

Supplementary Table 1. Antibodies

Antibody	Cat. No.	Company
Col1A1	67288-1	Proteintech
S100A4	66489-1	Proteintech
α -SMA	67735-1	Proteintech
CD31	66065-2	Proteintech
SUSD2	ab121214	Abcam
CD146	66153-1	Proteintech
CD140 β	13449-1	Proteintech
CD73	10904-MM07-F	Sino Biological
C90	16897-MM10-F	Sino Biological
CD105	10149-MM11-F	Sino Biological
CD45	10086-MM05-F	Sino Biological
CD34	68035-XM01-F	Sino Biological
CD19	11880-MM17-F	Sino Biological
CD11b	FITC-65055	Proteintech
HLA-DR	68038-XM01-F	Sino Biological

Supplementary Table 2. Up-regulated genes in IUA samples

Genes	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
BBS1	886.566	0.14648	0.05796	2.52734	0.01149	0.07963
PEX3	495.267	0.14789	0.05884	2.51361	0.01195	0.08175
DNAJC7	1036.49	0.15061	0.05593	2.69271	0.00709	0.05802
LMF2	1060.71	0.15202	0.05194	2.92683	0.00342	0.03553
MSL3	631.09	0.16461	0.06578	2.50246	0.01233	0.08367
OTUD5	840.572	0.1668	0.06366	2.62	0.00879	0.06683
EED	557.568	0.16789	0.06959	2.41243	0.01585	0.09848
YY1AP1	1190.55	0.17211	0.05763	2.98635	0.00282	0.03127
EIF4E2	980.05	0.17633	0.04903	3.59614	0.00032	0.00747
FBXO8	521.259	0.1811	0.07505	2.41293	0.01582	0.09841
TENT2	1206.94	0.18319	0.06739	2.71837	0.00656	0.0547
WDR48	1010.52	0.18613	0.05523	3.36995	0.00075	0.01335
MRPS18C	684.912	0.18783	0.07708	2.43679	0.01482	0.09436
EFCAB14	2522.38	0.18873	0.07059	2.67386	0.0075	0.06002
RNMT	759.284	0.18918	0.07511	2.51871	0.01178	0.08105
PRKRA	1033.71	0.1904	0.07901	2.40987	0.01596	0.0989
GPN2	409.956	0.19262	0.0772	2.49493	0.0126	0.08477
NEPRO	590.636	0.19448	0.08089	2.40429	0.0162	0.09989
MECP2	1733.37	0.19594	0.06636	2.95275	0.00315	0.03353
CTSA	1250.36	0.20255	0.08217	2.46492	0.0137	0.08998
HARS2	462.521	0.20564	0.0708	2.9045	0.00368	0.03707
SNRNP48	714.321	0.20845	0.06012	3.4672	0.00053	0.01039
GOLGA2	1905.19	0.20933	0.07206	2.90503	0.00367	0.03705
TRMT13	645.461	0.20997	0.07476	2.80877	0.00497	0.04516
CLIC2	559.73	0.21145	0.08345	2.53385	0.01128	0.07873
REPS1	655.131	0.21258	0.0835	2.54579	0.0109	0.077
PI4KB	1319.76	0.21379	0.05994	3.56679	0.00036	0.00797
0.192	331.36	0.21522	0.08736	2.46344	0.01376	0.0902
SLC35C2	681.141	0.21596	0.0767	2.81572	0.00487	0.0445
CLCN7	1113.68	0.21761	0.08042	2.706	0.00681	0.05624
DDX56	806.856	0.21765	0.0872	2.49594	0.01256	0.08462
CEP57	718.103	0.22259	0.0872	2.55253	0.01069	0.076
EXD2	531.993	0.22319	0.07843	2.84557	0.00443	0.04208
GNPAT	499.743	0.22646	0.09004	2.515	0.0119	0.0816
GTF3C3	516.641	0.22676	0.09001	2.5192	0.01176	0.08101
ANKRD11	3373.96	0.22699	0.08481	2.67636	0.00744	0.05974
ARHGEF11	1364.85	0.22997	0.09035	2.54532	0.01092	0.07706
EHMT2	1270.49	0.23177	0.09502	2.43921	0.01472	0.09411
SUPV3L1	343.73	0.23226	0.09277	2.50352	0.0123	0.0836
VPS11	768.45	0.23245	0.07742	3.00263	0.00268	0.03024
FAAP20	594.693	0.23536	0.09653	2.43809	0.01477	0.09419
CEPT1	921.638	0.23565	0.08947	2.63401	0.00844	0.06514
UNK	806.785	0.2358	0.0879	2.68246	0.00731	0.05902
TMEM259	2440.81	0.2359	0.0902	2.6154	0.00891	0.06746
VPS52	930.487	0.23637	0.07055	3.35023	0.00081	0.014
TRIM41	712.21	0.238	0.09554	2.49114	0.01273	0.08528
PON2	828.07	0.23974	0.09118	2.62932	0.00856	0.06576
DYNC2I1	656.794	0.24254	0.0947	2.56128	0.01043	0.07486
COA5	360.759	0.24291	0.10013	2.4259	0.01527	0.0963
MBD1	1220.21	0.24352	0.06584	3.6988	0.00022	0.0059
0.39	285.752	0.24424	0.09294	2.62793	0.00859	0.0659
SENP6	2970.34	0.24436	0.09611	2.54237	0.01101	0.07752
HGSNAT	1987.6	0.24594	0.07737	3.17879	0.00148	0.02039

RAB3GAP1	1136.65	0.24635	0.0894	2.75556	0.00586	0.05074
TMEM222	374.638	0.2485	0.09793	2.53743	0.01117	0.07812
JAGN1	359.999	0.24959	0.09531	2.61884	0.00882	0.06704
FBXO3	556.339	0.25048	0.10181	2.46015	0.01389	0.09079
GTPBP2	759.448	0.25204	0.09352	2.69497	0.00704	0.05772
MRPS5	699.819	0.25215	0.06838	3.68748	0.00023	0.00605
MMS19	912.282	0.253	0.08374	3.02123	0.00252	0.02892
ANKRD6	284.445	0.25341	0.0886	2.86011	0.00423	0.04094
NDUFS2	869.061	0.25396	0.0781	3.25176	0.00115	0.0174
TMEM138	481.179	0.25412	0.09287	2.7362	0.00622	0.05286
ZC3H14	1365.19	0.25552	0.07899	3.23483	0.00122	0.01807
PRIMPOL	151.284	0.25559	0.09944	2.57043	0.01016	0.0735
0.153	403.735	0.25618	0.10023	2.55605	0.01059	0.07559
TMEM126B	597.337	0.25668	0.09413	2.72688	0.00639	0.05374
ATP6V1C1	662.969	0.25744	0.08553	3.01002	0.00261	0.02973
DENND1A	558.674	0.25856	0.09348	2.76596	0.00568	0.0496
ZNF706	753.68	0.25945	0.07731	3.35593	0.00079	0.01384
CNOT2	1784.53	0.26001	0.0667	3.89827	9.69E-05	0.00325
0.37	554.88	0.26044	0.09921	2.62516	0.00866	0.06614
MFN1	788.811	0.2617	0.10282	2.54513	0.01092	0.07708
SFSWAP	1258.77	0.26293	0.08856	2.96883	0.00299	0.03238
ANGEL2	495.637	0.26299	0.10939	2.40408	0.01621	0.09992
ATG12	665.127	0.26534	0.09184	2.88927	0.00386	0.0383
WDR75	1208.66	0.26667	0.09377	2.84404	0.00445	0.04214
FNTA	1163.45	0.26825	0.0786	3.41299	0.00064	0.01199
LYPLAL1	434.995	0.2684	0.10418	2.57642	0.00998	0.07275
NDUFS7	339.825	0.26982	0.11222	2.40441	0.0162	0.09989
TCEA2	383.382	0.27115	0.11059	2.45195	0.01421	0.09207
LRCH3	891.288	0.27132	0.11265	2.40862	0.01601	0.09908
FKBP15	998.262	0.27183	0.08212	3.31014	0.00093	0.01538
LZTS2	1388.62	0.27231	0.10579	2.5741	0.01005	0.07304
COPS5	489.406	0.273	0.10562	2.58482	0.00974	0.07147
SYVN1	1264.11	0.27363	0.10018	2.73122	0.00631	0.05332
CMTR2	454.632	0.27374	0.11273	2.42834	0.01517	0.0959
FBXL5	1300.97	0.2745	0.09068	3.0273	0.00247	0.02851
0.197	139.519	0.27505	0.11124	2.47263	0.01341	0.08871
ZNF155	138.08	0.27527	0.10926	2.51953	0.01175	0.08098
VPS39	1525.28	0.27551	0.09839	2.80025	0.00511	0.04591
CRBN	852.453	0.27575	0.0864	3.19156	0.00142	0.01986
PIGP	202.961	0.27663	0.093	2.97438	0.00294	0.032
DZIP1	872.626	0.27693	0.11423	2.42433	0.01534	0.09647
HPS1	1206.25	0.27786	0.08498	3.26959	0.00108	0.01675
MINDY3	351.377	0.27897	0.11295	2.46984	0.01352	0.08911
PSMD6	864.076	0.27974	0.1104	2.53389	0.01128	0.07873
EXOC1	1175.99	0.28052	0.07875	3.5623	0.00037	0.00808
0.88	176.278	0.28075	0.10154	2.76506	0.00569	0.04972
PPHLN1	817.807	0.28127	0.08936	3.14746	0.00165	0.02184
TXNDC15	861.958	0.28181	0.1163	2.42321	0.01538	0.09664
MSL1	2524.57	0.28258	0.10927	2.58598	0.00971	0.07139
RBL2	2311.77	0.28291	0.09742	2.90407	0.00368	0.0371
ZNF202	325.365	0.28292	0.10827	2.61304	0.00897	0.06774
EML2	264.465	0.28293	0.11519	2.45625	0.01404	0.09147
MPPE1	406.423	0.28418	0.07621	3.72872	0.00019	0.00536
ABCD4	834.078	0.2849	0.11754	2.42392	0.01535	0.09653
TMEM129	538.815	0.28592	0.10937	2.61431	0.00894	0.06753
ANKRD49	564.519	0.28681	0.07922	3.62043	0.00029	0.00703

