ICA
GRIP1	1.99E-08	0.357211614	0.991	0.854	3.99E-05 CD-ICA
GULP1	8.37E-08	0.337949476	0.989	0.746	0.00016733 CD-ICA
MIR2052HG	6.55E-150	-0.283810349	0.989	0.117	1.31E-146 CD-ICA
KCNJ15	3.14E-40	-0.309447133	0.981	0.311	6.28E-37 CD-ICA
PRODH2	3.98E-149	-0.25402222	0.978	0.109	7.95E-146 CD-ICA
LINC02343	1.93E-07	0.381854226	0.976	0.663	0.000385628 CD-ICA
CAVIN2-AS1	6.66E-177	-0.254204154	0.974	0.084	1.33E-173 CD-ICA
CA12	1.04E-05	0.259712658	0.941	0.874	0.020850947 CD-ICA
MIOX	1.04E-88	-0.41468752	0.924	0.149	2.08E-85 CD-ICA
FTCD	1.30E-74	-0.555835076	0.922	0.174	2.59E-71 CD-ICA
SLC4A1	1.31E-13	0.327211385	0.916	0.472	2.62E-10 CD-ICA
RALYL	1.80E-10	-0.334695472	0.894	0.381	3.59E-07 CD-ICA
UNC5D	4.18E-07	-0.324188289	0.877	0.413	0.000836929 CD-ICA
SLC6A13	7.00E-75	-0.273560113	0.877	0.133	1.40E-71 CD-ICA
SLCO5A1	1.47E-05	0.332788898	0.859	0.571	0.029361867 CD-ICA
EYA4	4.82E-34	-0.27273852	0.859	0.225	9.64E-31 CD-ICA
MARCHF1	1.37E-26	-0.593305627	0.857	0.26	2.74E-23 CD-ICA
ACSM2A	3.19E-24	-0.512061779	0.848	0.249	6.38E-21 CD-ICA
SLC12A3	6.79E-19	-0.437158002	0.831	0.265	1.36E-15 CD-ICA
LDLR	7.82E-33	0.256021279	0.745	0.112	1.56E-29 CD-ICA
STAC2	2.69E-09	0.250280511	0.729	0.247	5.38E-06 CD-ICA

LINC01482	3.92E-20	-0.252274615	0.706	0.11	7.83E-17 CD-ICA
SLC12A1	1.60E-05	-0.275787202	0.647	0.144	0.031926568 CD-ICA
ACTG1	6.84E-07	0.288200083	0.513	0.299	0.001367819 CD-ICA
LINC00871	3.83E-08	-0.329935419	0.509	0.197	7.67E-05 CD-ICA
HSP90B1	5.70E-10	0.838452091	0.494	0.313	1.14E-06 CD-ICA
SQSTM1	4.51E-13	0.289751542	0.454	0.236	9.03E-10 CD-ICA
SLC8A1-AS1	4.88E-25	-0.462917767	0.437	0.298	9.76E-22 CD-ICA
CACNA2D3	1.62E-22	-0.257760615	0.42	0.166	3.24E-19 CD-ICA
RGS6	1.34E-20	-0.284672488	0.403	0.103	2.68E-17 CD-ICA
SOX5	3.18E-33	-0.250500499	0.39	0.243	6.36E-30 CD-ICA
GALNTL6	8.93E-27	0.463769488	0.385	0.127	1.79E-23 CD-ICA
ELF3	9.59E-25	0.432849652	0.375	0.116	1.92E-21 CD-ICA
SPARCL1	9.94E-30	0.297447985	0.374	0.175	1.99E-26 CD-ICA
EGR1	6.28E-30	0.480576224	0.359	0.089	1.26E-26 CD-ICA
TMTC1	3.86E-35	0.288493659	0.351	0.199	7.72E-32 CD-ICA
DDIT3	7.54E-34	0.370990816	0.346	0.097	1.51E-30 CD-ICA
HSPA5	2.08E-37	0.482079246	0.342	0.163	4.16E-34 CD-ICA
SPP1	9.19E-55	0.307041212	0.297	0.088	1.84E-51 CD-ICA
PPM1E	2.03E-62	0.428423425	0.275	0.058	4.06E-59 CD-ICA
ANO4	3.89E-128	0.40562213	0.165	0.052	7.78E-125 CD-ICA

Table S3. Top 3 GO and top 5 KEGG enrichment in DEGs of scRNA-seq data

ID	Classification	Classification	P-value	Count	regulation
GO:0007155	GO-BP	cell adhesion	4.25E-10	48	UP
GO:0030198	GO-BP	extracellular matrix organization	1.17E-09	29	UP
GO:0001666	GO-BP	response to hypoxia	7.29E-06	21	UP
GO:0001655	GO-BP	urogenital system development	3.47E-11	30	DOWN
GO:0001822	GO-BP	kidney development	3.51E-11	28	DOWN
GO:0045926	GO-BP	negative regulation of growth	4.78E-11	26	DOWN
GO:0005886	GO-CC	plasma membrane	3.27E-20	251	UP
GO:0005887	GO-CC	integral component of plasma membrane	3.33E-12	104	UP
GO:0005578	GO-CC	proteinaceous extracellular matrix	1.75E-10	35	UP
GO:0045177	GO-CC	apical part of cell	6.69E-10	32	DOWN
GO:0062023	GO-CC	collagen-containing extracellular matrix	1.14E-09	32	DOWN
GO:0016324	GO-CC	apical plasma membrane	4.03E-09	28	DOWN
GO:0044325	GO-MF	ion channel binding	6.86E-05	15	UP
GO:0005201	GO-MF	extracellular matrix structural constituent	1.58E-04	11	UP
GO:0050839	GO-MF	cell adhesion molecule binding	4.14E-04	10	UP
GO:0046873	GO-MF	metal ion transmembrane transporter activity	1.41E-13	39	DOWN
GO:0015291	GO-MF	secondary active transmembrane transporter activity	1.46E-07	21	DOWN
GO:0015293	GO-MF	symporter activity	1.74E-07	16	DOWN
hsa04510	KEGG	Focal adhesion	0.001431117	206	UP
hsa04514	KEGG	Cell adhesion molecules (CAMs)	0.002452309	142	UP
hsa04020	KEGG	Calcium signaling pathway	0.004017716	179	UP
hsa04151	KEGG	PI3K-Akt signaling pathway	0.005444036	345	UP
hsa04350	KEGG	TGF-beta signaling pathway	0.005445321	84	UP
hsa04978	KEGG	Mineral absorption	9.85E-09	60	DOWN

hsa04020	KEGG	Calcium signaling pathway	4.75E-06	240	DOWN
hsa04933	KEGG	AGE-RAGE signaling pathway in diabetic complications	0.00055677	100	DOWN
hsa04360	KEGG	Axon guidance	0.002154408	182	DOWN
hsa04614	KEGG	Renin-angiotensin system	0.003790344	23	DOWN

Table S4. Differentially expressed genes between normal and DKD samples in RNA-seq dataset GSE142025. ($\log_2|\text{fold change}|>1$ & $\text{fdr}<0.05$)

gene	Control_Mean	DKD_Mean	logFC	P-Value	fdr
A1CF	12.33214969	11.31925384	-1.012895844	1.78E-05	0.000205405
ABCA13	5.2127975	7.824244459	2.611446959	6.14E-05	0.000493555
ABCA5	11.75060013	10.67370363	-1.076896504	4.25E-08	5.08E-06
ABCC11	4.849422444	3.6074133	-1.242009144	0.014363836	0.031427397
ABCC9	10.32655727	11.3793673	1.052810033	2.32E-05	0.000244525
ABRA	5.153607344	6.480301111	1.326693767	2.55E-07	1.37E-05
ACKR1	6.638152233	9.095325719	2.457173485	0.000218157	0.001239939
ACOT12	8.602824011	7.221895244	-1.380928767	7.63E-06	0.000114982
ACTG2	2.825614611	4.632425485	1.806810874	0.009486163	0.022733565
ADAM12	8.8278102	10.01318043	1.18537023	9.58E-05	0.000677876
ADAM19	9.163101911	10.3156327	1.152530789	0.005281184	0.014283284
ADAM33	7.400367478	8.46783937	1.067471893	9.58E-05	0.000677876
ADAMTS17	9.917669089	8.623722333	-1.293946756	5.63E-06	9.22E-05
ADAMTS19	8.390299356	6.740195633	-1.650103722	7.63E-06	0.000114982
ADAMTS2	9.049490067	10.32930623	1.279816159	2.32E-05	0.000244525
ADAMTS4	9.815865422	7.832169359	-1.983696063	0.00307561	0.009346062
ADCY7	10.04416172	11.27008563	1.225923911	0.000774288	0.003234177
ADCYAP1R1	2.830482167	4.918022052	2.087539885	6.14E-05	0.000493555
ADD2	4.027513011	5.03739473	1.009881719	0.015581059	0.033436314
ADGRE1	4.692812367	5.858091352	1.165278985	0.006008756	0.015730247
ADGRE2	8.006509078	9.051553259	1.045044181	0.017390195	0.036515989
ADH1B	10.7880411	12.20465848	1.416617378	5.63E-06	9.22E-05
ADM	10.9773636	9.958345293	-1.019018307	0.000549885	0.002497649
ADORA3	4.662049022	5.815959078	1.153910056	0.000549885	0.002497649
ADRA2A	7.924352278	9.441408863	1.517056585	6.14E-05	0.000493555
ADRB2	7.010593033	8.107435981	1.096842948	0.001473392	0.00531078
AEBP1	12.78553297	13.96469196	1.179158993	0.000460787	0.00218016
AFM	12.65285651	10.85444752	-1.798408993	0.000264745	0.001432524
AGAP2	6.792865311	8.26834417	1.475478859	0.001075106	0.004146384
AGMO	9.398609444	8.387753963	-1.010855481	7.63E-06	0.000114982
AHNAK2	9.130979878	10.74435636	1.613376481	0.000178961	0.001075178
AKNA	10.86311254	12.05049215	1.187379607	0.003534166	0.01039411
ALB	13.34639328	11.22491236	-2.121480915	0.000913862	0.003666212
ALDH1A3	7.027692211	8.333538744	1.305846533	3.83E-05	0.000352659
ALDH1L1-AS1	7.039298511	5.720991926	-1.318306585	0.00038469	0.001915198
ALDH1L1-AS2	8.551910322	7.526089863	-1.025820459	7.69E-05	0.000583998
ALDH1L2	7.510664589	8.529358026	1.018693437	4.87E-05	0.000416496
ALDH6A1	15.54386516	14.50610682	-1.037758337	0.000422048	0.002088054
ALOX5	8.345898544	9.809915763	1.464017219	0.001075106	0.004146384
ALOX5AP	7.129121211	8.186780837	1.057659626	0.000653663	0.002845514

ALX1	4.947894167	6.853134604	1.905240437	9.56E-07	2.89E-05
ANGPTL3	10.82754407	9.645637652	-1.181906415	0.00307561	0.009346062
ANKRD20A8P	6.645466911	4.366765859	-2.278701052	0.003468583	0.01039411
ANKRD24	9.586233633	8.489539015	-1.096694619	0.000146054	0.000925394
ANKRD36BP2	5.087327867	6.9996404	1.912312533	0.005281184	0.014283284
AOC1	15.49056116	14.43575889	-1.054802267	0.010538308	0.024773807
APCDD1	7.557815311	9.234704389	1.676889078	1.42E-06	3.74E-05
APOB	8.445080256	7.05127123	-1.393809026	0.000319768	0.001658505
APOBEC3G	7.449869667	8.688677556	1.238807889	4.87E-05	0.000416496
APOC1	6.462165822	7.530925463	1.068759641	0.021539551	0.043500221
APOC3	8.682986889	6.839985789	-1.8430011	0.000653663	0.002845514
APOH	9.9902918	8.013365963	-1.976925837	4.87E-05	0.000416496
AQP5	7.711732944	6.570928048	-1.140804896	2.32E-05	0.000244525
AQP6	11.52404472	10.44696648	-1.077078244	0.000460787	0.00218016
ARC	7.031117044	5.334294641	-1.696822404	0.000208615	0.001239939
ARHGAP15	7.665676444	8.887754885	1.222078441	0.002669612	0.008400777
ARHGAP22	6.964294244	8.1595825	1.195288256	0.001473392	0.00531078
ARHGAP30	9.392024244	10.71277007	1.32074583	0.00307561	0.009346062
ARHGAP40	6.367429156	7.927165448	1.559736293	0.000549885	0.002497649
ARHGAP9	8.355155111	9.809859233	1.454704122	0.001473392	0.00531078
ARHGDIB	10.96088553	11.96502595	1.004140419	3.83E-05	0.000352659
ARL11	5.334900156	6.808580552	1.473680396	4.87E-05	0.000416496
ARL4C	9.112145822	10.276766	1.164620181	0.01755823	0.036781999
ARNTL2	6.332939622	7.69466603	1.361726407	0.001260525	0.00468919
ARPC1B	10.51652252	11.61995372	1.1034312	0.000118628	0.000798045
ARPP21	6.690028	5.587333344	-1.102694656	0.019372344	0.039844
ASB15	10.08213772	7.961217733	-2.120919989	0.000146054	0.000925394
ASPA	10.96906732	9.897118611	-1.071948711	4.87E-05	0.000416496
ATF3	11.62255478	8.023168178	-3.5993866	2.12E-08	4.42E-06
ATOH7	5.691920178	4.365007385	-1.326912793	0.019372344	0.039844
ATP12A	9.415276911	7.790062926	-1.625213985	0.005281184	0.014283284
ATP6V0D2	12.09732534	10.74658345	-1.350741896	4.08E-06	7.53E-05
ATP6V1B1-AS1	9.501647644	8.353424074	-1.14822357	0.003534166	0.01039411
ATP6V1G3	8.340829278	7.001433915	-1.339395363	1.42E-06	3.74E-05
ATP8B2	10.70086954	11.89289293	1.192023389	1.42E-06	3.74E-05
B3GALT5	5.0260178	6.611103189	1.585085389	2.32E-05	0.000244525
BATF	3.660670656	5.541276315	1.880605659	0.002310776	0.007501587
BATF3	5.552563322	6.581095811	1.028532489	0.000178961	0.001075178
BCL11A	6.000082489	7.339066652	1.338984163	0.00984202	0.023183842
BCL11B	7.752953589	9.060554633	1.307601044	0.000264745	0.001432524
BEND4	3.945934367	5.199164544	1.253230178	0.001075765	0.004146384
BEST1	7.531746156	8.8210695	1.289323344	2.12E-08	4.42E-06
BHLHE40	13.62355478	12.46414767	-1.159407104	4.25E-08	5.08E-06