NIT1	409.834	0.28868	0.07304	3.95245	7.74E-05	0.00278
POP5	209.814	0.28893	0.10458	2.76269	0.00573	0.04992
UQCC1	559.081	0.28897	0.09031	3.19978	0.00138	0.01949
TAF11	467.303	0.28913	0.11391	2.53824	0.01114	0.07805
COMMD4	456.054	0.28986	0.10845	2.67268	0.00752	0.06017
RABL2B	717.855	0.28995	0.09586	3.02466	0.00249	0.02869
NADK2	297	0.29065	0.08685	3.34671	0.00082	0.01413
SRSF4	1861.46	0.2918	0.10953	2.66401	0.00772	0.06126
COPS7B	670.022	0.29319	0.10333	2.83738	0.00455	0.04274
ANKS6	495.209	0.29324	0.12155	2.41245	0.01585	0.09848
PSME2	1036.22	0.2933	0.11649	2.51775	0.01181	0.08122
OARD1	194.662	0.29372	0.11131	2.63871	0.00832	0.06447
ZDHC3	1262.65	0.29377	0.08344	3.52066	0.00043	0.00904
TRIM21	304.927	0.29378	0.09797	2.99864	0.00271	0.03048
RCOR3	813.668	0.29381	0.09537	3.08086	0.00206	0.02533
ZCCHC9	278.508	0.29477	0.11637	2.53308	0.01131	0.07885
DCAF5	1651.1	0.29484	0.09509	3.10052	0.00193	0.02423
CHTOP	1081.14	0.2951	0.11841	2.49209	0.0127	0.08522
SLC4A2	1201.98	0.29518	0.09644	3.06075	0.00221	0.02645
0.54	313.404	0.29552	0.1212	2.43824	0.01476	0.09419
SLC9A8	404.759	0.29639	0.11749	2.52262	0.01165	0.08046
TXLNG	428.587	0.29908	0.09754	3.06619	0.00217	0.02615
CDC16	911.364	0.29913	0.07869	3.80158	0.00014	0.00437
USF1	645.788	0.29933	0.11792	2.53839	0.01114	0.07805
KLHDC1	408.419	0.3012	0.09818	3.06803	0.00215	0.02602
RPS27L	803.289	0.30149	0.10666	2.82673	0.0047	0.0435
IGIP	613.844	0.30162	0.10739	2.80867	0.00497	0.04516
COQ10A	238.336	0.30325	0.08428	3.59804	0.00032	0.00742
COX11	543.633	0.30375	0.11727	2.59018	0.00959	0.07076
TCTN1	964.766	0.30408	0.1113	2.73202	0.00629	0.05327
GGT7	425.218	0.3046	0.12552	2.42662	0.01524	0.09614
TMEM243	246.731	0.30508	0.10355	2.94621	0.00322	0.03396
SLC8B1	489.23	0.30545	0.11349	2.69138	0.00712	0.05813
GGA2	1361.8	0.30555	0.08964	3.40853	0.00065	0.01209
DELE1	1036.48	0.30591	0.08091	3.78083	0.00016	0.00463
RNF13	450.209	0.30601	0.12383	2.4711	0.01347	0.08894
EIF2B4	615.99	0.30763	0.09154	3.36082	0.00078	0.01368
ERCC3	875.679	0.30765	0.10482	2.93509	0.00333	0.03477
CD81	8351.64	0.30773	0.12504	2.46094	0.01386	0.09069
MRRF	447.118	0.30921	0.11441	2.70262	0.00688	0.05665
NFATC2IP	834.255	0.30976	0.10468	2.95915	0.00308	0.03307
NRDC	1669.84	0.31091	0.09043	3.43801	0.00059	0.01116
TMEM175	326.549	0.31116	0.11887	2.61771	0.00885	0.06716
SIRT5	345.5	0.31152	0.10973	2.83904	0.00452	0.04258
TCHP	442.961	0.31156	0.1186	2.62693	0.00862	0.06595
MAP4K2	214.921	0.31169	0.12284	2.53724	0.01117	0.07814
PRMT2	1090.96	0.31173	0.09807	3.1788	0.00148	0.02039
TMCO4	318.668	0.31181	0.10371	3.00655	0.00264	0.02995
0.92	248.669	0.31293	0.11082	2.82383	0.00475	0.04378
FBXW5	871.204	0.31303	0.08082	3.87326	0.00011	0.00352
SUPT7L	883.159	0.3151	0.09427	3.34249	0.00083	0.01432
KCTD18	258.178	0.31564	0.12226	2.58173	0.00983	0.07196
ATXN2L	2178.66	0.31752	0.09891	3.21016	0.00133	0.01906
ZNF385D	372.561	0.3186	0.1164	2.73719	0.0062	0.05284
FASTK	930.08	0.31905	0.10354	3.08128	0.00206	0.02531
ACBD6	476.065	0.31949	0.10603	3.01329	0.00258	0.0295

AAAS	865.262	0.32008	0.1099	2.91245	0.00359	0.03656
C6orf120	501.136	0.32068	0.11045	2.9033	0.00369	0.03715
EIF5	2101.39	0.32077	0.1132	2.83354	0.0046	0.04295
ZBED5	792.614	0.32129	0.10798	2.97542	0.00293	0.03194
OXA1L	1453.64	0.32318	0.11791	2.74088	0.00613	0.05247
CPSF7	1851.97	0.32351	0.10285	3.14551	0.00166	0.0219
FKBP8	2144.37	0.32372	0.1316	2.45978	0.0139	0.09082
WDR45	854.985	0.32377	0.07463	4.33844	1.43E-05	0.00085
C14orf28	404.868	0.32482	0.11893	2.73116	0.00631	0.05332
GOPC	1111.06	0.32556	0.09922	3.28109	0.00103	0.01633
VPS36	884.481	0.32591	0.11911	2.73613	0.00622	0.05286
FBXO7	1336.98	0.32638	0.10324	3.16153	0.00157	0.02115
DYNC2LI1	646.081	0.328	0.12125	2.70505	0.00683	0.05637
SMAD1	656.838	0.32819	0.13257	2.47555	0.0133	0.08814
VPS29	588.507	0.32863	0.10952	3.00072	0.00269	0.03031
COG4	854.504	0.32866	0.1223	2.68728	0.0072	0.05851
ASAP3	706.097	0.32882	0.12874	2.55423	0.01064	0.07579
TUT1	410.686	0.32938	0.12057	2.73179	0.0063	0.05329
FBXW4	734.575	0.33063	0.0844	3.91732	8.95E-05	0.00308
DCAF17	370.67	0.33108	0.12342	2.68254	0.00731	0.05902
PARP12	435.605	0.33152	0.11475	2.88899	0.00386	0.0383
STX4	353.156	0.33195	0.13367	2.4833	0.01302	0.08677
KIN	234.621	0.33215	0.07954	4.1761	2.97E-05	0.00142
TMEM219	730.735	0.33241	0.12975	2.56197	0.01041	0.0748
CYP46A1	137.34	0.33321	0.1379	2.4163	0.01568	0.0978
LINC00667	587.827	0.33335	0.11241	2.96549	0.00302	0.03258
0.187	240.529	0.33396	0.11929	2.79963	0.00512	0.04593
EWSR1	4614.98	0.33411	0.13079	2.55459	0.01063	0.07574
MUTYH	336.358	0.33466	0.10609	3.1545	0.00161	0.02151
RNF146	627.411	0.33594	0.12198	2.75417	0.00588	0.05087
AADAT	305.807	0.33634	0.11892	2.82831	0.00468	0.04341
RCBTB2	438.944	0.33684	0.13	2.59097	0.00957	0.07071
CAMTA2	632.229	0.33725	0.11334	2.97561	0.00292	0.03194
CAPN2	2373.02	0.33735	0.10523	3.20571	0.00135	0.01926
ADPGK	786.881	0.33737	0.10753	3.13738	0.0017	0.02226
NFRKB	905.899	0.3375	0.1032	3.27023	0.00107	0.01675
MDC1	1052.63	0.33774	0.10753	3.1409	0.00168	0.02208
GABARAPL	600.763	0.3378	0.13913	2.42798	0.01518	0.09595
CALCOCO2	1303.68	0.33865	0.09771	3.46596	0.00053	0.01041
GGA3	860.421	0.33931	0.08963	3.78561	0.00015	0.00457
EPHX1	1357.82	0.33939	0.13202	2.57076	0.01015	0.07348
LINC00294	171.822	0.33973	0.13572	2.50307	0.01231	0.08361
ZNF343	235.891	0.34049	0.07932	4.29246	1.77E-05	0.00099
URGCP	781.36	0.34076	0.09626	3.54003	0.0004	0.00866
LRP10	2204.59	0.34106	0.12394	2.75178	0.00593	0.05117
COQ4	866.392	0.34269	0.10976	3.12229	0.00179	0.02307
HEXA	1642.15	0.34382	0.11865	2.89776	0.00376	0.03763
ABHD18	169.447	0.34415	0.12232	2.8136	0.0049	0.04469
ACAD8	476.354	0.34435	0.11101	3.10192	0.00192	0.0242
HDAC6	1330.97	0.34505	0.13798	2.50083	0.01239	0.08396
ZDHHC17	1111.3	0.34571	0.14213	2.4323	0.015	0.09504
FAHD2A	376.331	0.34608	0.09905	3.49397	0.00048	0.00968
METTL23	242.893	0.34631	0.1413	2.45088	0.01425	0.0922
GRIPAP1	1018.1	0.34683	0.09829	3.52868	0.00042	0.00886
MXD4	1837.63	0.34703	0.13661	2.54031	0.01108	0.07787
PTS	117.634	0.34782	0.11862	2.9323	0.00336	0.03505

MAPK3	728.026	0.34797	0.14258	2.44053	0.01467	0.09395
TOP3B	490.679	0.34837	0.13533	2.57417	0.01005	0.07304
BBS4	363.762	0.34847	0.07323	4.75869	1.95E-06	0.00022
EIF3M	1702.44	0.34848	0.12696	2.74472	0.00606	0.05204
GGA1	735.467	0.34899	0.1179	2.96018	0.00307	0.03302
ATP6V0B	427.049	0.34942	0.13356	2.61629	0.00889	0.06737
RANBP10	842.708	0.35029	0.1049	3.33936	0.00084	0.01439
DENND4B	783.45	0.35042	0.13046	2.68591	0.00723	0.05863
WDR13	882.27	0.35053	0.12042	2.91099	0.0036	0.0367
RFNG	520.439	0.35076	0.12508	2.80442	0.00504	0.04557
EIF2D	925.176	0.35149	0.12671	2.77406	0.00554	0.04871
GBA2	1070.8	0.35282	0.09784	3.60624	0.00031	0.00726
CRTC1	662.973	0.35329	0.14114	2.50312	0.01231	0.08361
ASB8	343.449	0.35349	0.1135	3.11436	0.00184	0.02356
ZCCHC8	498.789	0.35364	0.09397	3.76328	0.00017	0.00487
PEX11A	128.549	0.35383	0.12546	2.82037	0.0048	0.04409
FAM217B	302.348	0.35417	0.14435	2.45353	0.01415	0.09187
TTC31	572.627	0.35428	0.1464	2.41987	0.01553	0.09732
C11orf54	356.433	0.35448	0.14699	2.41151	0.01589	0.09852
TMEM218	289.068	0.35752	0.11353	3.1492	0.00164	0.02175
SLC23A2	1077.91	0.35775	0.12502	2.86151	0.00422	0.04078
0.57	438.322	0.35845	0.10926	3.2807	0.00104	0.01634
AGAP3	751.723	0.35917	0.14845	2.41954	0.01554	0.09735
POMT1	535.719	0.36004	0.13619	2.64359	0.0082	0.06393
ADGRL1	1073.24	0.3609	0.13565	2.66055	0.0078	0.06174
ZDHHC6	824.161	0.36134	0.11123	3.2487	0.00116	0.0175
LINC00339	158.826	0.36228	0.14542	2.49119	0.01273	0.08528
GSTK1	1532.18	0.36438	0.09907	3.67803	0.00024	0.00617
0.121	322.509	0.36482	0.13275	2.74824	0.00599	0.05157
TRMT10B	225.155	0.36622	0.11815	3.09966	0.00194	0.02427
APBA3	362.379	0.36692	0.13027	2.81652	0.00485	0.04441
GNAL	194.777	0.36744	0.13096	2.80574	0.00502	0.04546
RPUSD4	284.044	0.36758	0.13112	2.8034	0.00506	0.04559
ACIN1	4836.06	0.36807	0.09776	3.76494	0.00017	0.00485
DECR1	412.778	0.36837	0.14956	2.46299	0.01378	0.09029
SS18L1	442.055	0.36857	0.12676	2.9076	0.00364	0.03693
SEM1	679.068	0.36991	0.126	2.93587	0.00333	0.03477
PDCD6IP	3120.35	0.37006	0.10247	3.61158	0.0003	0.00717
IST1	1575.22	0.37229	0.10646	3.49696	0.00047	0.00962
NSMCE4A	530.076	0.37282	0.13048	2.85718	0.00427	0.04116
NUMBL	1073.54	0.37293	0.10799	3.45338	0.00055	0.01073
ERCC1	1071.59	0.37306	0.12135	3.07425	0.00211	0.0257
ACADVL	3407.73	0.37325	0.12277	3.0402	0.00236	0.02771
TRIM3	424.974	0.37347	0.11877	3.14442	0.00166	0.02191
SELENBP1	726.729	0.37615	0.14254	2.63878	0.00832	0.06447
NAT9	396.671	0.37624	0.12052	3.12186	0.0018	0.02307
CZIB	743.278	0.37628	0.12202	3.08387	0.00204	0.02514
MKNK1	654.862	0.37671	0.13049	2.8868	0.00389	0.03847
WDR11	1084.72	0.3778	0.10586	3.56875	0.00036	0.00794
AGK	565.806	0.37856	0.10325	3.66641	0.00025	0.00635
LIAS	157.841	0.37888	0.13937	2.71853	0.00656	0.0547
DDX39B	6617.6	0.37943	0.14343	2.64544	0.00816	0.06368
PABPN1	1949.07	0.37976	0.10291	3.69009	0.00022	0.00601
ZNF341	61.373	0.37992	0.1307	2.90687	0.00365	0.03699
DNPEP	729.104	0.38167	0.09596	3.97718	6.97E-05	0.0026
HBP1	1190.61	0.38247	0.156	2.45172	0.01422	0.09207