BIN2	7.996592644	9.115702793	1.119110148	0.006008756	0.015730247
BLK	5.136583211	6.96151667	1.824933459	0.00307561	0.009346062
BPI	7.393240644	6.18407833	-1.209162315	0.011073759	0.025492733
BRE-AS1	8.268543711	6.859700385	-1.408843326	7.63E-06	0.000114982
BTG2	13.22628386	11.78225789	-1.444025963	1.49E-07	9.92E-06
BTK	6.899271556	8.399807759	1.500536204	0.001473392	0.00531078
C10orf105	5.488932422	6.663357437	1.174425015	0.000460787	0.00218016
C10orf126	7.070503356	5.841921985	-1.22858137	0.001260525	0.00468919
C10orf128	7.310469433	8.851354581	1.540885148	1.36E-05	0.000170337
C11orf21	6.3125772	7.823775815	1.511198615	0.003534166	0.01039411
C11orf87	6.148432733	3.967394937	-2.181037796	0.007724375	0.019082698
C16orf54	6.850319533	8.542250796	1.691931263	0.001473392	0.00531078
C1QA	10.23935414	11.79223606	1.552881915	7.69E-05	0.000583998
C1QB	9.958126544	11.33299958	1.374873033	0.000460787	0.00218016
C1QC	10.28154371	11.69884523	1.417301519	0.00038469	0.001915198
C1QL1	6.979903289	5.513377948	-1.466525341	0.001075106	0.004146384
C1QTNF7	10.03121711	9.01059883	-1.020618281	0.000549885	0.002497649
C1R	11.35158157	12.83818146	1.486599889	3.83E-05	0.000352659
C1S	11.34683039	13.02215654	1.675326148	4.87E-05	0.000416496
C2orf54	10.47827016	8.799380274	-1.678889881	0.019372344	0.039844
C2orf71	7.758347678	6.060308756	-1.698038922	6.14E-05	0.000493555
C3	10.90777243	12.80551323	1.897740796	0.001994725	0.006703936
C3orf80	3.1736251	4.5820058	1.4083807	0.003895688	0.011415893
C7	14.89541542	15.92008013	1.024664707	0.000295355	0.001593303
C9orf66	11.29516181	10.20257835	-1.092583459	0.000218157	0.001239939
CA8	9.013142233	7.649419785	-1.363722448	4.04E-07	1.75E-05
CACNA1E	10.70544922	9.438341937	-1.267107285	0.004050528	0.011607841
CACNB4	9.503174344	8.186023326	-1.317151019	2.06E-06	4.71E-05
CADM3	5.1543059	7.46433703	2.31003113	5.63E-06	9.22E-05
CADM3-AS1	2.360052078	4.749357333	2.389305256	0.000178961	0.001075178
CALB1	12.99860407	10.99391269	-2.004691374	6.37E-07	2.28E-05
CALCR	8.099282389	6.773383652	-1.325898737	1.78E-05	0.000205405
CAMK2A	9.281644389	8.058237204	-1.223407185	0.000913862	0.003666212
CAMK2B	9.0487346	7.865965519	-1.182769081	0.000218157	0.001239939
CAMK4	7.170090456	8.42003773	1.249947274	7.69E-05	0.000583998
CAPN6	6.9513505	8.729255152	1.777904652	1.78E-05	0.000205405
CAPN8	5.335695589	6.370380337	1.034684748	0.012434026	0.027890332
CARD11	7.821391789	9.379212093	1.557820304	0.006820434	0.01737225
CARMIL2	6.650241567	8.154137148	1.503895581	0.001994725	0.006703936
CBARP	8.463451633	7.082066315	-1.381385319	0.000118628	0.000798045
CCDC129	6.825218156	5.319807063	-1.505411093	2.93E-06	6.06E-05
CCDC141	7.1521731	8.517090267	1.364917167	3.83E-05	0.000352659
CCDC144A	6.425872122	4.687080374	-1.738791748	0.002310776	0.007501587
CCDC3	8.628975022	9.773059819	1.144084796	2.06E-06	4.71E-05

CCDC68	8.161369089	7.093740104	-1.067628985	6.37E-07	2.28E-05
CCDC80	10.23532364	11.64378107	1.408457422	4.08E-06	7.53E-05
CCDC88B	8.7243066	9.968910796	1.244604196	0.007724375	0.019082698
CCL11	5.145652211	6.290786526	1.145134315	0.001075106	0.004146384
CCL13	3.408471256	4.757228019	1.348756763	0.000460787	0.00218016
CCL18	2.877541022	4.510185552	1.63264453	0.021539551	0.043500221
CCL19	6.291406011	9.548851426	3.257445415	0.000944832	0.003780979
CCL21	7.897609656	10.52219175	2.624582093	2.32E-05	0.000244525
CCL3	6.772542433	4.890306674	-1.882235759	0.000549885	0.002497649
CCL5	7.840762078	9.0598282	1.219066122	0.001994725	0.006703936
CCND2	10.60071577	12.0999016	1.499185837	1.78E-05	0.000205405
CCR2	6.884678844	9.070185767	2.185506922	2.32E-05	0.000244525
CCR4	5.140052856	6.652391167	1.512338311	0.001575974	0.005648741
CCR5	6.647948511	8.158510348	1.510561837	0.001473392	0.00531078
CCR7	6.194622022	7.671643485	1.477021463	0.006820434	0.01737225
CD163	10.2962979	11.31758932	1.021291419	0.011073759	0.025492733
CD163L1	8.104322744	9.488203419	1.383880674	0.000774288	0.003234177
CD180	5.998786778	7.75431617	1.755529393	0.000146054	0.000925394
CD19	5.131119011	6.662099011	1.53098	0.006820434	0.01737225
CD1C	5.790598978	8.019138715	2.228539737	4.87E-05	0.000416496
CD1D	5.7878925	7.28215273	1.49426023	0.000460787	0.00218016
CD1E	4.257849044	6.167719444	1.9098704	0.006490941	0.016928889
CD2	6.352683989	8.267703352	1.915019363	0.000653663	0.002845514
CD200R1	5.476632733	6.893206981	1.416574248	0.000944832	0.003780979
CD209	7.8290064	9.207645426	1.378639026	0.000913862	0.003666212
CD22	7.3825472	8.498375952	1.115828752	0.004630835	0.012878433
CD244	5.192443767	6.750996322	1.558552556	0.000319768	0.001658505
CD247	6.179956789	7.582005259	1.40204847	0.00307561	0.009346062
CD27	5.884159367	7.232600211	1.348440844	9.98E-05	0.000705623
CD28	6.982748822	8.307880141	1.325131319	0.001994725	0.006703936
CD300A	6.791478356	7.891137881	1.099659526	0.003534166	0.01039411
CD300C	5.346645056	6.356146337	1.009501281	0.000549885	0.002497649
CD300LF	5.475010811	6.757774363	1.282763552	0.000460787	0.00218016
CD33	6.467423678	7.838555004	1.371131326	0.000218157	0.001239939
CD3D	4.902092267	7.008160041	2.106067774	0.000218157	0.001239939
CD3E	6.985977433	8.52683027	1.540852837	0.00984202	0.023183842
CD3G	5.255133044	6.672426489	1.417293444	0.006008756	0.015730247
CD4	10.19317241	11.27678619	1.083613774	0.000319768	0.001658505
CD40LG	4.715485411	5.967160833	1.251675422	0.006858785	0.017406247
CD48	6.918694533	8.927105281	2.008410748	0.000653663	0.002845514
CD5	7.641876067	8.676837344	1.034961278	0.001260525	0.00468919
CD52	5.207623033	6.961974981	1.754351948	0.001994725	0.006703936
CD53	8.681854956	10.10673372	1.424878767	0.002669612	0.008400777
CD6	7.232906322	8.678985274	1.446078952	0.008728547	0.021002819

CD7	5.590110067	7.195828215	1.605718148	0.001473392	0.00531078
CD79A	5.724765411	8.036221141	2.31145573	0.001075106	0.004146384
CD79B	6.292710211	8.078054374	1.785344163	7.69E-05	0.000583998
CD80	5.160604778	6.376415141	1.215810363	7.63E-06	0.000114982
CD84	8.490498656	9.92630803	1.435809374	0.001716851	0.005987476
CD8A	6.738865978	8.077990759	1.339124781	0.001260525	0.00468919
CD96	6.618562433	7.909143307	1.290580874	0.011073759	0.025492733
CDC20	6.559541844	7.562041567	1.002499722	1.42E-06	3.74E-05
CDC20B	7.387731744	6.030965074	-1.35676667	0.001260525	0.00468919
CDH11	10.38381627	11.49339539	1.109579122	0.000319768	0.001658505
CDH19	5.502126422	4.179335633	-1.322790789	1.78E-05	0.000205405
CDH20	9.314210622	7.960671144	-1.353539478	0.005281184	0.014283284
CDFN	7.529288444	6.519111689	-1.010176756	0.000146054	0.000925394
CEACAM21	5.222867667	6.517354015	1.294486348	0.000394196	0.001952805
CEACAM4	4.209137789	5.281430948	1.072293159	0.005808024	0.015628954
CEL	9.826213978	7.993973244	-1.832240733	0.000319768	0.001658505
CFD	7.439540844	9.599079633	2.159538789	3.11E-05	0.000305214
CFHR1	3.262918256	6.569519048	3.306600793	2.06E-06	4.71E-05
CFP	6.340866689	7.617240559	1.27637387	0.000460787	0.00218016
CHAD	11.59785884	10.40634663	-1.191512211	9.58E-05	0.000677876
CHI3L1	10.40923698	8.657188941	-1.752048037	5.63E-06	9.22E-05
CHI3L2	3.881866456	6.109057789	2.227191333	4.87E-05	0.000416496
CHP2	8.272734856	6.596147996	-1.676586859	0.00984202	0.023183842
CHRM3-AS2	6.598703467	5.204969037	-1.39373443	2.12E-08	4.42E-06
CHRNA4	10.68741641	9.471592111	-1.2158243	0.001716851	0.005987476
CHRN2	6.799499944	7.959765767	1.160265822	1.42E-06	3.74E-05
CHRN4	6.516380444	5.330063307	-1.186317137	0.000264745	0.001432524
CHST15	10.04996629	11.11264311	1.062676819	7.63E-06	0.000114982
CIB2	7.470002967	8.561040011	1.091037044	3.00E-05	0.000295866
CIDEC	0.840623189	3.768894989	2.9282718	0.007237761	0.018349216
CILP	6.676426844	7.809328	1.132901156	0.000118628	0.000798045
CLDN8	10.68481406	9.575298496	-1.109515559	5.63E-06	9.22E-05
CLEC10A	7.197792911	9.256842933	2.059050022	6.14E-05	0.000493555
CLEC17A	4.553410333	5.976332481	1.422922148	0.023500502	0.047263728
CLEC4C	1.584034544	4.021489041	2.437454496	0.006008756	0.015730247
CLIC5	13.47221734	12.25551832	-1.216699022	7.69E-05	0.000583998
CLIC6	7.071278744	8.328516437	1.257237693	0.001389359	0.005136232
CLNK	10.56178561	9.433994059	-1.127791552	1.42E-06	3.74E-05
CNNM1	6.535977311	7.971970796	1.435993485	4.25E-08	5.08E-06
CNR2	3.071346689	5.407100981	2.335754293	0.00038469	0.001915198
CNTNAP5	7.460067633	6.064800526	-1.395267107	0.000653663	0.002845514
COL14A1	10.99207379	12.52046487	1.528391085	2.93E-06	6.06E-05
COL15A1	10.95469014	11.95628115	1.001591007	0.001473392	0.00531078
COL16A1	10.60999892	11.86115161	1.251152685	0.001479958	0.005317687

COL1A1	11.80353904	13.79580516	1.992266115	0.000218157	0.001239939
COL1A2	12.73902318	14.24486621	1.50584303	0.000298025	0.001598018
COL3A1	12.48482439	14.34333914	1.858514748	0.000194067	0.001160272
COL5A1	10.66195622	12.18291671	1.520960485	7.69E-05	0.000583998
COL6A3	11.51791641	13.5073033	1.989386885	5.63E-06	9.22E-05
COL6A4P2	9.660073044	8.288574867	-1.371498178	4.87E-05	0.000416496
COL6A5	1.908552056	5.178802967	3.270250911	0.00038469	0.001915198
COL8A1	8.959229056	10.03480419	1.075575137	0.002669612	0.008400777
COL8A2	6.745708467	8.066667185	1.320958719	3.83E-05	0.000352659
COMP	5.992262711	7.252170359	1.259907648	0.001223312	0.00468912
CORO1A	9.0911919	10.8071116	1.715919696	0.000913862	0.003666212
CP	7.988462033	9.47377213	1.485310096	0.001075106	0.004146384
CPA3	5.861161889	7.679366148	1.818204259	0.004050528	0.011607841
CPA4	3.049040978	5.082061367	2.033020389	0.008524606	0.02093045
CPXM1	8.080663933	9.428111237	1.347447304	0.00984202	0.023183842
CPZ	6.4123979	8.05477587	1.64237797	9.58E-05	0.000677876
CR2	10.66337946	8.539779581	-2.123599874	0.001075106	0.004146384
CRABP1	7.947589811	6.142875637	-1.804714174	0.000913862	0.003666212
CRACR2A	6.892071989	8.060477341	1.168405352	2.06E-06	4.71E-05
CREB3L3	7.800857533	6.203599259	-1.597258274	0.001260525	0.00468919
CRHBP	10.84785521	9.777348278	-1.070506933	9.58E-05	0.000677876
CRLF1	5.617943733	7.357226	1.739282267	7.63E-06	0.000114982
CRTAM	3.851721889	5.168588133	1.316866244	0.002310776	0.007501587
CSF1R	11.12732497	12.2571714	1.12984643	0.002425828	0.007852797
CSF2RB	8.586599178	9.894864274	1.308265096	0.005281184	0.014283284
CSMD3	5.493930211	4.096103144	-1.397827067	0.008728547	0.021002819
CSRNP1	11.41513701	10.21259812	-1.202538889	2.93E-06	6.06E-05
CST6	3.439257756	4.999418959	1.560161204	0.021539551	0.043500221
CTD-3080P12.3	9.856079122	8.283381074	-1.572698048	0.000178961	0.001075178
CTH	10.12288918	9.076068167	-1.046821011	0.000218157	0.001239939
CTNNA3	7.184064411	6.061222793	-1.122841619	0.000178961	0.001075178
CTSG	4.282999467	6.333383278	2.050383811	0.001260525	0.00468919
CTSK	8.665340178	9.72052077	1.055180593	1.36E-05	0.000170337
CTSLP8	6.3144884	4.827559352	-1.486929048	0.001075106	0.004146384
CTSS	9.801833422	11.07496479	1.273131363	0.011073759	0.025492733
CTSV	10.50472043	8.869506504	-1.63521393	0.000118628	0.000798045
CUX2	4.120331711	5.613639178	1.493307467	0.000726099	0.003136112
CXCL2	7.669911933	6.117584533	-1.5523274	0.006858785	0.017406247
CXCL3	5.321962978	4.14770387	-1.174259107	0.007651151	0.019082698
CXCL6	4.810388089	6.883232489	2.0728444	0.004630835	0.012878433
CXCR1	5.5327209	4.344860552	-1.187860348	0.001147348	0.004402156
CXCR3	5.877940333	7.436164989	1.558224656	3.00E-05	0.000295866
CXCR5	5.787639411	7.281249559	1.493610148	0.000146054	0.000925394