TMEM220	132.726	0.38271	0.13016	2.94023	0.00328	0.03447
MFF	947.403	0.3828	0.12882	2.97158	0.00296	0.03217
DDX42	2318.29	0.38321	0.13213	2.9003	0.00373	0.03739
DCTN2	1563.77	0.3842	0.13789	2.78624	0.00533	0.04729
HIKESHI	713.808	0.38462	0.10768	3.57192	0.00035	0.00792
RABL2A	390.14	0.38464	0.13236	2.90608	0.00366	0.03702
WRAP73	191.169	0.38524	0.14994	2.56933	0.01019	0.07366
MLLT10	669.509	0.38525	0.14664	2.6271	0.00861	0.06595
MARCHF6	2942.77	0.386	0.14431	2.67476	0.00748	0.05991
EXOSC8	1059.22	0.38622	0.12311	3.13721	0.00171	0.02226
MCUB	111.629	0.38836	0.16069	2.41687	0.01565	0.09772
VPS8	753.226	0.38887	0.11149	3.48798	0.00049	0.00981
FAM219B	853.369	0.38931	0.12588	3.09284	0.00198	0.0247
COMMD3	831.246	0.38953	0.13696	2.84415	0.00445	0.04214
OCIAD1	1424.67	0.39085	0.1453	2.68987	0.00715	0.05827
SH3GLB2	1323.75	0.39112	0.15233	2.5676	0.01024	0.07392
EIF4A2	6561.89	0.39179	0.11615	3.37322	0.00074	0.0133
ING4	589.337	0.39213	0.15992	2.45207	0.0142	0.09207
MTHFSD	337.147	0.39254	0.10662	3.68181	0.00023	0.0061
RUSF1	1758.92	0.39306	0.09566	4.10914	3.97E-05	0.00176
SEPTIN5	469.362	0.39315	0.15499	2.53665	0.01119	0.07824
USF2	1284.12	0.39363	0.11293	3.48561	0.00049	0.00986
BLVRB	352.1	0.39394	0.15761	2.49945	0.01244	0.08407
GTF2H5	231.332	0.39411	0.12079	3.26289	0.0011	0.01694
CYTH1	811.548	0.39436	0.13754	2.86721	0.00414	0.04029
0.82	63.0186	0.39489	0.15483	2.55053	0.01076	0.07633
SPIN3	409.714	0.39561	0.13774	2.87219	0.00408	0.03982
ZNF438	187.111	0.39634	0.15592	2.54185	0.01103	0.07755
LINC02035	158.835	0.39642	0.14717	2.69367	0.00707	0.05788
SPPL2B	1049.67	0.39647	0.12908	3.07146	0.00213	0.02584
ZC3H8	221.474	0.39797	0.15617	2.54831	0.01082	0.07657
SKIC8	372.061	0.3982	0.13214	3.01349	0.00258	0.0295
ZNHIT3	279.456	0.39919	0.12013	3.32295	0.00089	0.01492
FBRSL1	1067.35	0.40041	0.13968	2.86673	0.00415	0.04032
ATN1	4606.88	0.40234	0.13475	2.98573	0.00283	0.0313
SNHG11	170.227	0.40268	0.13617	2.95728	0.0031	0.0332
COX20	699.887	0.4028	0.16489	2.44284	0.01457	0.09363
LARP7	1219.23	0.40331	0.15928	2.53208	0.01134	0.07902
BRAT1	986.12	0.40376	0.0943	4.28185	1.85E-05	0.00102
IFTAP	168.07	0.40536	0.14062	2.88275	0.00394	0.03881
BCO2	68.6026	0.40548	0.16692	2.42918	0.01513	0.09571
RPL23A	2505.91	0.4056	0.15454	2.62455	0.00868	0.06623
ATP6AP2	1590.5	0.40639	0.15655	2.59596	0.00943	0.07004
PLEKHH3	495.206	0.40641	0.14627	2.77853	0.00546	0.04818
ABHD17A	1179.53	0.40693	0.09575	4.25007	2.14E-05	0.00114
LYRM9	220.002	0.40816	0.12071	3.38138	0.00072	0.01302
SPART	1116.43	0.40834	0.15209	2.68486	0.00726	0.05877
PSTPIP2	158.018	0.40859	0.16671	2.45086	0.01425	0.0922
ZNF251	549.068	0.40928	0.16718	2.44817	0.01436	0.0927
ANAPC16	823.578	0.41	0.1243	3.29843	0.00097	0.01572
NDUFAF7	231.879	0.41176	0.11491	3.58327	0.00034	0.0077
RXRB	630.049	0.41214	0.09907	4.16022	3.18E-05	0.0015
FGFR1OP2	991.154	0.41304	0.11034	3.74338	0.00018	0.00516
RNH1	1611.56	0.41307	0.1478	2.79472	0.00519	0.04645
GTF2IRD2B	937.984	0.41357	0.14295	2.8932	0.00381	0.038
0.183	260.511	0.41375	0.14955	2.76659	0.00566	0.04955

TM2D3	422.481	0.41414	0.13999	2.95837	0.00309	0.03313
TMEM143	155.87	0.41459	0.15606	2.6566	0.00789	0.06227
DRAM2	376.987	0.41461	0.15379	2.69587	0.00702	0.05766
BTN3A1	850.599	0.41467	0.114	3.6376	0.00028	0.00674
DHRS12	154.281	0.41475	0.14884	2.78647	0.00533	0.04728
MTFR1L	660.314	0.41491	0.12714	3.2635	0.0011	0.01693
PXN	1745.75	0.41514	0.1572	2.64084	0.00827	0.06427
TBC1D9B	2572.41	0.41557	0.10122	4.10581	4.03E-05	0.00177
INTS11	1413.26	0.41652	0.1474	2.82589	0.00471	0.0436
ZNF133	365.337	0.41822	0.12804	3.26631	0.00109	0.01679
PPIL3	352.166	0.42023	0.12811	3.2802	0.00104	0.01635
KRBOX4	200.903	0.42345	0.13304	3.18291	0.00146	0.02026
ABCB1	619.627	0.42428	0.14846	2.85796	0.00426	0.04111
TUBE1	787.499	0.42518	0.13405	3.17171	0.00152	0.02068
FCHSD1	414.073	0.42544	0.11629	3.65842	0.00025	0.00645
ZNF444	476.207	0.42563	0.12299	3.46064	0.00054	0.01055
DTX3	774.236	0.42575	0.13102	3.24961	0.00116	0.01747
CLCN6	532.058	0.4265	0.14922	2.8582	0.00426	0.04111
ZNF384	1153.08	0.42661	0.15251	2.7973	0.00515	0.04624
ZMIZ2	2090.45	0.42664	0.13768	3.09881	0.00194	0.02433
PRPF39	1119.31	0.42686	0.0925	4.61467	3.94E-06	0.00034
TTC17	1889.6	0.42748	0.10031	4.26168	2.03E-05	0.00109
EIF3E	11375.4	0.42802	0.16734	2.5578	0.01053	0.07537
MITD1	664.076	0.4285	0.07478	5.72994	1.00E-08	3.97E-06
HADH	1156.27	0.42855	0.16957	2.52725	0.0115	0.07963
NEK9	1649.59	0.42877	0.08569	5.00387	5.62E-07	9.40E-05
FPGT-TNNI	268.286	0.42975	0.13044	3.29465	0.00099	0.01589
ARHGEF9	576.785	0.43128	0.15282	2.82211	0.00477	0.04393
KANSL3	1487.71	0.43256	0.09779	4.42354	9.71E-06	0.00064
ZNF528-AS	152.453	0.4326	0.12476	3.46757	0.00053	0.01038
TVP23A	73.8386	0.43372	0.17011	2.54967	0.01078	0.07646
TRERF1	575.052	0.43417	0.13335	3.25587	0.00113	0.01722
ZFYVE19	274.811	0.43456	0.147	2.95619	0.00311	0.03328
DICER1-AS	116.342	0.43512	0.14286	3.04579	0.00232	0.02733
CLK2	1162.5	0.43724	0.1113	3.92835	8.55E-05	0.00299
0.8	239.107	0.43727	0.11906	3.67271	0.00024	0.00627
0.119	85.6507	0.43879	0.14998	2.92573	0.00344	0.03561
NME3	198.38	0.43954	0.1754	2.50597	0.01221	0.08319
AIMP1	670.295	0.43994	0.12727	3.45675	0.00055	0.01066
RGL2	1129.88	0.44004	0.1513	2.90847	0.00363	0.03684
SESN1	338.562	0.441	0.17677	2.49471	0.01261	0.08477
STOML1	135.739	0.44178	0.12163	3.63212	0.00028	0.00684
POLL	411.038	0.44397	0.12519	3.5464	0.00039	0.00851
FAR1	1879.48	0.44398	0.15195	2.92192	0.00348	0.03583
0.169	185.146	0.44416	0.17419	2.54983	0.01078	0.07645
DVL1	658.192	0.44455	0.13503	3.29233	0.00099	0.01596
ZSCAN30	525.948	0.44512	0.17777	2.50397	0.01228	0.08356
0.71	124.233	0.44517	0.14836	3.00066	0.00269	0.03031
CARS2	904.503	0.44628	0.12208	3.65561	0.00026	0.00646
TRMT1	527.237	0.44743	0.13761	3.25147	0.00115	0.0174
SCML1	792.036	0.44793	0.15301	2.92741	0.00342	0.03549
GRK3	383.848	0.44989	0.17397	2.58597	0.00971	0.07139
NXF1	2237.8	0.45002	0.12815	3.51164	0.00045	0.00925
LINC01139	495.854	0.45034	0.14874	3.02782	0.00246	0.02848
PJKK	79.7383	0.45152	0.14359	3.1444	0.00166	0.02191
TRIM52	405.477	0.45219	0.18253	2.4773	0.01324	0.08794

LZTR1	990.608	0.4523	0.12617	3.58488	0.00034	0.00767
LINC01001	313.274	0.45267	0.186	2.43375	0.01494	0.09475
MIB2	875.593	0.45411	0.16198	2.8034	0.00506	0.04559
MAP3K11	977.92	0.45443	0.12401	3.66439	0.00025	0.00638
EXD3	327.44	0.45449	0.1288	3.52873	0.00042	0.00886
0.236	453.481	0.45492	0.11003	4.13464	3.56E-05	0.00163
ICA1L	435.859	0.4552	0.15447	2.94684	0.00321	0.03396
ZNF76	536.918	0.45522	0.14044	3.24139	0.00119	0.01782
MARCHF8	671.196	0.4554	0.15298	2.97692	0.00291	0.03191
CD226	51.7828	0.45645	0.17848	2.55748	0.01054	0.07539
LPCAT4	447.678	0.45894	0.14235	3.22399	0.00126	0.01845
DZIP1L	202.472	0.45903	0.1737	2.64267	0.00823	0.06402
MFSD10	644.994	0.45904	0.13393	3.42744	0.00061	0.01154
SIVA1	337.123	0.45937	0.16852	2.72595	0.00641	0.05387
PEX6	303.764	0.45956	0.13272	3.46256	0.00054	0.0105
DDT	518.354	0.46017	0.1551	2.96701	0.00301	0.03247
0.219	119.728	0.46055	0.17725	2.59839	0.00937	0.06967
UPF3A	1152.29	0.46112	0.14492	3.18189	0.00146	0.02029
SIN3B	2079.72	0.4612	0.17566	2.62559	0.00865	0.06608
CIZ1	1906.26	0.46132	0.14099	3.272	0.00107	0.01671
COQ8B	625.966	0.46205	0.12247	3.77289	0.00016	0.00474
SNX21	587.311	0.46301	0.14642	3.16216	0.00157	0.02115
TIAL1	1463.25	0.46313	0.10704	4.32655	1.51E-05	0.00087
0.133	122.778	0.46382	0.14581	3.18094	0.00147	0.02031
CYP2R1	119.637	0.46423	0.14759	3.14553	0.00166	0.0219
DPH7	435.683	0.46464	0.12741	3.64688	0.00027	0.00658
0.95	47.646	0.4652	0.16515	2.81677	0.00485	0.0444
TRABD	600.418	0.46569	0.13893	3.35203	0.0008	0.01395
C5orf63	70.514	0.46683	0.17775	2.62638	0.00863	0.066
AP4B1	353.678	0.46763	0.12991	3.59972	0.00032	0.0074
YIPF4	875.053	0.46852	0.14101	3.32246	0.00089	0.01492
LETMD1	698.282	0.46864	0.16519	2.83693	0.00455	0.04277
METAP1D	250.501	0.46923	0.15923	2.94692	0.00321	0.03396
STIMATE-M	136.337	0.46931	0.16453	2.85237	0.00434	0.04149
SMIM11	194.802	0.46995	0.17151	2.7401	0.00614	0.05257
N6AMT1	385.912	0.47061	0.19532	2.40944	0.01598	0.09895
ITGB1BP1	617.125	0.47064	0.14499	3.24612	0.00117	0.01758
STAT6	3151.53	0.47091	0.12895	3.65195	0.00026	0.0065
0.144	385.584	0.47152	0.1827	2.58089	0.00985	0.0721
PTPN18	920.447	0.47495	0.13797	3.4423	0.00058	0.01102
SELENOF	1646.17	0.47562	0.19703	2.41392	0.01578	0.0983
TRMT61A	293.322	0.47584	0.18332	2.59571	0.00944	0.07004
MRPL46	201.052	0.47632	0.1381	3.44924	0.00056	0.01083
ERMARD	241.893	0.47664	0.14176	3.36237	0.00077	0.01363
ALOX12-AS	87.1917	0.47741	0.19116	2.49745	0.01251	0.08443
MTSS1	316.118	0.4775	0.1976	2.41652	0.01567	0.09779
PHKA2	746.574	0.47803	0.14574	3.27998	0.00104	0.01635
ANGEL1	677.111	0.47873	0.09858	4.85619	1.20E-06	0.00016
PCMTD2	1001.19	0.48041	0.17259	2.7835	0.00538	0.04761
NFATC4	1700.39	0.48048	0.14081	3.41229	0.00064	0.01199
TAOK3	553.734	0.48074	0.16851	2.85283	0.00433	0.04147
DPP7	838.81	0.48187	0.18699	2.57698	0.00997	0.07266
CCDC191	293.802	0.48196	0.1243	3.87746	0.00011	0.00348
TAPT1	359.797	0.48252	0.11207	4.30567	1.66E-05	0.00094
PRR14	581.825	0.48332	0.13853	3.48903	0.00048	0.00978
STK36	939.372	0.48558	0.18175	2.67175	0.00755	0.0603