CXXC4-AS1	6.646022233	4.861864007	-1.784158226	0.001075106	0.004146384
CYBB	10.03230253	11.2148741	1.18257157	0.008728547	0.021002819
CYP26B1	11.03590424	8.998907222	-2.036997022	1.78E-05	0.000205405
CYP27B1	11.91612382	10.05024763	-1.865876196	4.08E-06	7.53E-05
CYP2B6	10.98362548	9.857868456	-1.125757022	0.004050528	0.011607841
CYP2C8	7.644929767	6.252652337	-1.39227743	0.000218157	0.001239939
CYP2W1	7.446635956	6.419616333	-1.027019622	0.004050528	0.011607841
CYP3A4	8.446663678	7.1651765	-1.281487178	3.00E-05	0.000295866
CYP3A5	11.90295479	10.80146389	-1.101490896	0.000653663	0.002845514
CYP3A7	6.926887711	5.228742604	-1.698145107	9.58E-05	0.000677876
CYP4A11	15.01264999	13.7278596	-1.284790393	0.0001075	0.000756011
CYP4F11	10.66995931	9.327484504	-1.342474807	0.003534166	0.01039411
CYP4F2	13.21608544	11.69841557	-1.517669878	0.000653663	0.002845514
CYP4F3	13.22296313	12.1158529	-1.107110237	0.001260525	0.00468919
CYP4Z1	7.997762178	6.244127141	-1.753635037	0.000146054	0.000925394
CYR61	13.21558312	10.96666387	-2.248919256	8.50E-08	7.43E-06
DAPP1	5.976466489	7.360305378	1.383838889	0.006008756	0.015730247
DCANP1	3.119043144	6.341527693	3.222484548	4.08E-06	7.53E-05
DDN	11.44808307	9.496274752	-1.951808315	5.63E-06	9.22E-05
DDX3Y	9.8341455	7.325249156	-2.508896344	0.004375143	0.012482254
DEF6	7.8019449	9.196806856	1.394861956	0.001994725	0.006703936
DEPDC1B	7.7992295	6.408101496	-1.391128004	1.02E-05	0.00013953
DEPDC7	9.6993153	8.220307067	-1.479008233	9.56E-07	2.89E-05
DERL3	7.805627656	9.04177743	1.236149774	0.002310776	0.007501587
DES	6.602431089	7.884420374	1.281989285	0.007724375	0.019082698
DGKA	8.797194411	10.00725003	1.210055615	0.000913862	0.003666212
DGKB	8.9673019	7.932511663	-1.034790237	0.00307561	0.009346062
DHDH	9.745982633	8.642932322	-1.103050311	0.019372344	0.039844
DHRS9	3.220362378	5.247141859	2.026779481	0.001716851	0.005987476
DKK3	10.34422584	11.47563106	1.131405219	8.50E-08	7.43E-06
DLGAP1	7.468499467	8.856464959	1.387965493	0.008077315	0.019911607
DLGAP2	9.987824744	8.356275267	-1.631549478	0.00038469	0.001915198
DMRT2	11.2141091	9.920854078	-1.293255022	2.32E-05	0.000244525
DNMT3L	8.0417178	6.895973581	-1.145744219	0.012434026	0.027890332
DOCK2	9.526597889	11.0021077	1.475509811	0.008077315	0.019911607
DOK2	7.083236233	8.396706515	1.313470281	0.000178961	0.001075178
DPEP1	15.27320343	14.10283553	-1.170367904	0.001074965	0.004146384
DPP4	13.90589111	12.7407626	-1.165128507	8.50E-08	7.43E-06
DPP6	9.735478289	8.082997422	-1.652480867	2.55E-07	1.37E-05
DRAIC	10.33671837	8.71947293	-1.617245437	0.000178961	0.001075178
DRP2	3.275294833	5.213282381	1.937987548	0.00290477	0.009088973
DUSP1	13.66630527	10.49901248	-3.167292785	4.25E-08	5.08E-06
DUSP2	8.441487533	6.497797822	-1.943689711	2.32E-05	0.000244525
DUSP5	10.34923759	9.262209504	-1.087028085	0.000319768	0.001658505

DUSP8	10.29392331	9.270601322	-1.023321989	0.000218157	0.001239939
E2F2	4.477741578	5.870206207	1.39246463	0.008728547	0.021002819
E2F7	3.687489178	4.971948085	1.284458907	0.011110171	0.025536167
EGF	13.81578759	11.90754596	-1.90824163	0.000118628	0.000798045
EGR1	13.72555057	9.699180122	-4.026370444	8.50E-08	7.43E-06
EGR2	7.880956456	6.308376167	-1.572580289	0.007724375	0.019082698
EGR3	8.3392152	5.962652074	-2.376563126	1.36E-05	0.000170337
EIF1AY	7.346166922	5.349847674	-1.996319248	0.01589401	0.034016708
ELK2AP	3.018946122	4.87033623	1.851390107	0.013932678	0.030533275
ELOVL4	7.034278211	5.87515677	-1.159121441	1.36E-05	0.000170337
EMILIN1	11.26443051	12.35564977	1.091219259	1.78E-05	0.000205405
EMILIN2	8.541497311	9.612195896	1.070698585	0.000178961	0.001075178
EMP3	8.945690778	10.04002868	1.094337904	4.08E-06	7.53E-05
EOMES	5.027386411	6.776252815	1.748866404	4.87E-05	0.000416496
EPHB2	8.409753678	9.662491719	1.252738041	8.50E-08	7.43E-06
ERFE	5.961004222	7.923794307	1.962790085	2.93E-06	6.06E-05
ERRFI1	12.45848727	10.80557471	-1.652912559	0.000178961	0.001075178
ESM1	9.226815144	7.421463	-1.805352144	1.36E-05	0.000170337
ETNPPL	7.9827826	6.273288719	-1.709493881	0.011073759	0.025492733
ETV4	7.284796833	8.554272774	1.269475941	2.06E-06	4.71E-05
F11	10.96571278	9.873321611	-1.092391167	0.001075106	0.004146384
F3	9.738708122	8.422134115	-1.316574007	6.37E-07	2.28E-05
FAAHP1	7.7481454	6.655758496	-1.092386904	0.000653663	0.002845514
FABP4	5.994825656	7.849825689	1.855000033	3.83E-05	0.000352659
FAIM2	6.027616567	7.645721785	1.618105219	4.63E-05	0.000416496
FAM129C	5.671827133	7.593159	1.921331867	0.001716851	0.005987476
FAM131B	5.007508678	6.169693148	1.16218447	0.000394196	0.001952805
FAM151A	14.17637663	12.89622454	-1.280152096	0.00437262	0.012482254
FAM153B	6.800079667	5.702516041	-1.097563626	0.000218157	0.001239939
FAM159A	4.441746067	6.003404963	1.561658896	0.001785428	0.006206359
FAM180A	7.889348733	6.794307007	-1.095041726	1.78E-05	0.000205405
FAM30A	6.351202511	8.542521548	2.191319037	0.006008756	0.015730247
FAM3D	6.710521989	5.190127889	-1.5203941	0.000460787	0.00218016
FAM3D-AS1	7.404473367	6.267546793	-1.136926574	0.000653663	0.002845514
FAM65B	9.510836544	10.58164575	1.070809204	0.015581059	0.033436314
FAM78A	7.934312678	9.32697393	1.392661252	9.58E-05	0.000677876
FAM83D	8.779942767	7.749353411	-1.030589356	0.015581059	0.033436314
FAM95A	5.997141111	3.53247743	-2.464663681	0.005281184	0.014283284
FAP	4.103895622	6.188766693	2.08487107	0.000913862	0.003666212
FASLG	4.373546344	5.537466167	1.163919822	0.006008756	0.015730247
FBLIM1	10.41087881	11.5476931	1.136814289	3.83E-05	0.000352659
FBLN1	11.1364541	12.17581855	1.039364452	7.69E-05	0.000583998
FBN1	11.48794711	12.81780822	1.329861111	1.91E-05	0.000218314
FBN3	10.12033954	8.694712719	-1.425626826	5.63E-06	9.22E-05

FBXO41	7.724348011	8.926689478	1.202341467	0.000146054	0.000925394
FCER1A	6.3552762	8.025326356	1.670050156	0.001260525	0.00468919
FCER2	3.1824043	5.266271204	2.083866904	0.000885052	0.003666212
FCGR1CP	3.201942467	4.429051707	1.227109241	0.007651151	0.019082698
FCGR2B	6.457705022	7.9391933	1.481488278	0.002669612	0.008400777
FCGR2C	7.720487356	8.870206667	1.149719311	0.001260525	0.00468919
FCHO1	6.759641456	8.13032177	1.370680315	0.004630835	0.012878433
FCMR	6.720828044	8.37578013	1.654952085	0.004630835	0.012878433
FCN3	9.819321489	8.719088522	-1.100232967	0.017390195	0.036515989
FCRL1	5.082060256	7.113447293	2.031387037	0.006820434	0.01737225
FCRL2	3.667241289	6.264076296	2.596835007	0.00038469	0.001915198
FCRL3	4.769503144	6.709134937	1.939631793	0.003677591	0.010800057
FCRL5	5.713715967	7.875160059	2.161444093	0.003534166	0.01039411
FCRL6	5.792286333	6.99099477	1.198708437	0.005281184	0.014283284
FCRLA	3.475138511	5.458228178	1.983089667	0.008728547	0.021002819
FER1L6	11.58725309	10.08755373	-1.499699363	0.001260525	0.00468919
FER1L6-AS1	7.029665578	4.768658648	-2.26100693	0.000178961	0.001075178
FER1L6-AS2	5.769156144	3.2528754	-2.516280744	0.000218157	0.001239939
FERMT3	9.159526678	10.26969732	1.110170641	0.000319768	0.001658505
FGD2	8.746928478	10.2707429	1.523814422	0.000146054	0.000925394
FGF1	12.43400349	11.37755169	-1.056451804	0.000146054	0.000925394
FGF9	10.74153398	9.654431874	-1.087102104	0.000118628	0.000798045
FHL2	9.531775256	10.56761128	1.035836026	4.87E-05	0.000416496
FLJ16779	7.195227467	8.513960174	1.318732707	0.019372344	0.039844
FLJ31356	7.390484089	5.523505337	-1.866978752	4.25E-08	5.08E-06
FMN2	9.607286489	7.434722711	-2.172563778	2.12E-08	4.42E-06
FMOD	8.880196467	10.26886295	1.388666481	2.93E-06	6.06E-05
FN1	13.27529703	14.35584898	1.080551944	0.001677697	0.005987476
FN3K	13.05059438	12.01145528	-1.039139096	4.87E-05	0.000416496
FNDC1	8.102986167	9.213446267	1.1104601	0.000460787	0.00218016
FNDC4	6.221085667	7.770645248	1.549559581	2.06E-06	4.71E-05
FOLH1	10.96363697	9.761796107	-1.201840859	1.78E-05	0.000205405
FOLH1B	9.7027696	8.288571248	-1.414198352	0.000460787	0.00218016
FOLR2	8.207715111	9.487954789	1.280239678	0.000224182	0.00126923
FOS	13.90810654	9.275198059	-4.632908485	9.56E-07	2.89E-05
FOSB	11.60375141	5.848817196	-5.754934215	3.11E-05	0.000305214
FOXCUT	7.746797556	6.629134596	-1.117662959	4.87E-05	0.000416496
FOXF1	7.696104022	5.936799111	-1.759304911	4.04E-07	1.75E-05
FOXI2	8.757720667	7.368441333	-1.389279333	0.000264745	0.001432524
FOXJ1	7.039241567	8.36585577	1.326614204	2.32E-05	0.000244525
FRMD1	11.54730527	10.27068526	-1.276620011	9.56E-07	2.89E-05
FSTL1	11.78835527	12.90835102	1.119995752	5.63E-06	9.22E-05
FUT7	3.580484378	5.404210093	1.823725715	2.65E-05	0.000276475
FZD10-AS1	3.804040489	4.805842196	1.001801707	0.024644453	0.048659802

G6PC	14.47844187	12.35063719	-2.127804674	9.56E-07	2.89E-05
GABRA2	8.841842067	7.564413826	-1.277428241	0.000549885	0.002497649
GABRB2	9.199456244	8.124947133	-1.074509111	0.00038469	0.001915198
GABRP	6.885567456	8.103699215	1.218131759	0.001716851	0.005987476
GAD1	9.878036811	7.942162448	-1.935874363	2.87E-05	0.000295866
GADD45B	11.48604103	9.724890526	-1.761150507	2.12E-08	4.42E-06
GADL1	5.144464144	3.440856337	-1.703607807	0.010543297	0.024773807
GALNT5	5.204975789	6.720696581	1.515720793	0.003534166	0.01039411
GAPT	4.5523229	5.83227663	1.27995373	0.005808024	0.015628954
GAS2L1P2	7.849575511	6.726014493	-1.123561019	0.004050528	0.011607841
GAS7	8.788463522	10.03987736	1.251413841	4.87E-05	0.000416496
GBP5	7.538040444	8.605252141	1.067211696	0.012434026	0.027890332
GCGR	10.70491078	9.494003815	-1.210906963	0.000258643	0.001432524
GCH1	10.8027305	9.712960893	-1.089769607	4.04E-07	1.75E-05
GDF15	11.98193462	9.951957507	-2.029977115	2.55E-07	1.37E-05
GDF5	2.380285522	4.24638107	1.866095548	0.002283003	0.007501587
GFI1	5.951252356	7.012796152	1.061543796	0.01589401	0.034016708
GFI1B	1.661551744	2.987315533	1.325763789	0.006140938	0.016044805
GFRA1	11.22247623	12.57805227	1.355576033	5.63E-06	9.22E-05
GFRA2	6.014714356	7.4541302	1.439415844	1.49E-07	9.92E-06
GGACT	11.38954968	10.22555577	-1.163993904	0.001716851	0.005987476
GGTLC2	6.608075011	5.262381115	-1.345693896	0.004375143	0.012482254
GINS2	5.407803633	6.578376504	1.17057287	5.63E-06	9.22E-05
GIPC2	11.82276112	10.79324711	-1.029514007	4.25E-08	5.08E-06
GJA3	7.726328333	5.944862515	-1.781465819	1.42E-06	3.74E-05
GLB1L3	6.736243922	5.405994533	-1.330249389	0.002669612	0.008400777
GLI1	7.139494511	8.174794219	1.035299707	0.000774288	0.003234177
GLIPR1	7.855997644	8.87175613	1.015758485	0.004050528	0.011607841
GLIPR2	7.704215933	9.132443741	1.428227807	1.02E-05	0.00013953
GLIS1	10.85208579	9.846231607	-1.005854181	1.42E-06	3.74E-05
GMIP	8.916029122	10.01245262	1.096423496	0.004630835	0.012878433
GOLGA6L3	6.584334289	5.392563885	-1.191770404	2.65E-05	0.000276475
GPAT3	13.53403934	11.94190589	-1.592133459	1.49E-07	9.92E-06
GPC5	7.304875189	6.113254015	-1.191621174	0.006820434	0.01737225
GPR161	8.685450467	9.703453937	1.01800347	2.12E-08	4.42E-06
GPR20	6.216187167	5.21383483	-1.002352337	0.008077315	0.019911607
GPR26	6.867634389	5.518896741	-1.348737648	0.000653663	0.002845514
GPR3	5.545507044	4.139918544	-1.4055885	0.000549885	0.002497649
GPR4	9.118478011	8.012542556	-1.105935456	3.00E-05	0.000295866
GPR55	3.451755611	5.2590784	1.807322789	0.004050528	0.011607841
GPR65	6.721343522	7.767686281	1.046342759	0.00307561	0.009346062
GPRC6A	6.160393533	4.052607733	-2.1077858	0.001716851	0.005987476
GRAP2	6.700119156	8.228602119	1.528482963	0.003534166	0.01039411
GREM1	2.222857511	5.764035985	3.541178474	3.83E-05	0.000352659