SLC12A9	457.895	0.48717	0.16521	2.94881	0.00319	0.03382
LRCH4	659.045	0.4872	0.12265	3.97237	7.12E-05	0.00263
NSUN7	158.249	0.48874	0.1743	2.80402	0.00505	0.04559
NPHP1	277.921	0.48936	0.13478	3.63088	0.00028	0.00684
SEPTIN7-D	44.3979	0.48936	0.16482	2.969	0.00299	0.03238
POLG2	218.72	0.48945	0.15965	3.06584	0.00217	0.02617
TBRG1	653.187	0.48977	0.12554	3.90123	9.57E-05	0.00323
TLR2	132.469	0.49069	0.19954	2.45912	0.01393	0.09094
HOXD10	660.348	0.49094	0.17517	2.80261	0.00507	0.04566
PDK2	461.408	0.49145	0.17447	2.81679	0.00485	0.0444
RTRAF	1064.2	0.49178	0.19653	2.50235	0.01234	0.08367
EXOSC10	1188.21	0.49196	0.10616	4.63424	3.58E-06	0.00032
TMEM42	178.39	0.49206	0.14834	3.31704	0.00091	0.01511
AKNA	2203.97	0.49236	0.14978	3.28723	0.00101	0.01613
BCAP29	700.16	0.49255	0.16014	3.07572	0.0021	0.0256
SAFB2	1737.39	0.49318	0.11965	4.12194	3.76E-05	0.00169
ZNF302	610.952	0.4936	0.14623	3.3755	0.00074	0.01323
SPSB3	475.627	0.49367	0.18036	2.73714	0.0062	0.05284
0.1	239.366	0.49374	0.11801	4.184	2.86E-05	0.00139
RWDD2A	154.755	0.49402	0.13675	3.61249	0.0003	0.00715
FBXL6	171.174	0.49458	0.13762	3.59373	0.00033	0.00751
MIIP	206.67	0.49548	0.19992	2.47837	0.0132	0.08777
POMGNT1	1287.6	0.49665	0.14339	3.46355	0.00053	0.0105
MTERF2	386.474	0.4971	0.17432	2.85167	0.00435	0.04155
CCDC149	372.918	0.49822	0.13083	3.80803	0.00014	0.0043
INTS6-AS1	64.7671	0.49958	0.20465	2.44111	0.01464	0.09384
MSS51	344.382	0.50042	0.10354	4.83322	1.34E-06	0.00017
HFE	126.855	0.50109	0.17193	2.91448	0.00356	0.03642
RBCK1	1180.81	0.50123	0.08745	5.73159	9.95E-09	3.97E-06
NUMB	1512.15	0.50127	0.10578	4.73894	2.15E-06	0.00023
HDAC7	2090.78	0.5014	0.13178	3.80486	0.00014	0.00434
PRPF40B	423.081	0.50144	0.1673	2.99732	0.00272	0.03059
GRB10	577.894	0.50184	0.16848	2.97864	0.0029	0.03183
JKAMP	504.698	0.50273	0.1489	3.37622	0.00073	0.01321
TESK1	685.535	0.50336	0.18418	2.73304	0.00628	0.0532
PHF1	771.318	0.50354	0.18716	2.69041	0.00714	0.05827
SIRT2	716.509	0.50411	0.13783	3.65757	0.00025	0.00645
PSMA3	481.944	0.50444	0.17588	2.86807	0.00413	0.04022
0.97	108.88	0.50552	0.19916	2.53828	0.01114	0.07805
CEP95	730.436	0.50636	0.15301	3.30922	0.00094	0.0154
MOB2	334.596	0.50731	0.16951	2.99269	0.00277	0.03089
RAP1A	685.069	0.50856	0.20341	2.5001	0.01242	0.08401
GOLGA1	504.55	0.50893	0.16072	3.16658	0.00154	0.02096
KCTD6	147.755	0.509	0.16127	3.15614	0.0016	0.02141
ZFP2	65.6008	0.51007	0.17981	2.8367	0.00456	0.04277
LRCH1	467.394	0.51044	0.19994	2.55303	0.01068	0.07592
HOXB3	1293.83	0.51113	0.19423	2.63153	0.0085	0.06551
SLC25A12	266.006	0.51122	0.14833	3.44649	0.00057	0.01091
ZFYVE28	289.112	0.51309	0.16595	3.09191	0.00199	0.02471
STRADB	223.569	0.51363	0.16749	3.06671	0.00216	0.02612
RBPMS	2058.59	0.5141	0.16119	3.18942	0.00143	0.01993
ARHGAP27	422.189	0.51426	0.15809	3.25289	0.00114	0.01737
PRR5	234.92	0.51489	0.20666	2.49151	0.01272	0.08527
CENPT	982.79	0.51553	0.12037	4.28305	1.84E-05	0.00102
LTA4H	1134	0.51559	0.16745	3.07913	0.00208	0.0254
LINC02193	65.5119	0.51679	0.19386	2.66573	0.00768	0.06109

EMX2OS	2799.06	0.51681	0.1456	3.54963	0.00039	0.00844
SLC39A13	653.59	0.5181	0.14625	3.54255	0.0004	0.00863
0.56	220.868	0.51816	0.18141	2.85629	0.00429	0.0412
UBE2L6	566.667	0.52023	0.20055	2.59404	0.00949	0.07029
KANTR	281.903	0.52035	0.19224	2.70684	0.00679	0.05614
METAP2	1161.09	0.52172	0.1715	3.04213	0.00235	0.02758
SNHG1	673.571	0.52223	0.21142	2.47007	0.01351	0.08911
TMEM50B	583.654	0.52346	0.15016	3.48612	0.00049	0.00986
0.18	35.3979	0.52485	0.21691	2.41968	0.01553	0.09734
SLC25A36	3225.87	0.52494	0.18545	2.83059	0.00465	0.04319
SLC15A3	276.882	0.52528	0.18383	2.85752	0.00427	0.04114
PRKAB2	470.138	0.52568	0.18653	2.81823	0.00483	0.04429
EIF3F	3469.14	0.52645	0.19415	2.71164	0.0067	0.05552
MRNIP	697.284	0.52659	0.19802	2.65929	0.00783	0.06188
SERINC1	2900.11	0.52706	0.19598	2.68937	0.00716	0.05829
SLC25A37	1228.38	0.52749	0.17754	2.9711	0.00297	0.0322
LRRFIP2	1045.35	0.52762	0.18819	2.8037	0.00505	0.04559
LAS1L	857.844	0.52925	0.11134	4.75334	2.00E-06	0.00022
ANKZF1	787.075	0.53014	0.18306	2.8959	0.00378	0.0378
ESD	1552.56	0.53017	0.14201	3.73326	0.00019	0.00528
KLHDC2	711.259	0.5303	0.13114	4.04371	5.26E-05	0.0021
EML3	555.068	0.53044	0.14994	3.53773	0.0004	0.0087
0.182	134.394	0.53354	0.17638	3.02488	0.00249	0.02869
RRH	124.972	0.53437	0.22211	2.40589	0.01613	0.09952
SEPTIN4	153.543	0.53459	0.20225	2.64325	0.00821	0.06394
ZNF471	334.019	0.53483	0.17237	3.10275	0.00192	0.02414
ATP6V1D	447.176	0.53524	0.1909	2.80373	0.00505	0.04559
LTBR	1668.38	0.53551	0.17953	2.98292	0.00286	0.03152
INTS3	3078.96	0.53637	0.20453	2.62253	0.00873	0.06653
RPL19	10725.9	0.53684	0.22309	2.40645	0.01611	0.09943
BTN3A3	779.017	0.53744	0.10323	5.20637	1.93E-07	4.21E-05
PPP1R12C	1707.54	0.53776	0.20828	2.5819	0.00983	0.07196
APBB1	454.629	0.53788	0.19162	2.80701	0.005	0.04535
MIR302CHC	229	0.53791	0.16991	3.16579	0.00155	0.02099
SIGIRR	193.75	0.53889	0.18296	2.94532	0.00323	0.03401
TUBGCP6	1107.26	0.54011	0.21924	2.46352	0.01376	0.0902
0.223	68.0216	0.54065	0.21059	2.56728	0.01025	0.07392
BTBD19	191.529	0.54071	0.20288	2.6652	0.00769	0.06114
LDB1	3205.87	0.54101	0.16631	3.253	0.00114	0.01737
MITF	1649.28	0.54176	0.21214	2.55375	0.01066	0.07584
WDR19	694.853	0.54324	0.16729	3.2472	0.00117	0.01752
RPS19BP1	490.102	0.54341	0.17765	3.05899	0.00222	0.02651
DNM3OS	987.213	0.54389	0.16825	3.23266	0.00123	0.01816
OGFR	742.362	0.54486	0.12346	4.41324	1.02E-05	0.00066
PHF21A	1089.15	0.54722	0.11652	4.69622	2.65E-06	0.00026
TMEM59	2053.15	0.54812	0.17171	3.19213	0.00141	0.01983
ROBO4	574.879	0.54899	0.21432	2.56155	0.01042	0.07483
0.175	51.7372	0.55003	0.20588	2.67156	0.00755	0.06031
DNAJC19	353.02	0.55022	0.12896	4.26646	1.99E-05	0.00108
GSDMD	651.913	0.55087	0.16825	3.27408	0.00106	0.01665
PARP3	180.814	0.55115	0.1731	3.18403	0.00145	0.02019
LTBP3	3509.74	0.5516	0.1616	3.41339	0.00064	0.01199
NHERF2	1325.1	0.55161	0.18334	3.00868	0.00262	0.02981
VAMP2	837.34	0.55173	0.1817	3.03649	0.00239	0.02788
OSGEP	530.55	0.55192	0.12453	4.43222	9.33E-06	0.00062
B9D1	471.07	0.55196	0.11953	4.61784	3.88E-06	0.00034

NPDC1	1642.52	0.55204	0.18536	2.97817	0.0029	0.03185
FLYWCH1	619.465	0.55308	0.21507	2.57165	0.01012	0.07336
LPCAT2	893.929	0.55323	0.15692	3.52559	0.00042	0.00894
WDR17	258.462	0.55327	0.19113	2.89476	0.00379	0.03787
RAD51-AS1	322.573	0.55353	0.2188	2.52979	0.01141	0.07933
AKAP17A.1	502.742	0.55444	0.10771	5.14768	2.64E-07	5.49E-05
KITLG	361.467	0.5552	0.2228	2.4919	0.01271	0.08524
EFHC1	861.494	0.55541	0.18254	3.0427	0.00234	0.02754
ITGB1P1	249.281	0.55549	0.18155	3.05976	0.00222	0.02648
PARP10	1202.88	0.55593	0.12319	4.51278	6.40E-06	0.00048
AKAP17A	501.3	0.55649	0.10782	5.16109	2.46E-07	5.22E-05
SRP14-DT	78.1792	0.55804	0.18743	2.97728	0.00291	0.03189
ORMDL1	684.054	0.55813	0.11484	4.85986	1.17E-06	0.00016
TJAP1	729.469	0.55819	0.12353	4.51851	6.23E-06	0.00047
0.108	140.721	0.55869	0.22445	2.48922	0.0128	0.08554
TRPC1	231.266	0.55914	0.1912	2.92442	0.00345	0.03566
CDK11A	660.499	0.55985	0.2177	2.57162	0.01012	0.07336
MTURN	661.977	0.56013	0.2089	2.68133	0.00733	0.05915
VEGFB	609.262	0.56046	0.19119	2.93135	0.00337	0.03512
SRSF6	4594.65	0.56048	0.1324	4.23333	2.30E-05	0.00119
0.68	45.323	0.56075	0.21255	2.63818	0.00834	0.06453
BCAM	1877.32	0.56142	0.17496	3.2088	0.00133	0.01912
ADAM15	961.746	0.56154	0.19719	2.8477	0.0044	0.04192
RNF215	372.219	0.56233	0.12095	4.64911	3.33E-06	0.00031
RPL13	11564.8	0.56273	0.22964	2.45047	0.01427	0.09227
BORCS7	339.403	0.56314	0.20045	2.80939	0.00496	0.04514
USP40	1659.52	0.56337	0.13474	4.18113	2.90E-05	0.00141
SHFL	650.219	0.56339	0.12405	4.54161	5.58E-06	0.00044
TRAF1	269.165	0.5635	0.20402	2.76204	0.00574	0.04994
PBX1	5136.59	0.56449	0.21863	2.58195	0.00982	0.07196
EMX2	1485.74	0.56623	0.23031	2.45857	0.01395	0.09104
ASAH1	1736.46	0.56633	0.14633	3.87014	0.00011	0.00355
0.134	125.719	0.56693	0.19249	2.94521	0.00323	0.03401
CAPRIN2	624.342	0.5672	0.18051	3.14212	0.00168	0.02202
FHIP2B	921.604	0.56744	0.13823	4.10503	4.04E-05	0.00177
SUN1	2421.15	0.56774	0.17049	3.33015	0.00087	0.01468
0.146	946.807	0.56782	0.1936	2.9329	0.00336	0.035
TPCN1	1070.66	0.56822	0.23221	2.44704	0.0144	0.0929
METTL17	631.538	0.56842	0.11982	4.74381	2.10E-06	0.00023
ZSCAN18	1437.59	0.56867	0.15449	3.68108	0.00023	0.00611
RRAGB	233.542	0.56881	0.16746	3.39672	0.00068	0.01245
ZNF177	186.024	0.56913	0.21169	2.68847	0.00718	0.05835
KLHL41	39.2742	0.56913	0.20709	2.74822	0.00599	0.05157
SELENOO	340.262	0.5707	0.15767	3.61956	0.0003	0.00705
0.224	171.988	0.57082	0.19021	3.00106	0.00269	0.03031
GLS	1588.58	0.57093	0.20083	2.8429	0.00447	0.04221
APH1B	217.004	0.57136	0.15451	3.69801	0.00022	0.0059
HYI	297.731	0.57208	0.21698	2.63649	0.00838	0.06477
GOLGA8H	90.9896	0.57221	0.17274	3.31258	0.00092	0.0153
CDK3	93.212	0.57321	0.2164	2.64883	0.00808	0.06329
0.15	93.0332	0.57399	0.23334	2.45987	0.0139	0.09082
0.188	92.5279	0.57452	0.156	3.68271	0.00023	0.00609
0.143	38.0897	0.57755	0.21285	2.71345	0.00666	0.05527
0.211	88.7511	0.57797	0.19221	3.00694	0.00264	0.02993
0.5	224.847	0.57801	0.17688	3.26786	0.00108	0.01675
CRYGS	312.926	0.57885	0.11624	4.97958	6.37E-07	0.0001

TARBP1	712.2	0.57894	0.19516	2.96642	0.00301	0.03251
RBM39	5223.89	0.57926	0.12338	4.69508	2.67E-06	0.00026
PLGLB1	81.3089	0.57999	0.23039	2.51741	0.01182	0.08127
MLKL	190.862	0.58054	0.19022	3.05192	0.00227	0.027
DGKE	411.507	0.58183	0.19551	2.97604	0.00292	0.03194
MATCAP1	778.434	0.58377	0.18496	3.15625	0.0016	0.02141
REX1BD	322.149	0.58475	0.22217	2.63205	0.00849	0.06547
PIDD1	316.88	0.58526	0.20967	2.79139	0.00525	0.04678
ANKRD10	1216.74	0.58555	0.15592	3.75552	0.00017	0.00497
AGAP4	672.881	0.5856	0.1324	4.42307	9.73E-06	0.00064
LINC00899	158.235	0.5866	0.1968	2.98063	0.00288	0.03168
MBD6	1496.76	0.58667	0.19147	3.06398	0.00218	0.02628
ABHD14B	536.445	0.58767	0.18765	3.13182	0.00174	0.02254
LINC00265	267.476	0.5888	0.15939	3.69406	0.00022	0.00595
SLC25A28	488.586	0.58886	0.12493	4.71341	2.44E-06	0.00025
SKIDA1	43.4805	0.59021	0.21202	2.78377	0.00537	0.04759
FGF7	561.845	0.59051	0.21279	2.77515	0.00552	0.04861
OXLD1	97.2683	0.59073	0.23508	2.51294	0.01197	0.08188
DMTF1	1773.22	0.59134	0.19514	3.03037	0.00244	0.02829
TMEM120A	208.417	0.59181	0.22659	2.61178	0.00901	0.0679
SCN3A	250.533	0.59193	0.19055	3.10638	0.00189	0.02393
CTNNA3	225.474	0.59438	0.22574	2.63304	0.00846	0.0653
TMX1P1	45.5064	0.59445	0.22682	2.62079	0.00877	0.06677
GSDMB	258.464	0.59475	0.22118	2.68896	0.00717	0.05829
TOM1L2	1064.11	0.59581	0.13902	4.28592	1.82E-05	0.00101
KIZ	894.072	0.59599	0.21811	2.73256	0.00628	0.05323
0.124	255.134	0.59604	0.23268	2.56157	0.01042	0.07483
GOLGA6L9	528.431	0.59608	0.19447	3.06521	0.00218	0.02621
MCTS1	630.792	0.5965	0.15057	3.96151	7.45E-05	0.00272
CAMLG	518.173	0.59783	0.19956	2.99579	0.00274	0.03068
METTL3	722.159	0.59835	0.13814	4.33146	1.48E-05	0.00086
MYO18A	1304.3	0.59844	0.17992	3.32621	0.00088	0.01482
CDK10	924.37	0.59869	0.12749	4.69589	2.65E-06	0.00026
SLC35A1	244.339	0.59874	0.18916	3.16518	0.00155	0.021
CASP1	105.304	0.59928	0.17507	3.42299	0.00062	0.01165
KIAA0319L	1595.35	0.60005	0.17837	3.36402	0.00077	0.01357
FILIP1	550.627	0.60074	0.22844	2.62975	0.00854	0.06573
RNF217-AS	29.8592	0.6008	0.24132	2.48961	0.01279	0.08552
MMP25-AS1	239.542	0.60115	0.16831	3.57164	0.00035	0.00792
0.155	104.934	0.60199	0.17764	3.38877	0.0007	0.01275
ZNF333	483.337	0.60242	0.15653	3.84849	0.00012	0.00379
0.142	49.6292	0.60245	0.21032	2.86447	0.00418	0.0405
AP1S2	687.445	0.60259	0.18985	3.17409	0.0015	0.02061
0.233	212.917	0.60281	0.17464	3.45168	0.00056	0.01077
PPP4R2P4	94.1845	0.60286	0.23253	2.59258	0.00953	0.0705
MGST3	602.458	0.60327	0.15284	3.94708	7.91E-05	0.00281
NPIPB15	436.107	0.60357	0.2288	2.63799	0.00834	0.06453
ZNF266	625.455	0.60429	0.19199	3.14744	0.00165	0.02184
MMP17	105.653	0.60525	0.23241	2.6042	0.00921	0.06886
0.67	53.8171	0.60562	0.18231	3.32189	0.00089	0.01494
ATG14	484.305	0.60571	0.11313	5.35418	8.59E-08	2.40E-05
CASP4LP	269.453	0.606	0.19506	3.1067	0.00189	0.02391
CROCC	818.007	0.60709	0.12633	4.8056	1.54E-06	0.00019
NDFIP1	1841.55	0.60782	0.20591	2.95188	0.00316	0.03357
KCNAB3	253.698	0.60907	0.21359	2.85156	0.00435	0.04155
RAB7B	167.78	0.61025	0.2378	2.56625	0.01028	0.0741