GRIA2	6.120899889	4.207040878	-1.913859011	2.32E-05	0.000244525
GRIK4	4.763014544	5.959975293	1.196960748	0.000180304	0.001082024
GRIN2A	8.379907578	9.627282856	1.247375278	0.00307561	0.009346062
GRK6P1	5.909254133	7.051644789	1.142390656	4.25E-08	5.08E-06
GRM1	7.684828344	6.485349093	-1.199479252	0.007724375	0.019082698
GSTA1	14.51247782	13.32298679	-1.18949103	0.000913862	0.003666212
GSTA2	13.2690591	11.46722837	-1.80183073	0.001994725	0.006703936
GSTA7P	7.165503289	5.341712726	-1.823790563	0.006820434	0.01737225
GSTP1	12.67377556	13.7204965	1.046720941	9.56E-07	2.89E-05
GUCY1A2	10.33692642	11.35564552	1.018719096	0.00038469	0.001915198
GUCY2EP	7.344497333	5.115801378	-2.228695956	0.000178961	0.001075178
GXYLT2	7.062618	8.256341048	1.193723048	4.08E-06	7.53E-05
GYPC	9.695340878	10.80419474	1.108853859	6.37E-07	2.28E-05
GZMA	5.842460556	7.240438685	1.39797813	0.001473392	0.00531078
GZMB	5.144724222	6.331666026	1.186941804	0.021539551	0.043500221
GZMK	5.204025656	7.026237844	1.822212189	0.000178961	0.001075178
GZMM	4.611090756	6.2062222	1.595131444	2.55E-07	1.37E-05
HAPLN3	6.661574911	7.761758981	1.10018407	0.019372344	0.039844
HAPLN4	6.642388844	5.449760456	-1.192628389	0.01365766	0.030533275
HAS2	4.475547344	6.593236789	2.117689444	7.63E-06	0.000114982
HAVCR1	9.976967978	11.25319034	1.276222359	0.004630835	0.012878433
HCAR2	7.985172922	6.830623274	-1.154549648	4.08E-06	7.53E-05
HCG18	8.104444211	6.611988837	-1.492455374	0.023905264	0.047276086
HCK	8.193897767	9.357205404	1.163307637	0.005281184	0.014283284
HCN2	7.5466575	6.244160519	-1.302496981	7.95E-05	0.000599746
HCRTR2	4.926132	2.904153233	-2.021978767	0.011698562	0.026827784
HCST	6.306627222	7.655652507	1.349025285	0.000549885	0.002497649
HEATR9	5.757567578	7.094697111	1.337129533	9.83E-06	0.00013953
HELT	5.810270922	3.840420307	-1.969850615	0.001260525	0.00468919
HEPACAM2	9.533012944	8.493633441	-1.039379504	1.36E-05	0.000170337
HES1	11.43693088	10.21219302	-1.224737859	0.000118628	0.000798045
HHIPL1	7.120840289	8.194091367	1.073251078	3.11E-05	0.000305214
HIST1H1B	5.901906167	7.492505952	1.590599785	0.000460787	0.00218016
HIST1H1D	7.587367611	9.071103493	1.483735881	6.14E-05	0.000493555
HIST1H2AG	5.677210178	7.277066333	1.599856156	7.69E-05	0.000583998
HIST1H2AH	5.0163432	6.626561426	1.610218226	0.000460787	0.00218016
HIST1H2AI	4.403323444	5.916235911	1.512912467	0.000460787	0.00218016
HIST1H2AM	5.733523856	7.196476841	1.462952985	0.001716851	0.005987476
HIST1H2BH	6.246681011	7.781866756	1.535185744	3.83E-05	0.000352659
HIST1H2BI	6.1172624	7.35218367	1.23492127	0.000208615	0.001239939
HIST1H2BK	8.674199678	9.814524919	1.140325241	2.32E-05	0.000244525
HIST1H2BO	4.822554244	6.087526456	1.264972211	0.012434026	0.027890332
HIST1H3A	7.343437444	8.594453841	1.251016396	4.25E-08	5.08E-06
HIST1H3B	6.846793178	8.119004759	1.272211581	0.002310776	0.007501587

HIST1H3D	8.135320989	9.149997522	1.014676533	2.32E-05	0.000244525
HIST1H3E	6.150277522	7.154637007	1.004359485	1.02E-05	0.00013953
HIST1H3F	5.987894889	7.347348244	1.359453356	0.000264745	0.001432524
HIST1H3G	4.491739622	6.087181167	1.595441544	0.001260525	0.00468919
HIST1H3H	6.612416278	7.69744687	1.085030593	0.001260525	0.00468919
HIST1H3I	5.236011122	7.192214659	1.956203537	0.000167785	0.001056392
HIST1H3J	3.382676378	4.940356548	1.55768017	0.008728547	0.021002819
HIST1H4F	6.589314011	8.049848537	1.460534526	4.08E-06	7.53E-05
HIST1H4I	6.026769844	7.217466159	1.190696315	0.000118628	0.000798045
HIST1H4J	4.563217722	5.635297393	1.07207967	0.012434026	0.027890332
HIST1H4L	3.681871789	6.186013493	2.504141704	2.93E-06	6.06E-05
HIST2H3D	5.305844667	6.943233559	1.637388893	5.85E-05	0.000493555
HLA-DOA	4.971420156	6.251374474	1.279954319	0.019372344	0.039844
HMGN5	8.594608456	6.273648115	-2.320960341	4.04E-07	1.75E-05
HOPX	6.426232978	8.267278067	1.841045089	0.000264745	0.001432524
HPGD	10.9346002	9.295798411	-1.638801789	8.50E-08	7.43E-06
HRASLS5	7.665499789	6.25011753	-1.415382259	0.00034297	0.001771385
HRG	10.78505848	8.874460852	-1.910597626	3.00E-05	0.000295866
HS3ST1	7.437421422	8.482221811	1.044800389	0.004050528	0.011607841
HS6ST2	10.1478326	9.066759985	-1.081072615	0.000118628	0.000798045
HSD11B2	14.42099492	13.34632314	-1.074671785	7.63E-06	0.000114982
HSH2D	7.256298756	8.465785696	1.209486941	0.008728547	0.021002819
HSPA1B	5.971756	3.255655007	-2.716100993	2.65E-05	0.000276475
HSPA7	7.833877233	8.93295077	1.099073537	0.004630835	0.012878433
HSPE1	9.0124573	7.937048111	-1.075409189	4.08E-06	7.53E-05
HTR7	4.427469767	5.583210133	1.155740367	0.003534166	0.01039411
ICAM4	6.291775533	5.151474122	-1.140301411	0.000144878	0.000925394
IER2	12.51573411	11.42363653	-1.092097585	6.37E-07	2.28E-05
IFI27L2	7.5006654	8.677575219	1.176909819	4.08E-06	7.53E-05
IFIT1B	6.816322244	5.519014741	-1.297307504	0.000774288	0.003234177
IFITM1	10.51558316	11.57150383	1.055920674	4.87E-05	0.000416496
IGDCC4	6.865206011	8.285338904	1.420132893	0.00290477	0.009088973
IGF2	7.704144211	6.099119893	-1.605024319	0.002669612	0.008400777
IGFBP1	5.722613111	3.686870204	-2.035742907	0.000885052	0.003666212
IGFBP6	8.572252356	9.709146774	1.136894419	0.000549885	0.002497649
IGFLR1	7.759297667	8.799118307	1.039820641	0.000178961	0.001075178
IGLL5	9.190303522	12.05447232	2.864168796	0.002669612	0.008400777
IGSF10	6.2835074	7.359568048	1.076060648	1.78E-05	0.000205405
IHH	9.348508222	7.955359393	-1.39314883	1.76E-05	0.000205405
IKBKE	8.625193633	9.669439874	1.044246241	2.32E-05	0.000244525
IKZF1	8.664380356	10.30093827	1.636557919	0.001716851	0.005987476
IKZF3	8.310762133	10.31327389	2.002511756	0.001075106	0.004146384
IL10RA	9.869496944	11.26793137	1.39843443	0.000549885	0.002497649
IL12RB1	6.754756	7.967345633	1.212589633	0.000653663	0.002845514

IL13RA2	6.526247344	5.243412107	-1.282835237	0.004630835	0.012878433
IL16	9.562075456	10.82726714	1.265191689	0.000460787	0.00218016
IL1RL1	11.50217262	10.19232751	-1.309845115	0.000319768	0.001658505
IL27RA	8.054032411	9.056405622	1.002373211	0.001075106	0.004146384
IL2RA	5.821506556	7.014955533	1.193448978	0.003534166	0.01039411
IL2RB	7.231240511	8.793472141	1.56223163	0.006008756	0.015730247
IL2RG	7.438594678	8.968199663	1.529604985	0.004050528	0.011607841
IL34	7.634745944	8.739360707	1.104614763	0.000264745	0.001432524
IL7R	8.005097556	9.712322563	1.707225007	0.013932678	0.030533275
INHBA	7.682370356	9.061248993	1.378878637	0.00307561	0.009346062
INPP5J	11.77754783	10.72202914	-1.055518693	3.00E-05	0.000295866
INSC	6.448646967	5.433622326	-1.015024641	0.011073759	0.025492733
INSRR	9.863327644	8.7368474	-1.126480244	0.00307561	0.009346062
IP6K3	9.861904844	8.239906215	-1.62199863	7.69E-05	0.000583998
IQSEC3	11.12319509	9.964344007	-1.158851081	0.001473392	0.00531078
IRF4	6.578062144	9.197582374	2.61952023	0.000549885	0.002497649
IRF8	9.089637411	10.32911974	1.23948233	0.007724375	0.019082698
IRX6	4.7262117	6.762852378	2.036640678	1.42E-06	3.74E-05
ISLR	9.651357611	10.91200326	1.260645652	1.02E-05	0.00013953
ISLR2	4.455583256	6.06450277	1.608919515	0.000146054	0.000925394
ITGAD	3.658086578	5.336570237	1.678483659	0.003534166	0.01039411
ITGAL	9.373938411	10.80234952	1.428411107	0.004630835	0.012878433
ITGAM	8.908995067	9.966952278	1.057957211	0.005281184	0.014283284
ITGB2-AS1	6.392271078	7.673980681	1.281709604	0.004630835	0.012878433
ITGB6	10.09284272	11.63464257	1.541799844	0.004050528	0.011607841
ITGBL1	6.973616644	8.705353467	1.731736822	0.000653663	0.002845514
ITK	7.050242867	8.378680907	1.328438041	0.017390195	0.036515989
ITM2C	12.4192271	13.4324609	1.013233804	1.78E-05	0.000205405
ITPRIPL1	4.618359078	6.226940715	1.608581637	2.55E-07	1.37E-05
IZUMO1	6.2303191	5.175710152	-1.054608948	0.000549885	0.002497649
JAK3	9.377456744	10.76188571	1.38442897	0.00307561	0.009346062
JAKMIP1	3.935714667	5.269359993	1.333645326	0.004050528	0.011607841
JAML	7.760239233	9.533717385	1.773478152	0.000460787	0.00218016
JUN	13.5619904	11.55179985	-2.010190552	9.56E-07	2.89E-05
JUNB	12.89756304	10.90323551	-1.99432753	2.06E-06	4.71E-05
KCNA3	7.164342833	8.809273022	1.644930189	0.002669612	0.008400777
KCNG3	6.806567811	5.302605819	-1.503961993	7.63E-06	0.000114982
KCNH6	11.73207063	10.70145711	-1.030613519	0.012434026	0.027890332
KCNH7	6.3880452	5.345275789	-1.042769411	0.001075106	0.004146384
KCNIP4-IT1	5.828317644	4.599318911	-1.228998733	0.003534166	0.01039411
KCNJ8	8.612587978	9.77044453	1.157856552	2.93E-06	6.06E-05
KCNMB2-AS1	6.637319144	5.595008837	-1.042310307	9.58E-05	0.000677876
KCNN4	5.620541322	6.8613547	1.240813378	0.00307561	0.009346062
KCNS1	4.628405456	6.255195293	1.626789837	1.42E-06	3.74E-05

KCNV1	3.076023678	4.488022685	1.411999007	0.019372344	0.039844
KIF20A	6.126749667	7.255543815	1.128794148	2.55E-07	1.37E-05
KIF21B	8.536676356	9.880723004	1.344046648	0.000319768	0.001658505
KIRREL2	6.651475289	5.129953326	-1.521521963	1.36E-05	0.000170337
KL	14.84522018	13.74927224	-1.095947933	6.82E-05	0.000543521
KLHL3	12.46404074	11.25977244	-1.204268307	2.32E-05	0.000244525
KLK1	10.5978542	7.4528399	-3.1450143	0.000913862	0.003666212
KLK7	8.717742867	7.192844796	-1.52489807	0.00038469	0.001915198
KLRB1	5.444299878	6.548657022	1.104357144	0.004130317	0.011825913
KLRG2	6.332669822	7.353098881	1.020429059	0.001716851	0.005987476
KMO	11.39299529	10.20197744	-1.191017844	9.58E-05	0.000677876
KNG1	14.38503017	13.12473438	-1.260295789	7.63E-06	0.000114982
KRT80	7.378743922	8.497234574	1.118490652	0.021539551	0.043500221
KRTAP5-8	7.310777111	5.641079744	-1.669697367	1.78E-05	0.000205405
L3MBTL4-AS1	8.193716644	6.779060919	-1.414655726	9.56E-07	2.89E-05
LAIR1	8.509067133	9.949334837	1.440267704	0.000319768	0.001658505
LAMA4	10.19098391	11.27956043	1.088576515	1.42E-06	3.74E-05
LAMC2	9.0585017	10.55760217	1.499100474	0.001473392	0.00531078
LAMP5	5.346144644	6.558091256	1.211946611	0.002669612	0.008400777
LAPTM5	10.23700471	11.44753983	1.210535122	0.023905264	0.047276086
LAT2	7.857363078	9.063352726	1.205989648	0.000774288	0.003234177
LAX1	5.705931344	7.684256896	1.978325552	0.001473392	0.00531078
LCK	6.828078844	8.741381311	1.913302467	0.001075106	0.004146384
LCN2	5.027271033	7.077210444	2.049939411	0.001075106	0.004146384
LCNL1	6.581616244	5.508093626	-1.073522619	0.001994725	0.006703936
LCP2	9.017351367	10.03667225	1.019320885	0.005281184	0.014283284
LGALS1	9.8313931	11.0041796	1.172786504	5.63E-06	9.22E-05
LGSN	7.983434467	6.554796963	-1.428637504	0.001075106	0.004146384
LHFPL3	7.783698878	6.717686652	-1.066012226	0.000460787	0.00218016
LILRA2	5.887521533	7.101001411	1.213479878	6.14E-05	0.000493555
LILRA4	3.482655278	5.872570867	2.389915589	0.003534166	0.01039411
LILRB1	7.447167711	8.668364104	1.221196393	0.001260525	0.00468919
LILRB5	7.967326456	9.050719926	1.08339347	0.000653663	0.002845514
LIMD2	8.746279067	10.27978916	1.533510089	3.83E-05	0.000352659
LINC00092	5.4315482	6.44769487	1.01614667	2.55E-07	1.37E-05
LINC00113	6.313297422	4.916619019	-1.396678404	0.000774288	0.003234177
LINC00323	5.864364467	4.109627063	-1.754737404	0.000178961	0.001075178
LINC00402	2.243354267	4.521808322	2.278454056	0.006858785	0.017406247
LINC00426	4.490330589	5.634085593	1.143755004	0.000124815	0.00083595
LINC00473	9.105863211	7.291918607	-1.813944604	0.00038469	0.001915198
LINC00482	8.483624122	7.060402859	-1.423221263	0.000549885	0.002497649
LINC00484	6.860399833	5.400239774	-1.460160059	5.63E-06	9.22E-05
LINC00540	5.803600678	4.485515604	-1.318085074	0.015581059	0.033436314
LINC00551	7.162002111	6.1244161	-1.037586011	0.004050528	0.011607841

LINC00599	6.765253278	5.680360015	-1.084893263	0.001994725	0.006703936
LINC00639	4.915019389	6.37886323	1.463843841	7.69E-05	0.000583998
LINC00645	9.341808933	7.940913544	-1.400895389	2.93E-06	6.06E-05
LINC00839	9.643823956	8.43507473	-1.208749226	0.001260525	0.00468919
LINC00853	7.821437844	6.6235291	-1.197908744	0.006820434	0.01737225
LINC00861	6.444024156	7.557394011	1.113369856	0.015581059	0.033436314
LINC00871	6.710834733	5.352663993	-1.358170741	0.000549885	0.002497649
LINC00924	7.763807189	8.812339852	1.048532663	7.69E-05	0.000583998
LINC00964	6.741983622	5.007879463	-1.734104159	0.000634817	0.002845514
LINC00970	6.9744178	5.644182381	-1.330235419	0.000319768	0.001658505
LINC01018	6.358618878	5.231318804	-1.127300074	0.002310776	0.007501587
LINC01055	8.940982578	7.520900352	-1.420082226	0.001260525	0.00468919
LINC01060	8.794426744	7.400945226	-1.393481519	0.001716851	0.005987476
LINC01108	7.084230933	5.609830796	-1.474400137	9.58E-05	0.000677876
LINC01187	11.3106811	10.0556082	-1.255072904	7.63E-06	0.000114982
LINC01215	3.125982589	4.526046859	1.40006427	0.021539551	0.043500221
LINC01230	7.864800011	5.985229207	-1.879570804	0.000118628	0.000798045
LINC01279	8.177512844	9.732021648	1.554508804	7.63E-06	0.000114982
LINC01342	8.9026255	7.818222589	-1.084402911	0.001260525	0.00468919
LINC01349	8.3361484	7.29430893	-1.04183947	0.00307561	0.009346062
LINC01426	2.713924189	5.84455827	3.130634081	4.08E-06	7.53E-05
LINC01450	6.537150111	5.241057048	-1.296093063	0.000319768	0.001658505
LINC01485	7.060602444	5.317232796	-1.743369648	1.36E-05	0.000170337
LINC01539	6.163669922	4.731281122	-1.4323888	0.023905264	0.047276086
LINC01554	8.408309422	7.101036474	-1.307272948	0.005281184	0.014283284
LINC01612	7.312157033	6.152985074	-1.159171959	1.36E-05	0.000170337
LINC01847	6.755856078	4.850218348	-1.90563773	0.001716851	0.005987476
LINC02139	7.793926811	6.7430946	-1.050832211	0.002669612	0.008400777
LINGO3	5.121603578	6.15123293	1.029629352	0.015581059	0.033436314
LIX1	6.4993884	8.063195448	1.563807048	0.000452501	0.00218016
LMOD2	4.950852433	3.934503311	-1.016349122	0.012964933	0.029054413
LMX1B	10.09130592	8.50280463	-1.588501293	4.08E-06	7.53E-05
LOC100129316	8.655831133	7.135375663	-1.52045547	5.63E-06	9.22E-05
LOC100129697	4.3457175	5.9713164	1.6255989	9.58E-05	0.000677876
LOC100130691	12.17461897	11.04522534	-1.129393626	0.000460787	0.00218016
LOC100506585	5.635146122	6.700887504	1.065741381	0.002669612	0.008400777
LOC100507387	6.712407522	5.652120363	-1.060287159	0.000774288	0.003234177
LOC100507537	6.846638811	4.764433741	-2.08220507	0.010543297	0.024773807
LOC100507616	2.7854689	4.736529285	1.951060385	0.002310776	0.007501587
LOC100507657	6.510971789	5.163123393	-1.347848396	0.001075106	0.004146384
LOC100996286	2.690114633	4.234085707	1.543971074	0.017390195	0.036515989
LOC101060553	7.415635922	6.087188107	-1.328447815	2.06E-06	4.71E-05
LOC101926962	8.1670487	6.537883537	-1.629165163	2.12E-08	4.42E-06
LOC101926964	3.9601154	5.045730667	1.085615267	0.008524606	0.02093045

LOC101927136	7.641314267	5.543619707	-2.097694559	0.006820434	0.01737225
LOC101927318	8.600577411	7.359487952	-1.241089459	0.000653663	0.002845514
LOC101927402	7.051463978	5.825493156	-1.225970822	0.000118628	0.000798045
LOC101927472	7.615043478	5.908664893	-1.706378585	9.56E-07	2.89E-05
LOC101927557	7.186999578	6.133063837	-1.053935741	1.49E-07	9.92E-06
LOC101927751	6.158721711	7.580801081	1.42207937	5.63E-06	9.22E-05
LOC101927854	7.084746244	5.856464963	-1.228281281	9.26E-05	0.000677876
LOC101928596	7.6615855	5.683641759	-1.977943741	0.001075106	0.004146384
LOC101928820	10.192808	8.773350807	-1.419457193	0.001716851	0.005987476
LOC101928911	7.372567889	6.108028404	-1.264539485	0.001994725	0.006703936
LOC101929420	6.539578878	5.070975752	-1.468603126	0.001716851	0.005987476
LOC102723886	7.956724056	6.538079211	-1.418644844	0.002310776	0.007501587
LOC102724652	8.966874989	7.805114437	-1.161760552	0.017390195	0.036515989
LOC102724890	6.241977178	5.237667	-1.004310178	0.015581059	0.033436314
LOC105372833	6.507587256	4.968944122	-1.538643133	0.003082665	0.009346062
LOC105375115	8.268191689	6.342370793	-1.925820896	0.023905264	0.047276086
LOC105375787	6.457391067	4.960507233	-1.496883833	2.12E-08	4.42E-06
LOC200772	6.845625322	5.235441107	-1.610184215	0.000549885	0.002497649
LOC221946	6.517234778	4.629300367	-1.887934411	7.95E-05	0.000599746
LOC284454	10.16698557	9.0287994	-1.138186167	7.69E-05	0.000583998
LOC574538	9.0488901	7.931692048	-1.117198052	0.011073759	0.025492733
LOC643623	6.248417056	4.592325396	-1.656091659	0.000319768	0.001658505
LOC644794	9.5647152	8.27300453	-1.29171067	4.04E-07	1.75E-05
LOC728040	10.04525752	8.507608693	-1.53764883	0.006820434	0.01737225
LOC729683	6.909448756	8.046594607	1.137145852	3.00E-05	0.000295866
LOXL1	9.443026844	10.60134436	1.158317511	1.02E-05	0.00013953
LPA	8.832260067	7.430347652	-1.401912415	0.000774288	0.003234177
LPAL2	5.3865996	6.395469785	1.008870185	7.69E-05	0.000583998
LPAR1	8.893125444	10.05790606	1.164780615	3.00E-05	0.000295866
LPL	10.6567801	9.579648293	-1.077131807	0.001994725	0.006703936
LRG1	6.323207411	7.504288256	1.181080844	0.007724375	0.019082698
LRRC19	11.40479649	10.3845767	-1.020219789	6.37E-07	2.28E-05
LRRC39	6.008698733	4.970595259	-1.038103474	0.000775871	0.003234177
LRRC9	6.628050089	4.9902294	-1.637820689	1.78E-05	0.000205405
LRRK1	9.8683632	11.06789247	1.199529267	0.000319768	0.001658505
LRRN4	8.783723133	10.08036281	1.296639681	0.000146054	0.000925394
LSMEM1	8.263778933	6.981308019	-1.282470915	2.65E-05	0.000276475
LSP1	8.6931975	10.2701885	1.576991004	0.003534166	0.01039411
LTF	9.807870989	12.38053732	2.57266633	0.002669612	0.008400777
LUCAT1	4.352732167	3.07174763	-1.280984537	0.007724375	0.019082698
LUM	11.32965716	12.64296499	1.31330783	0.000218157	0.001239939
LY9	6.0991614	7.622139	1.5229776	0.006008756	0.015730247
LYZ	9.0439169	10.6917213	1.6478044	0.018446223	0.038571566
M1AP	5.034672111	6.207729104	1.173056993	4.08E-06	7.53E-05

MAFF	9.892788744	8.337637033	-1.555151711	6.14E-05	0.000493555
MAP1LC3C	3.020937156	4.809948048	1.789010893	0.000208615	0.001239939
MAP4K1	7.226596178	8.501204196	1.274608019	0.012434026	0.027890332
MAPT-IT1	8.364043722	7.110645944	-1.253397778	0.001260525	0.00468919
MARCKSL1	9.917571178	10.95289228	1.035321104	1.02E-05	0.00013953
MCUB	6.445475378	7.487098096	1.041622719	0.00307561	0.009346062
MDFI	6.300047978	7.82085297	1.520804993	6.37E-07	2.28E-05
MDK	8.240987633	9.780890152	1.539902519	5.63E-06	9.22E-05
MEAT6	4.890766844	3.4843182	-1.406448644	0.006848016	0.017406247
MEGF11	8.283088522	9.631962759	1.348874237	1.42E-06	3.74E-05
MEI1	6.587132333	7.677990515	1.090858181	0.005808024	0.015628954
MEIOC	6.273709989	5.158874504	-1.114835485	0.000218157	0.001239939
MEOX1	2.637159067	5.101692474	2.464533407	2.32E-05	0.000244525
MFAP2	5.879099189	7.059215037	1.180115848	5.63E-06	9.22E-05
MFAP4	9.881064744	11.21699285	1.335928104	3.00E-05	0.000295866
MFAP5	3.481507467	5.749513544	2.268006078	0.017390195	0.036515989
MGAM2	8.285330167	7.128945067	-1.1563851	0.000460787	0.00218016
MGAT5B	7.149251967	6.144024319	-1.005227648	0.000913862	0.003666212
MGC70870	7.648505678	8.767753004	1.119247326	0.001075106	0.004146384
MGP	11.95944759	13.32042904	1.360981452	3.00E-05	0.000295866
MIAT	8.783281433	9.85140157	1.068120137	0.000178961	0.001075178
MICAL2	10.55413991	11.63774781	1.083607896	3.83E-05	0.000352659
MIR142	3.6709055	5.6674827	1.9965772	0.000218157	0.001239939
MIR1914	7.198793767	5.746314604	-1.452479163	4.25E-08	5.08E-06
MIR221	4.895203689	3.725415319	-1.16978837	0.006855195	0.017406247
MIR23A	6.184547411	4.539007722	-1.645539689	0.000146054	0.000925394
MIR27A	5.015684489	3.608757959	-1.40692653	0.00549147	0.014809487
MIR27B	6.072560311	7.546841574	1.474281263	2.12E-08	4.42E-06
MIR3183	6.040768933	4.613452559	-1.427316374	0.001260525	0.00468919
MIR3189	7.663082611	4.306879604	-3.356203007	2.93E-06	6.06E-05
MIR31HG	5.484080189	6.739902578	1.255822389	6.14E-05	0.000493555
MIR324	6.4728021	4.989198359	-1.483603741	4.25E-08	5.08E-06
MIR4265	6.226138222	5.1697641	-1.056374122	0.000774288	0.003234177
MIR4307HG	8.090617811	6.935530693	-1.155087119	0.000218157	0.001239939
MIR4539	4.007198978	6.012309119	2.005110141	0.013932678	0.030533275
MIR554	5.900832389	4.310237222	-1.590595167	1.02E-05	0.00013953
MIR5699	7.248995711	6.209104819	-1.039890893	1.78E-05	0.000205405
MIR647	7.273193189	6.10914293	-1.164050259	2.06E-06	4.71E-05
MIR6723	10.54754313	8.207993856	-2.339549278	2.12E-08	4.42E-06
MIR6863	7.098085322	4.842156748	-2.255928574	0.000146054	0.000925394
MIR6883	5.827613067	3.256337593	-2.571275474	2.55E-07	1.37E-05
MKI67	7.660808444	8.952535874	1.29172743	0.003534166	0.01039411
MLXIPL	12.903567	11.65341106	-1.250155944	4.04E-07	1.75E-05
MME	15.48666417	14.12353631	-1.363127859	5.84E-05	0.000493555

MMP1	2.1073291	3.717457989	1.610128889	0.012976585	0.029054413
MMP2	10.99132128	12.08256837	1.091247089	5.63E-06	9.22E-05
MMP7	10.02912907	11.89992095	1.870791881	0.007724375	0.019082698
MMRN1	5.428951967	7.276439515	1.847487548	0.003534166	0.01039411
MOXD1	9.2059759	11.01457635	1.808600452	1.36E-05	0.000170337
MPEG1	10.26522774	11.51435543	1.249127689	0.004050528	0.011607841
MRLN	6.805869289	5.093059815	-1.712809474	0.004630835	0.012878433
MRO	12.48661502	10.68498625	-1.801628774	1.02E-05	0.00013953
MROH2B	3.752119711	6.417083833	2.664964122	5.63E-06	9.22E-05
MROH5	7.046862144	5.871990378	-1.174871767	0.004050528	0.011607841
MROH7	6.946875156	5.853921559	-1.092953596	0.000146054	0.000925394
MRPL23-AS1	7.996641522	6.475627541	-1.521013981	4.87E-05	0.000416496
MS4A1	5.714800711	7.652734926	1.937934215	0.006820434	0.01737225
MS4A2	4.423681411	5.997013419	1.573332007	0.008728547	0.021002819
MS4A4A	7.492394456	8.751373548	1.258979093	0.000218157	0.001239939
MS4A6A	8.808894089	10.45416461	1.645270522	2.32E-05	0.000244525
MSC	6.463716956	8.212503163	1.748786207	1.78E-05	0.000205405
MSC-AS1	6.564160756	7.565535033	1.001374278	0.000460787	0.00218016
MSMO1	10.53589957	9.508542167	-1.0273574	4.25E-08	5.08E-06
MTPP	10.81824132	9.550860011	-1.267381311	1.36E-05	0.000170337
MUC12	3.910853978	4.926797174	1.015943196	0.008728547	0.021002819
MUC13	10.948943	8.863574619	-2.085368381	0.002310776	0.007501587
MUC5B	9.749913556	8.429665052	-1.320248504	4.08E-06	7.53E-05
MYBL2	4.654333667	6.189261222	1.534927556	0.006008756	0.015730247
MYBPC2	3.663510244	5.938432889	2.274922644	0.000298025	0.001598018
MYCL	7.004625611	8.293827407	1.289201796	2.93E-06	6.06E-05
MYCN	9.499913989	8.485483189	-1.0144308	0.021539551	0.043500221
MYCNOS	6.1016415	4.495264115	-1.606377385	0.012325729	0.027890332
MYH7	2.389846333	4.824933859	2.435087526	0.00257514	0.008329689
MYO1F	9.767246622	10.78854102	1.0212944	0.021539551	0.043500221
MYO1G	7.876588711	9.336575093	1.459986381	0.005281184	0.014283284
MYO1H	6.122254389	7.248785211	1.126530822	4.25E-08	5.08E-06
MZB1	6.473285578	8.765876581	2.292591004	0.002310776	0.007501587
NAPSB	8.068731678	9.319127096	1.250395419	0.000146054	0.000925394
NCF1	6.581036156	7.707906593	1.126870437	0.002669612	0.008400777
NCF2	8.185226389	9.421454522	1.236228133	0.000594014	0.002682107
NCF4	7.529953478	8.892332263	1.362378785	0.000178961	0.001075178
NCKAP1L	9.206833189	10.61594098	1.409107789	0.001994725	0.006703936
NCMAP	6.474821022	8.09053183	1.615710807	3.83E-05	0.000352659
NDNF	12.30250103	10.10115154	-2.201349493	1.49E-07	9.92E-06
NELL1	10.16784506	8.803264126	-1.36458093	0.002310776	0.007501587
NFAM1	8.3829111	9.456413693	1.073502593	0.003534166	0.01039411
NIPAL4	4.194206611	5.692905396	1.498698785	0.000394196	0.001952805
NKG7	6.664551889	7.797199019	1.13264713	0.006008756	0.015730247

NLRP2	6.323760367	7.801685896	1.47792553	0.013932678	0.030533275
NMRAL2P	7.9904074	6.850582574	-1.139824826	9.58E-05	0.000677876
NNMT	8.313653989	10.30469348	1.991039493	0.001994725	0.006703936
NOD2	6.655379622	7.867081089	1.211701467	0.006820434	0.01737225
NPHS1	12.30849984	10.43174502	-1.876754822	5.63E-06	9.22E-05
NPHS2	12.42198218	11.10049302	-1.321489159	0.00038469	0.001915198
NPIPA1	7.353924967	6.156187419	-1.197737548	0.000774288	0.003234177
NPIPA5	6.725039778	5.698166211	-1.026873567	0.005281184	0.014283284
NPIPB3	9.663211267	8.631328252	-1.031883015	0.000549885	0.002497649
NPIPB5	8.087975622	6.570752026	-1.517223596	1.78E-05	0.000205405
NPTX1	6.455075811	4.670089952	-1.784985859	0.000144878	0.000925394
NROB2	8.766976533	6.937936074	-1.829040459	2.55E-07	1.37E-05
NR1D1	10.2945475	9.289466159	-1.005081341	0.000118628	0.000798045
NR4A1	14.51146072	9.740197444	-4.771263278	2.12E-08	4.42E-06
NR4A2	10.53636618	6.311474356	-4.224891822	2.12E-08	4.42E-06
NR4A3	10.83575342	7.579752552	-3.25600087	4.25E-08	5.08E-06
NRARP	9.345964378	8.226274174	-1.119690204	4.08E-06	7.53E-05
NRSN1	5.839759678	7.241248641	1.401488963	0.000452501	0.00218016
NTM	5.808008878	7.796483226	1.988474348	0.000118628	0.000798045
NTNG1	10.02292818	8.61557967	-1.407348507	1.36E-05	0.000170337
NTRK3-AS1	5.593720544	4.415066733	-1.178653811	0.001303898	0.004832572
NUGGC	10.68755092	9.463781837	-1.223769085	0.001260525	0.00468919
NXPH2	8.085505667	6.591356511	-1.494149156	2.93E-06	6.06E-05
OLFM1	6.694338533	7.724583193	1.030244659	9.58E-05	0.000677876
OLFM2	6.697223	7.791849093	1.094626093	4.08E-06	7.53E-05
OLFM3	4.508603167	3.495957893	-1.012645274	0.00984202	0.023183842
OLFML2B	7.965910411	8.998972522	1.033062111	0.002669612	0.008400777
OLIG1	7.932730022	6.930759507	-1.001970515	0.000653663	0.002845514
OLIG2	6.638247256	5.059274952	-1.578972304	4.87E-05	0.000416496
OLR1	9.066639422	7.775621907	-1.291017515	1.42E-06	3.74E-05
OR2G6	7.158712767	5.462972559	-1.695740207	0.007651151	0.019082698
OR2T10	8.005900411	6.223879619	-1.782020793	0.006008756	0.015730247
OR2T11	8.327107122	6.616042548	-1.711064574	0.00984202	0.023183842
OR2T2	7.191394456	5.491715078	-1.699679378	0.002669612	0.008400777
OR2T3	6.161291878	4.159256333	-2.002035544	0.000774288	0.003234177
OR2T34	6.700857267	4.737011819	-1.963845448	0.001994725	0.006703936
OR2T35	6.612291444	4.768336156	-1.843955289	0.003534166	0.01039411
OSM	6.063540044	4.227463474	-1.83607657	9.56E-07	2.89E-05
OSR2	3.391346533	5.152179581	1.760833048	4.08E-06	7.53E-05
OXGR1	7.489386067	6.208994978	-1.280391089	0.000726099	0.003136112
P2RX5	3.847647278	5.780260937	1.932613659	0.001473392	0.00531078
P2RY10	5.512509811	6.857576756	1.345066944	0.007724375	0.019082698
PADI4	3.778789067	2.639306037	-1.13948303	0.008728547	0.021002819
PAH	15.19118411	14.040988	-1.150196111	0.000298025	0.001598018

PAMR1	7.315915033	8.489131593	1.173216559	0.002669612	0.008400777
PAPPA2	11.69465301	12.87798076	1.183327752	0.001994725	0.006703936
PARP15	6.692803322	7.831274241	1.138470919	0.017390195	0.036515989
PARVG	8.1112182	9.500786996	1.389568796	0.003534166	0.01039411
PAX5	4.344234489	7.238447259	2.89421277	0.00307561	0.009346062
PCAT29	7.610441178	5.661010033	-1.949431144	0.000394196	0.001952805
PCDH15	10.09828183	8.486188933	-1.6120929	0.000118628	0.000798045
PCDH18	9.449647478	10.45076349	1.001116015	4.08E-06	7.53E-05
PCK1	16.58915096	14.90414236	-1.685008596	2.44E-05	0.000256584
PCOLCE2	10.27981223	8.697904459	-1.581907774	2.93E-06	6.06E-05
PDGFRA	11.64985856	12.88227628	1.232417726	7.63E-06	0.000114982
PDK4	12.2472966	10.14971447	-2.097582126	9.56E-07	2.89E-05
PER1	13.25594877	11.89683722	-1.359111544	4.87E-05	0.000416496
PHF21B	8.495980044	7.375986796	-1.119993248	3.00E-05	0.000295866
PHYHIP	9.141352833	8.035718622	-1.105634211	0.000775871	0.003234177
PIK3CD-AS1	4.950577422	6.656398115	1.705820693	0.000264745	0.001432524
PIK3CG	8.6083594	9.774463567	1.166104167	0.00307561	0.009346062
PIK3R5	8.005888444	9.384638037	1.378749593	0.003534166	0.01039411
PIK3R6	5.940848344	7.362917196	1.422068852	0.006008756	0.015730247
PLAC8	5.842697167	7.408232741	1.565535574	0.003534166	0.01039411
PLCB2	9.369801356	10.79757799	1.427776633	0.000913862	0.003666212
PLCE1-AS1	6.3251027	4.872527719	-1.452574981	4.25E-08	5.08E-06
PLCZ1	7.225539778	5.838560119	-1.386979659	5.63E-06	9.22E-05
PLD4	6.995863222	8.239130474	1.243267252	0.002310776	0.007501587
PLEK	8.375038689	9.571687707	1.196649019	0.012434026	0.027890332
PLEKHA4	9.464316511	10.5233485	1.059031993	0.000218157	0.001239939
PLEKHD1	7.798466833	6.380505807	-1.417961026	0.001473392	0.00531078
PLG	15.33795342	14.1150882	-1.222865222	0.002281511	0.007501587
PLPP2	7.120391022	8.304893419	1.184502396	0.000549885	0.002497649
PLPPR4	7.497680011	6.177941322	-1.319738689	0.000264745	0.001432524
PLXNA4	8.772554467	10.12262903	1.350074559	5.63E-06	9.22E-05
PM20D1	10.70708858	9.184508756	-1.522579822	0.002310776	0.007501587
PNOC	3.632983733	5.553956881	1.920973148	9.26E-05	0.000677876
PNPLA1	10.03769407	8.81164783	-1.226046237	0.000118628	0.000798045
PODN	7.375958167	8.9116851	1.535726933	9.58E-05	0.000677876
POM121L1P	7.510037989	5.773410722	-1.736627267	0.000178961	0.001075178
POM121L9P	6.529254222	7.988890863	1.459636641	0.002310776	0.007501587
POU2AF1	6.462090089	8.333375737	1.871285648	0.008728547	0.021002819
POU2F2	7.684544178	8.801708352	1.117164174	0.008728547	0.021002819
PPP1R1B	7.639830222	9.022998111	1.383167889	3.00E-05	0.000295866
PPP2R2C	5.7752852	4.619529956	-1.155755244	0.00984202	0.023183842
PRDM8	5.928928589	7.189150819	1.26022223	4.87E-05	0.000416496
PRKCB	8.036065289	9.532666759	1.49660147	0.004630835	0.012878433
PRODH2	14.28835063	13.1369013	-1.151449333	0.002280019	0.007501587

PROK2	3.093501278	1.649343093	-1.444158185	0.005470359	0.014792421
PROM1	10.78529232	11.96520708	1.179914759	0.002310776	0.007501587
PROZ	10.8552619	9.271158604	-1.584103296	0.000319768	0.001658505
PRPH2	6.910872278	8.06239997	1.151527693	2.25E-05	0.000244525
PRRX1	6.062715889	8.218390574	2.155674685	1.78E-05	0.000205405
PRSS50	6.817075422	5.630252933	-1.186822489	1.02E-05	0.00013953
PSTPIP1	7.998397156	9.029912844	1.031515689	0.008728547	0.021002819
PTAFR	8.574260256	9.695144441	1.120884185	0.008077315	0.019911607
PTGDR	5.750777211	7.128807689	1.378030478	1.78E-05	0.000205405
PTGER1	8.6724539	9.854023341	1.181569441	5.63E-06	9.22E-05
PTGER3	12.28034569	10.85406478	-1.426280907	2.12E-08	4.42E-06
PTGFR	8.718853789	7.587347767	-1.131506022	2.93E-06	6.06E-05
PTGS2	8.814147022	7.585166585	-1.228980437	2.93E-06	6.06E-05
PTHLH	6.942002644	4.96692357	-1.975079074	1.49E-07	9.92E-06
PTPRCAP	8.568988011	9.591332689	1.022344678	0.000653663	0.002845514
PTPRO	12.47055391	11.07061233	-1.399941578	5.63E-06	9.22E-05
PTPRQ	10.82942792	9.015620778	-1.813807144	7.63E-06	0.000114982
PVALB	9.3414706	8.137036163	-1.204434437	0.001994725	0.006703936
PVT1	6.344289367	7.764779437	1.42049007	0.00055521	0.002516123
PXDN	10.79746337	11.87672636	1.079262996	0.000549885	0.002497649
PYCARD	6.260691867	7.740609033	1.479917167	2.06E-06	4.71E-05
PYY	6.0848875	4.538994415	-1.545893085	2.65E-05	0.000276475
QPCT	6.904450489	8.000064111	1.095613622	0.002310776	0.007501587
RAC2	8.260683722	9.754801533	1.494117811	0.007724375	0.019082698
RAMP1	6.8608829	7.896791063	1.035908163	0.001473392	0.00531078
RARRES1	7.725161522	9.211824548	1.486663026	3.00E-05	0.000295866
RASAL3	8.234753611	9.523189819	1.288436207	0.003534166	0.01039411
RASD1	10.92441891	9.554576767	-1.369842144	0.002669612	0.008400777
RASSF2	9.067948722	10.50923925	1.44129053	0.000549885	0.002497649
RBM44	6.201040267	5.194795615	-1.006244652	9.58E-05	0.000677876
REG1A	5.520449578	8.030491085	2.510041507	0.00307561	0.009346062
REG3G	2.598378611	4.827379048	2.229000437	0.008073241	0.019911607
RELN	8.374708567	9.438419678	1.063711111	7.69E-05	0.000583998
RET	7.380037344	8.76062683	1.380589485	4.04E-07	1.75E-05
RGPD3	7.658155433	6.160444811	-1.497710622	0.011073759	0.025492733
RGS1	7.985177867	4.79158423	-3.193593637	7.63E-06	0.000114982
RGS16	9.567639122	8.221774493	-1.34586463	6.37E-07	2.28E-05
RGS19	7.596200544	8.886398752	1.290198207	1.02E-05	0.00013953
RGS2	9.332407222	8.313614	-1.018793222	1.02E-05	0.00013953
RGS7	6.4958729	5.202027341	-1.293845559	0.002283003	0.007501587
RGS9BP	8.394957656	7.199706722	-1.195250933	0.001716851	0.005987476
RHCG	12.59045043	11.03578847	-1.554661959	0.000218157	0.001239939
RHOH	5.656285056	7.477902381	1.821617326	0.002310776	0.007501587
RIMS2	5.869686444	7.069512526	1.199826081	0.001075106	0.004146384

RNASE6	7.259987733	8.554838604	1.29485087	0.000178961	0.001075178
RNF112	6.001325289	7.19248573	1.191160441	4.25E-08	5.08E-06
RNF144B	10.24428196	11.27728847	1.033006515	0.000319768	0.001658505
RNF152	13.84647051	12.83003307	-1.016437441	0.000298025	0.001598018
RNF17	3.741887622	1.587461719	-2.154425904	0.006840842	0.017406247
RNF212B	10.32754642	9.199137056	-1.128409367	0.001260525	0.00468919
RNR1	12.14317372	9.572844411	-2.570329311	1.36E-05	0.000170337
RNR2	12.313323	9.903093915	-2.410229085	5.63E-06	9.22E-05
RPL32	13.04906073	14.07570024	1.026639504	2.12E-08	4.42E-06
RPLP0	13.97245402	15.0122123	1.039758274	9.82E-06	0.00013953
RPS19	12.35019007	13.39219987	1.042009804	2.55E-07	1.37E-05
RPS2	13.35385662	14.47177124	1.117914615	1.49E-07	9.92E-06
RPS3	13.37928607	14.39253249	1.013246422	2.12E-08	4.42E-06
RPS8	13.28560723	14.38750812	1.101900889	9.83E-06	0.00013953
RPSA	12.77974517	13.84424159	1.064496426	4.25E-08	5.08E-06
RUBCNL	7.652184822	8.736875019	1.084690196	0.00307561	0.009346062
RUNDC3B	8.720952678	7.679236459	-1.041716219	2.06E-06	4.71E-05
RUNX1	9.602830278	10.63412209	1.031291807	0.015581059	0.033436314
RUNX3	7.484369422	8.739151481	1.254782059	0.007724375	0.019082698
RYR1	8.717253778	9.723163367	1.005909589	0.000118628	0.000798045
S100A4	8.423374022	9.754702511	1.331328489	9.56E-07	2.89E-05
S100A6	12.09758807	13.19279556	1.095207496	5.63E-06	9.22E-05
S100B	4.445677022	5.742514515	1.296837493	0.001994725	0.006703936
S1PR4	5.825332956	7.368728593	1.543395637	0.000460787	0.00218016
SAA1	4.030436011	6.543350459	2.512914448	0.001994725	0.006703936
SALL3	10.20724604	8.506247781	-1.700998263	2.32E-05	0.000244525
SAMHD1	10.32349471	11.37064821	1.047153496	0.005281184	0.014283284
SASH3	8.232074433	9.748174533	1.5161001	0.000118628	0.000798045
SCARA3	8.506258744	9.586042922	1.079784178	0.001716851	0.005987476
SCARA5	4.545284956	7.310160915	2.764875959	7.63E-06	0.000114982
SCARNA21	10.27955699	11.47592191	1.196364922	4.08E-06	7.53E-05
SCEL	2.4642441	4.605605841	2.141361741	0.002901139	0.009088973
SCML4	6.128323622	7.508970219	1.380646596	0.013932678	0.030533275
SCN1A	5.332921367	3.738454004	-1.594467363	0.019372344	0.039844
SCN7A	9.525459256	8.427129533	-1.098329722	7.63E-06	0.000114982
SCNN1B	11.18695882	10.0342605	-1.152698322	1.36E-05	0.000170337
SEC14L5	7.2447716	6.015021111	-1.229750489	0.001260525	0.00468919
SEPLG	8.251841244	9.528484974	1.27664373	0.002310776	0.007501587
SERPINA3	6.767019178	9.401235752	2.634216574	6.14E-05	0.000493555
SERPINA4	9.467566489	7.987554033	-1.480012456	2.32E-05	0.000244525
SERPINA5	13.33488321	12.27916607	-1.055717141	0.00038469	0.001915198
SERPINC1	7.571979044	6.482030956	-1.089948089	0.009486163	0.022733565
SFRP2	5.675220078	8.290264385	2.615044307	0.00038469	0.001915198
SFRP4	7.368967578	8.589725819	1.220758241	0.012434026	0.027890332

SFXN2	13.21882032	12.2075563	-1.011264026	0.001260525	0.00468919
SH2D1A	4.675019389	6.074237881	1.399218493	0.001075106	0.004146384
SH3BP1	7.318097956	8.397573537	1.079475581	0.004630835	0.012878433
SIGLEC1	9.707217356	10.9059833	1.198765941	0.001994725	0.006703936
SIGLEC6	4.452847778	6.498620956	2.045773178	0.000653663	0.002845514
SIGLEC8	3.191999267	4.781985841	1.589986574	0.021539551	0.043500221
SIRPB2	5.695337478	6.748358204	1.053020726	0.002669612	0.008400777
SIRPG	4.168089633	6.121340804	1.95325117	0.000178961	0.001075178
SIRPG-AS1	2.289277489	4.719280237	2.430002748	0.00042241	0.002088054
SIT1	5.093825878	6.917351452	1.823525574	0.000653663	0.002845514
SLA2	6.556724878	8.250547707	1.69382283	2.93E-06	6.06E-05
SLAMF1	5.715771011	7.246306178	1.530535167	0.003534166	0.01039411
SLAMF6	5.853140767	7.273209741	1.420068974	0.006008756	0.015730247
SLAMF7	6.884043056	8.68856163	1.804518574	0.004630835	0.012878433
SLC10A2	10.53617113	9.51277837	-1.023392763	0.000653663	0.002845514
SLC10A5	8.212021567	6.657747941	-1.554273626	2.93E-06	6.06E-05
SLC12A3	15.77858188	13.86036391	-1.91821797	0.00072495	0.003136112
SLC13A3	16.42976624	15.3615739	-1.068192344	0.000293761	0.001585238
SLC13A5	5.321625078	3.860192911	-1.461432167	0.023905264	0.047276086
SLC16A10	10.67946551	9.619306511	-1.060159	3.83E-05	0.000352659
SLC17A7	4.509452111	5.607748781	1.09829667	0.000178961	0.001075178
SLC19A2	10.46526112	9.422121004	-1.043140119	2.12E-08	4.42E-06
SLC22A8	15.71806553	14.47513022	-1.242935311	0.000722085	0.003129751
SLC23A1	12.5378003	11.42883285	-1.108967452	0.000178961	0.001075178
SLC23A3	12.7172258	11.59433114	-1.122894663	0.00984202	0.023183842
SLC24A4	6.039611733	7.231700156	1.192088422	0.000944832	0.003780979
SLC25A25	11.97288688	10.89734222	-1.075544659	2.12E-08	4.42E-06
SLC25A48	9.2101895	8.171866048	-1.038323452	0.006008756	0.015730247
SLC26A4	10.03125953	8.438873615	-1.592385919	0.000460787	0.00218016
SLC26A7	11.89417942	10.50862419	-1.38555523	2.06E-06	4.71E-05
SLC28A2	8.119501244	6.652006578	-1.467494667	0.011073759	0.025492733
SLC2A12	10.22684334	9.177539	-1.049304344	0.000218157	0.001239939
SLC2A2	11.88455018	10.74952979	-1.135020385	2.93E-06	6.06E-05
SLC2A3	11.37897981	9.401911289	-1.977068522	6.37E-07	2.28E-05
SLC34A2	9.403054089	10.71837432	1.31532023	0.008728547	0.021002819
SLC34A3	12.32346894	11.09632144	-1.227147504	0.000653663	0.002845514
SLC36A2	14.53120959	12.97491898	-1.556290611	1.16E-05	0.000157516
SLC38A5	5.808975344	6.840741581	1.031766237	0.004375143	0.012482254
SLC4A1	13.30083612	11.94279073	-1.358045389	0.000264745	0.001432524
SLC4A9	12.96028123	11.72337228	-1.236908956	0.000319768	0.001658505
SLC5A12	15.43354048	14.30831938	-1.125221096	3.65E-05	0.000352659
SLC6A17	9.387454889	7.80218013	-1.585274759	1.91E-05	0.000218314
SLC8A1-AS1	8.071828211	6.738508381	-1.33331983	2.93E-06	6.06E-05
SLCO4A1-AS1	6.718129622	4.954504563	-1.763625059	0.000653663	0.002845514

SLCO5A1	4.682262422	5.813356763	1.131094341	0.004050528	0.011607841
SLFN12L	5.742281378	6.823178856	1.080897478	0.005281184	0.014283284
SLIT2-IT1	7.466591933	6.221943448	-1.244648485	4.87E-05	0.000416496
SLIT3	12.48604122	13.49459049	1.00854927	0.000118628	0.000798045
SLPI	6.837094678	9.285206193	2.448111515	0.000218157	0.001239939
SNCAIP	7.1766392	8.253111604	1.076472404	6.14E-05	0.000493555
SNORA104	6.2537036	5.176568163	-1.077135437	0.006820434	0.01737225
SNORA53	9.481285711	8.339296007	-1.141989704	1.36E-05	0.000170337
SNORA63	7.374272622	5.990505296	-1.383767326	8.50E-08	7.43E-06
SNORD133	12.52875788	11.38746836	-1.141289519	3.00E-05	0.000295866
SNORD97	6.756281767	5.206445926	-1.549835841	2.55E-07	1.37E-05
SNTG1	6.812316211	5.070130904	-1.742185307	0.000913862	0.003666212
SNX20	6.878021944	8.659612396	1.781590452	0.000218157	0.001239939
SOST	9.498118956	8.041541685	-1.45657727	0.000460787	0.00218016
SOWAHD	4.422606433	5.726511159	1.303904726	9.98E-05	0.000705623
SP140	6.3641483	8.075370219	1.711221919	0.001473392	0.00531078
SPDYE7P	6.243826	3.352225563	-2.891600437	0.000460787	0.00218016
SPHK1	6.654760378	7.798264885	1.143504507	0.001994725	0.006703936
SPIB	5.303695933	7.636576074	2.332880141	0.001075106	0.004146384
SPN	8.356079478	9.699929078	1.3438496	0.004050528	0.011607841
SPOCD1	3.274367744	4.605358181	1.330990437	0.006820434	0.01737225
SPON1	10.13042563	11.36853837	1.238112741	4.08E-06	7.53E-05
SPON2	10.42312651	11.62797753	1.204851019	0.000913862	0.003666212
SPSB4	7.187089356	6.072645033	-1.114444322	0.008728547	0.021002819
SRPX	6.215559467	7.469486615	1.253927148	6.32E-05	0.000506494
SRRM4	7.650310867	4.435404763	-3.214906104	0.001007575	0.004022027
ST3GAL6-AS1	6.517211256	5.287348667	-1.229862589	0.000394196	0.001952805
ST6GALNAC3	9.868248944	8.5193311	-1.348917844	1.42E-06	3.74E-05
ST8SIA1	6.411605122	7.465811152	1.05420603	4.08E-06	7.53E-05
STEAP4	8.707843678	10.03783907	1.329995393	0.000218157	0.001239939
STMN2	0.860161011	2.904413581	2.04425257	0.001994725	0.006703936
STPG3	8.855811078	7.587481878	-1.2683292	0.000460787	0.00218016
STPG3-AS1	9.022247144	7.722049393	-1.300197752	4.87E-05	0.000416496
STRA6	11.99095348	10.73616242	-1.254791059	0.006008756	0.015730247
SUSD2	14.03178949	12.89123104	-1.140558448	0.001716851	0.005987476
SVEP1	11.47670157	13.0377653	1.56106373	8.50E-08	7.43E-06
SYCP2	8.811396367	7.106269274	-1.705127093	2.93E-06	6.06E-05
SYNC	5.870550789	7.004409163	1.133858374	1.42E-06	3.74E-05
SYT10	7.204061867	5.688823548	-1.515238319	6.37E-07	2.28E-05
SYT12	4.740492489	6.48628633	1.745793841	0.001075106	0.004146384
SYT16	4.6870525	6.623386393	1.936333893	0.000118628	0.000798045
TBX18	4.0574405	5.562453022	1.505012522	0.001479958	0.005317687
TBX21	5.558716422	6.646713915	1.087997493	0.004630835	0.012878433
TCEAL2	7.770874	6.4183821	-1.3524919	1.49E-07	9.92E-06

TCF24	7.256186478	5.254371611	-2.001814867	3.83E-05	0.000352659
TDO2	2.910004656	4.896204974	1.986200319	0.001222421	0.004689072
TESC	7.829527233	9.055889767	1.226362533	1.78E-05	0.000205405
TESPA1	5.759293311	7.261585926	1.502292615	0.004630835	0.012878433
TEX41	8.464444578	6.928510989	-1.535933589	2.12E-08	4.42E-06
TGFBI	10.73670329	11.99425495	1.257551659	1.78E-05	0.000205405
THBS2	9.945361178	11.6063792	1.661018026	0.001075106	0.004146384
THEMIS	6.100577478	7.576719659	1.476142181	0.007724375	0.019082698
THPO	8.5689625	7.510009226	-1.058953274	0.000653663	0.002845514
TIFAB	2.7670423	5.543242367	2.776200067	3.00E-05	0.000295866
TIGIT	5.616522922	7.293933707	1.677410785	4.08E-06	7.53E-05
TIMP1	10.25324911	12.02020422	1.766955111	9.58E-05	0.000677876
TINCR	6.850507456	5.341256507	-1.509250948	0.000653663	0.002845514
TLR10	4.5389565	6.089150667	1.550194167	0.006008756	0.015730247
TLR6	7.081550733	8.141078959	1.059528226	0.007724375	0.019082698
TLR8	5.646287344	6.698777656	1.052490311	0.012325729	0.027890332
TM4SF5	8.881875044	7.772206341	-1.109668704	0.000264745	0.001432524
TMC3	3.6451604	5.0218132	1.3766528	0.000277681	0.001498971
TMC8	8.780927967	10.31658132	1.535653352	0.005281184	0.014283284
TMEM105	8.126979267	6.465738785	-1.661240481	0.015581059	0.033436314
TMEM119	8.367097211	9.780788511	1.4136913	6.37E-07	2.28E-05
TMEM132D	2.909290867	5.102496656	2.193205789	0.005190571	0.014283284
TMEM154	6.068492578	7.139264785	1.070772207	0.00984202	0.023183842
TMEM178A	10.15849552	9.11540843	-1.043087093	0.000460787	0.00218016
TMEM179	4.982921	6.387577567	1.404656567	0.012434026	0.027890332
TMEM200C	7.936211956	6.35208817	-1.584123785	9.56E-07	2.89E-05
TMEM207	8.752645956	7.308639341	-1.444006615	0.001075106	0.004146384
TMEM52	6.403111011	5.381611878	-1.021499133	0.015581059	0.033436314
TMEM52B	13.37225754	12.00966187	-1.362595678	6.37E-07	2.28E-05
TMEM54	8.607381667	9.696021941	1.088640274	3.83E-05	0.000352659
TMEM59L	4.743265	6.039787733	1.296522733	0.000155936	0.000986447
TMEM92	3.073648044	4.398075485	1.324427441	0.000218157	0.001239939
TMIGD1	7.127654467	5.339495485	-1.788158981	0.001260525	0.00468919
TMOD4	5.922286744	7.207370011	1.285083267	2.55E-07	1.37E-05
TMSB10	11.82930767	13.32501963	1.495711963	5.63E-06	9.22E-05
TMSB4X	12.86593903	14.2752804	1.409341363	5.63E-06	9.22E-05
TNC	11.62390368	13.37334731	1.74944363	0.000913862	0.003666212
TNFAIP8	8.363552244	9.431996256	1.068444011	6.14E-05	0.000493555
TNFAIP8L2	7.089151811	8.153001233	1.063849422	4.25E-08	5.08E-06
TNFRSF11A	6.508087922	7.53682643	1.028738507	0.002310776	0.007501587
TNFRSF12A	9.706299733	10.71330984	1.007010111	0.008728547	0.021002819
TNFRSF18	3.108105133	4.739708067	1.631602933	0.010543297	0.024773807
TNFRSF4	5.836832156	6.903679078	1.066846922	0.001075106	0.004146384
TNFSF14	5.074959878	6.803833415	1.728873537	0.000460787	0.00218016

TNFSF8	6.744649989	7.82759533	1.082945341	0.000774288	0.003234177
TNN	7.128812111	5.976048415	-1.152763696	0.006008756	0.015730247
TNNI2	3.116463178	4.699956619	1.583493441	0.008728547	0.021002819
TNNT2	9.718845211	8.46768497	-1.251160241	7.63E-06	0.000114982
TNNT3	3.123006689	4.676020426	1.553013737	0.023500502	0.047263728
TNS4	8.974869211	6.944712363	-2.030156848	2.32E-05	0.000244525
TPSAB1	6.040154589	7.858548356	1.818393767	0.00307561	0.009346062
TPSB2	6.522970467	8.31526233	1.792291863	0.00307561	0.009346062
TPSD1	3.648098078	5.389346419	1.741248341	0.011073759	0.025492733
TRAF3IP3	8.013155156	9.187527522	1.174372367	0.00038469	0.001915198
TRANK1	10.66359933	11.76830695	1.104707619	4.87E-05	0.000416496
TRAT1	3.219401411	5.188165952	1.968764541	0.000319768	0.001658505
TREM1	6.097865467	4.838020774	-1.259844693	0.002310776	0.007501587
TREML1	4.313813911	5.590523704	1.276709793	1.78E-05	0.000205405
TREML2	3.263310811	4.952322596	1.689011785	0.019373277	0.039844
TRG-AS1	5.342049378	6.698411919	1.356362541	0.000264745	0.001432524
TRIM50	9.915259956	7.409679374	-2.505580581	2.32E-05	0.000244525
TRIM72	4.166422656	2.576598126	-1.58982453	0.00034297	0.001771385
TRPM6	11.63131719	9.278664363	-2.352652826	7.63E-06	0.000114982
TSHZ2	9.373987289	10.60434474	1.230357452	6.37E-07	2.28E-05
TSKU	12.77372126	11.71482768	-1.058893578	9.58E-05	0.000677876
TTPA	7.580277056	6.49979667	-1.080480385	0.001075106	0.004146384
TTY14	7.862026289	5.716590933	-2.145435356	0.023500502	0.047263728
TUB-AS1	8.818046533	7.750360963	-1.06768557	0.000774288	0.003234177
TUBA1A	10.59708279	11.60541822	1.00833543	0.002669612	0.008400777
TUBB3	5.077714156	7.6026304	2.524916244	0.000460787	0.00218016
TYROBP	8.684539911	10.13261153	1.448071615	0.000178961	0.001075178
UBASH3A	5.766039156	7.483506263	1.717467107	0.00214792	0.007184112
UBE2C	4.377307133	5.395397652	1.018090519	0.023905264	0.047276086
UCN3	6.610020367	5.322604004	-1.287416363	0.002310776	0.007501587
UGT2B7	15.22840263	13.9590668	-1.269335833	2.32E-05	0.000244525
USP9Y	10.57922896	7.890418426	-2.68881053	0.00490465	0.013600338
VASH1	10.17237339	11.19525017	1.022876778	1.42E-06	3.74E-05
VAV1	8.209001944	9.516369822	1.307367878	0.006820434	0.01737225
VCAN	10.59596008	12.85625869	2.260298607	0.001716851	0.005987476
VEGFA	13.94708777	12.93337151	-1.013716259	2.12E-08	4.42E-06
VIM	12.83595322	13.97628229	1.14032907	0.000452501	0.00218016
VSIG4	8.719096	9.913039359	1.193943359	0.000460787	0.00218016
VWF	11.56043968	12.86720686	1.306767185	0.004050528	0.011607841
WBSCR17	9.408238111	8.259864456	-1.148373656	0.001075106	0.004146384
WDR49	6.819176244	5.689257393	-1.129918852	0.000178961	0.001075178
WDR86	7.616181233	8.718689767	1.102508533	0.000264745	0.001432524
WFDC2	10.1594503	11.97815504	1.818704737	7.69E-05	0.000583998
WISP2	2.728136622	4.990320359	2.262183737	0.000118628	0.000798045

WNT10A	5.796883489	7.513100881	1.716217393	0.000218157	0.001239939
WNT4	7.175698833	8.592329874	1.416631041	1.38E-05	0.000171666
WNT7A	3.869583644	5.467637456	1.598053811	0.000549885	0.002497649
WNT7B	4.019903811	5.697108785	1.677204974	0.004630835	0.012878433
WT1	10.82579511	9.382107389	-1.443687722	2.55E-07	1.37E-05
WT1-AS	8.734844922	7.584458141	-1.150386781	0.000146054	0.000925394
XCL2	2.8601585	4.563024241	1.702865741	0.001473392	0.00531078
XPNPPE2	15.34687584	14.12174424	-1.225131607	0.000484177	0.002288694
XYLT1	9.338278644	10.39699621	1.058717567	9.58E-05	0.000677876
ZAP70	7.850523367	9.068470081	1.217946715	0.01589401	0.034016708
ZBED2	4.574848411	5.753340652	1.178492241	0.011073759	0.025492733
ZBP1	5.896378367	7.273612893	1.377234526	0.015581059	0.033436314
ZBTB16	11.56782036	10.47648364	-1.091336711	0.003534166	0.01039411
ZCCHC16	6.545698889	5.193719481	-1.351979407	0.001473392	0.00531078
ZFP36	13.49359756	11.14399402	-2.349603537	1.38E-05	0.000171666
ZNF732	5.489978556	4.323442811	-1.166535744	0.006140938	0.016044805
ZNF804B	8.726937889	6.983283119	-1.74365477	2.06E-06	4.71E-05
ZNF831	6.684740178	8.290952719	1.606212541	0.002310776	0.007501587
ZNF91	11.97772381	10.86384329	-1.113880526	2.93E-06	6.06E-05
ZNF98	6.378201389	5.241917841	-1.136283548	0.00167538	0.005987476
ZNF99	6.505564356	4.942016541	-1.563547815	0.000913862	0.003666212
ZRANB2-AS1	6.399191967	5.254095404	-1.145096563	0.00038469	0.001915198
ZYG11A	10.80209623	9.50995767	-1.292138563	0.012434026	0.027890332

Table S5. Differentially expressed miRNAs between DKD and normal samples in GSE51674. (log₂|fold change|>1.5 & P-value<0.001)

id	logFC	AveExpr	t	P-Value
hsa-miR-1237	-6.781898205	-1.207251468	-6.24599128	0.000239882
hsa-miR-33b*	-6.751953748	-2.439218556	-5.634626021	0.000478226
hsa-miR-1225-3p	-5.546789639	-0.46592318	-5.871683751	0.000363906
hsa-miR-1228	-5.411731387	-0.344029035	-6.845644914	0.000127428
hsa-miR-1234	-5.277046716	-0.093818091	-5.912615736	0.000347395
hsa-miR-1268	-4.702316857	-1.114630725	-5.969878334	0.000325664
hsa-miR-572	-3.839112239	0.489962979	-6.655043355	0.00015511
hsa-miR-1275	-3.592412526	-1.483815665	-5.602172737	0.000496736
hsa-miR-1229	-2.538195133	-1.740898587	-6.8811916	0.000122895
hsa-miR-1539	-2.538195133	-1.740898587	-6.8811916	0.000122895
hsa-miR-2116*	-2.538195133	-1.740898587	-6.8811916	0.000122895
hsa-miR-296-5p	-2.538195133	-1.740898587	-6.8811916	0.000122895
hsa-miR-602	-2.538195133	-1.740898587	-6.8811916	0.000122895
hsa-miR-634	-2.419985558	-1.669972842	-5.663225724	0.00046254
hsa-miR-320a	-2.363857029	-1.133534527	-10.4343553	5.87E-06
hsa-miR-1274b	-2.267372529	-1.017264876	-6.323089255	0.000220623
hsa-miR-92b	-2.223839888	-1.406964028	-6.377399648	0.000208081
hsa-miR-1227	-2.000604305	-1.14333936	-5.951157213	0.000332599
hsa-miR-1307	-2.000604305	-1.14333936	-5.951157213	0.000332599
hsa-miR-339-3p	-2.000604305	-1.14333936	-5.951157213	0.000332599
hsa-miR-563	-2.000604305	-1.14333936	-5.951157213	0.000332599
hsa-miR-138	-1.598611224	-0.793822177	-5.580244507	0.000509688
hsa-miR-625*	-1.598611224	-0.793822177	-5.580244507	0.000509688
hsa-miR-16	1.502869505	-0.124347866	5.969286514	0.000325881
hsa-miR-195	1.559928167	0.075110497	8.733472672	2.21E-05
hsa-let-7a	1.583118313	0.227206294	10.15091553	7.22E-06
hsa-miR-28-5p	2.309008962	-0.462391676	6.017370972	0.000308772
hsa-miR-21	2.493016703	0.151631922	6.827144879	0.00012986
hsa-miR-183	2.81815391	-0.190992666	6.466827256	0.000189108
hsa-miR-145*	2.824353444	-0.097653308	6.258156313	0.000236724
hsa-miR-590-5p	2.835070108	-0.296052991	6.070968709	0.000290858
hsa-miR-454	3.092428919	0.501608147	6.035385143	0.000302619
hsa-miR-361-3p	3.262406075	-0.374799768	5.834299338	0.000379742
hsa-miR-429	3.354500593	-0.671699435	5.70777136	0.000439222
hsa-miR-181c	3.513761614	0.977997642	7.064259306	0.000102206
hsa-miR-139-5p	3.700589339	-0.771068688	5.836841165	0.000378642
hsa-miR-31*	3.746812622	0.563481421	6.614546319	0.000161812
hsa-miR-132	3.799595944	-0.84413016	6.09183002	0.000284198
hsa-miR-301a	3.810770015	-0.102553968	5.892715101	0.000355317
hsa-miR-199b-5p	3.8715256	0.101844006	6.981419036	0.000111048
hsa-miR-335	3.911184717	-0.074868113	7.410929671	7.28E-05

hsa-miR-155	3.961274761	-0.076695036	7.455600233	6.97E-05
hsa-miR-34a	4.347596972	-1.319340394	5.593597095	0.000501758
hsa-miR-95	4.488444076	1.948074145	8.813849907	2.07E-05
hsa-miR-223	4.571223029	0.034276541	9.180795731	1.53E-05
hsa-miR-374b	4.874439394	-1.043100147	6.739119934	0.000142155
hsa-miR-146a	4.894443099	-1.302082998	6.549969862	0.000173169
hsa-miR-374a	5.302143696	-0.637735689	7.114471069	9.72E-05
hsa-miR-142-5p	5.370490783	1.677522092	6.364304657	0.000211031
hsa-miR-186	5.417009521	2.57956558	10.59483502	5.23E-06
hsa-miR-146b-5p	5.509728269	-1.12671439	7.03508031	0.000105228
hsa-miR-126*	6.024205142	3.396541578	19.18507507	5.20E-08
hsa-miR-135b	7.618639091	4.260549597	26.95923824	3.49E-09

Table S6. Co-expressed lncRNAs and mRNAs (R>0.6 and P-value<0.05; Pearson correlation)

lncRNAs	mRNAs	Pearson correlation coefficient	P-value
TEX41	NR4A2	0.670047166	7.82E-06
TEX41	CYP3A5	0.668967246	8.19E-06
DRAIC	CYP3A5	0.61332991	6.97E-05
WT1-AS	MME	0.861097503	1.61E-11
TEX41	MME	0.816118254	1.31E-09
DRAIC	MME	0.9119662	1.03E-14
WT1-AS	CDH20	0.723485089	6.18E-07
TEX41	CDH20	0.675483742	6.19E-06
DRAIC	CDH20	0.858722676	2.10E-11
TEX41	GADD45B	0.613091655	7.03E-05
MSC-AS1	LY9	0.872906643	3.90E-12
WT1-AS	SLC13A3	0.85520478	3.11E-11
TEX41	SLC13A3	0.725452199	5.57E-07
DRAIC	SLC13A3	0.86822149	6.95E-12
WT1-AS	SLC26A7	0.660415176	1.17E-05
TEX41	SLC26A7	0.852961758	3.96E-11
DRAIC	SLC26A7	0.704316423	1.64E-06
MSC-AS1	POU2AF1	0.841872959	1.25E-10
WT1-AS	ATP6V0D2	0.808107823	2.54E-09
TEX41	ATP6V0D2	0.842713391	1.15E-10
DRAIC	ATP6V0D2	0.803941475	3.53E-09
TEX41	GAD1	0.796571809	6.22E-09
DRAIC	GAD1	0.668536906	8.34E-06
WT1-AS	PRODH2	0.874561306	3.16E-12
TEX41	PRODH2	0.699248056	2.09E-06
DRAIC	PRODH2	0.901382604	6.56E-14
MSC-AS1	C3	0.85864469	2.12E-11
WT1-AS	KL	0.821605215	8.20E-10
TEX41	KL	0.768738953	4.36E-08
DRAIC	KL	0.882863544	1.06E-12
TEX41	ZFP36	0.605797836	9.03E-05
WT1-AS	TMEM178A	0.815560096	1.38E-09
TEX41	TMEM178A	0.79296221	8.14E-09
DRAIC	TMEM178A	0.72749963	4.99E-07
WT1-AS	NTNG1	0.946056592	3.27E-18
TEX41	NTNG1	0.690047982	3.22E-06
DRAIC	NTNG1	0.775641608	2.76E-08
WT1-AS	ADM	0.759309918	7.94E-08
TEX41	ADM	0.606989039	8.67E-05
DRAIC	ADM	0.623592107	4.84E-05
MSC-AS1	INHBA	0.868279608	6.90E-12
LINC00639	INHBA	0.603422478	9.79E-05

TEX41	HSPA1B	0.683090533	4.42E-06
MSC-AS1	LAMA4	0.780078833	2.04E-08
LINC00639	LAMA4	0.693743762	2.71E-06
WT1-AS	FMN2	0.947865998	1.86E-18
TEX41	FMN2	0.80061117	4.57E-09
DRAIC	FMN2	0.794472348	7.28E-09
MSC-AS1	PXDN	0.844346991	9.72E-11
LINC00639	PXDN	0.716502647	8.90E-07
MSC-AS1	DLGAP1	0.873718584	3.52E-12
MSC-AS1	MGP	0.719853664	7.48E-07
WT1-AS	CLIC5	0.961948489	9.79E-21
TEX41	CLIC5	0.746495371	1.72E-07
DRAIC	CLIC5	0.821858619	8.02E-10
MSC-AS1	GRIN2A	0.802162405	4.06E-09
WT1-AS	SLC12A3	0.867535339	7.55E-12
TEX41	SLC12A3	0.729691953	4.44E-07
DRAIC	SLC12A3	0.820151018	9.30E-10
MSC-AS1	CCDC3	0.753253987	1.15E-07
LINC00639	CCDC3	0.768508236	4.42E-08
MSC-AS1	VCAN	0.925627439	6.55E-16
LINC00639	VCAN	0.702095573	1.82E-06
TEX41	FOSB	0.629040974	3.97E-05
WT1-AS	PCOLCE2	0.936105912	5.38E-17
TEX41	PCOLCE2	0.728544465	4.72E-07
DRAIC	PCOLCE2	0.845238836	8.88E-11
MSC-AS1	ABCA13	0.690301881	3.18E-06
LINC00639	ABCA13	0.82458403	6.31E-10
WT1-AS	ESM1	0.804630218	3.34E-09
TEX41	ESM1	0.681835021	4.67E-06
DRAIC	ESM1	0.754076884	1.09E-07
WT1-AS	IL1RL1	0.739026889	2.64E-07
TEX41	IL1RL1	0.733426796	3.61E-07
DRAIC	IL1RL1	0.600388085	0.00010837
MSC-AS1	TSHZ2	0.856599397	2.66E-11
LINC00639	TSHZ2	0.717035556	8.66E-07
MSC-AS1	ITGB6	0.841206216	1.33E-10
LINC00639	ITGB6	0.708681198	1.32E-06
MSC-AS1	VIM	0.886639454	6.23E-13
LINC00639	VIM	0.67285254	6.93E-06
MSC-AS1	SLIT3	0.811081434	1.99E-09
LINC00639	SLIT3	0.632913934	3.44E-05
MSC-AS1	MS4A1	0.777260725	2.47E-08
WT1-AS	PTPRO	0.936770429	4.53E-17
TEX41	PTPRO	0.774543071	2.97E-08

DRAIC	PTPRO	0.7940815	7.49E-09
WT1-AS	F3	0.813176039	1.68E-09
TEX41	F3	0.7731111608	3.27E-08
DRAIC	F3	0.765949211	5.22E-08
MSC-AS1	ADAM12	0.825290669	5.93E-10
LINC00639	ADAM12	0.779640629	2.10E-08
WT1-AS	NPHS1	0.905415826	3.33E-14
TEX41	NPHS1	0.671652947	7.30E-06
DRAIC	NPHS1	0.746844304	1.68E-07
TEX41	EGF	0.772640889	3.37E-08
DRAIC	EGF	0.759406098	7.89E-08
WT1-AS	PCDH15	0.754219223	1.09E-07
TEX41	PCDH15	0.736291012	3.08E-07
DRAIC	PCDH15	0.869894237	5.67E-12
MSC-AS1	TIMP1	0.875853208	2.68E-12
LINC00639	TIMP1	0.712814786	1.07E-06
TEX41	PDK4	0.642163489	2.42E-05
MSC-AS1	ABCC9	0.820537536	9.00E-10
LINC00639	ABCC9	0.679821364	5.11E-06
MSC-AS1	SLCO5A1	0.757396113	8.94E-08
TEX41	ERRFI1	0.68075398	4.91E-06
TEX41	ATF3	0.619886666	5.53E-05
WT1-AS	WT1	0.975409224	6.49E-24
TEX41	WT1	0.759332279	7.93E-08
DRAIC	WT1	0.798910423	5.21E-09
MSC-AS1	TNC	0.834524529	2.54E-10
LINC00639	TNC	0.786337104	1.32E-08
WT1-AS	CYP4Z1	0.668170166	8.47E-06
TEX41	CYP4Z1	0.699238952	2.09E-06
DRAIC	CYP4Z1	0.661935948	1.10E-05
MSC-AS1	MICAL2	0.861778642	1.49E-11
LINC00639	MICAL2	0.659343701	1.22E-05
MSC-AS1	COL14A1	0.820823142	8.78E-10
LINC00639	COL14A1	0.699374048	2.08E-06
MSC-AS1	BCL11A	0.823135104	7.17E-10
MSC-AS1	CP	0.884291772	8.67E-13
WT1-AS	PAH	0.852511174	4.16E-11
TEX41	PAH	0.756200803	9.62E-08
DRAIC	PAH	0.900885444	7.11E-14