PRCP	1919.16	0.6109	0.19997	3.05489	0.00225	0.0268
PITPNM2	400.174	0.61121	0.17907	3.41317	0.00064	0.01199
FAM13C	193.48	0.61367	0.2202	2.78684	0.00532	0.04727
SH2D3C	316.928	0.61377	0.2271	2.70261	0.00688	0.05665
TMEM276	101.322	0.61406	0.23137	2.654	0.00795	0.0626
HOOK2	643.904	0.61452	0.18716	3.28335	0.00103	0.01626
PPP1CB-DT	41.5892	0.61466	0.2148	2.86151	0.00422	0.04078
0.51	37.5436	0.61481	0.20982	2.93025	0.00339	0.03522
0.41	121.315	0.61493	0.15653	3.92854	8.55E-05	0.00299
ZC3H11A	3502.91	0.61628	0.21315	2.89132	0.00384	0.03811
CDK5RAP3	1746.2	0.61692	0.21332	2.89202	0.00383	0.0381
GPCPD1	1240.3	0.61749	0.25183	2.45199	0.01421	0.09207
HNMT	1210.94	0.61805	0.18137	3.40764	0.00066	0.01209
EPB41L4A-/	339.65	0.61826	0.19768	3.12751	0.00176	0.02279
SLC25A23	638.901	0.6184	0.2387	2.59076	0.00958	0.07071
IRF3	729.358	0.61927	0.15038	4.1181	3.82E-05	0.0017
TIA1	2344.19	0.61976	0.15355	4.03625	5.43E-05	0.00213
ARHGEF3	944.355	0.62117	0.21574	2.87923	0.00399	0.03919
FES	230.72	0.62182	0.25495	2.439	0.01473	0.09411
INTS6L	437.554	0.6225	0.17301	3.59802	0.00032	0.00742
AMZ2P1	176.554	0.62456	0.15037	4.15348	3.27E-05	0.00153
UBQLNL	50.2172	0.62468	0.17829	3.50373	0.00046	0.00943
NBPF11	582.859	0.62558	0.19078	3.27906	0.00104	0.01638
KIAA1755	382.187	0.62626	0.23715	2.64072	0.00827	0.06427
NKTR	3876.46	0.62672	0.24478	2.5603	0.01046	0.07499
ISCU	958.852	0.62683	0.19564	3.20397	0.00136	0.01933
SREK1	4130.94	0.62717	0.18689	3.35586	0.00079	0.01384
TEK	551.02	0.62815	0.24847	2.52813	0.01147	0.07958
CPT1C	166.919	0.62848	0.22161	2.83602	0.00457	0.04282
RUNDC3B	83.553	0.62862	0.17522	3.58759	0.00033	0.00764
0.273	372.575	0.6297	0.24443	2.57622	0.00999	0.07276
TBKBP1	271.637	0.63067	0.20056	3.1445	0.00166	0.02191
ATP5PO	887.097	0.63203	0.21724	2.90933	0.00362	0.03682
EXTL3-AS1	56.5151	0.63246	0.25308	2.49911	0.01245	0.08412
RARRES2	1087.61	0.63261	0.22966	2.75455	0.00588	0.05083
TMEM30A-L	188.526	0.63355	0.24989	2.53526	0.01124	0.07852
SAMD9L	360.022	0.63398	0.26193	2.42044	0.0155	0.09723
ZFAND2B	200.148	0.63513	0.16839	3.77188	0.00016	0.00475
MTERF4	691.371	0.63542	0.16238	3.91315	9.11E-05	0.00312
CD274	73.9504	0.63703	0.2609	2.44169	0.01462	0.0938
CHKB	485.082	0.63892	0.17467	3.65795	0.00025	0.00645
GALT	259.597	0.63917	0.20321	3.14546	0.00166	0.0219
0.128	103.685	0.6396	0.15105	4.23438	2.29E-05	0.00119
OTUD3	404.308	0.64155	0.22772	2.81728	0.00484	0.04437
NEK3	235.631	0.64202	0.1247	5.14869	2.62E-07	5.49E-05
PLTP	1713.58	0.64404	0.21869	2.94499	0.00323	0.03402
HMGN3	564.826	0.64539	0.22639	2.85077	0.00436	0.04163
PIGL	282.796	0.64608	0.17121	3.7735	0.00016	0.00474
0.99	71.0889	0.64631	0.18938	3.41273	0.00064	0.01199
0.7	130.535	0.64671	0.26705	2.42166	0.01545	0.09693
PARP6	1101.04	0.64706	0.14939	4.3314	1.48E-05	0.00086
TCIRG1	1184.33	0.64716	0.179	3.61534	0.0003	0.00713
CCS	257.186	0.64727	0.16898	3.83048	0.00013	0.00402
0.84	29.7674	0.64778	0.26411	2.45272	0.01418	0.09196
GTF2IRD2	420.718	0.64854	0.21213	3.05734	0.00223	0.02664
ZNF316	780.325	0.64975	0.17205	3.77656	0.00016	0.00469

SLC46A3	149.782	0.65067	0.23821	2.73154	0.0063	0.05331
KHDC4	1005.85	0.6513	0.13414	4.85539	1.20E-06	0.00016
0.193	47.6235	0.65185	0.22704	2.87112	0.00409	0.03991
UBE2G2	1607.5	0.6522	0.15019	4.34248	1.41E-05	0.00084
GAS6	2104.16	0.65225	0.20296	3.21371	0.00131	0.01889
EHBP1-AS1	290.266	0.65237	0.1438	4.53663	5.72E-06	0.00044
PHC1	1720.27	0.65276	0.13356	4.88758	1.02E-06	0.00014
NPEPL1	606.327	0.65338	0.17804	3.6698	0.00024	0.00631
AP3B2	104.984	0.65389	0.17366	3.76543	0.00017	0.00485
ATXN7L2	188.425	0.65404	0.19504	3.35345	0.0008	0.0139
SP110	293.949	0.65451	0.195	3.35643	0.00079	0.01384
CCDC69	461.382	0.65526	0.25707	2.54899	0.0108	0.07647
NPIPA1	1248.55	0.65662	0.24459	2.68455	0.00726	0.0588
ZNF467	232.149	0.65762	0.23665	2.77883	0.00546	0.04818
0.52	38.1596	0.65785	0.25435	2.58641	0.0097	0.07136
0.209	484.765	0.65868	0.20282	3.24765	0.00116	0.01752
RBM20	144.08	0.65998	0.25638	2.57421	0.01005	0.07304
ZNF514	633.313	0.66129	0.22091	2.99352	0.00276	0.03083
RPS24	6718.85	0.66161	0.22922	2.88639	0.0039	0.03848
NUP42	373.457	0.66167	0.18095	3.65655	0.00026	0.00645
MAP3K7CL	107.46	0.66169	0.19217	3.44334	0.00057	0.011
NDUFB7	737.419	0.66208	0.27411	2.41544	0.01572	0.09795
CREBZF	1616.42	0.66303	0.14523	4.56539	4.99E-06	0.0004
ZNF10	316.435	0.66508	0.20956	3.17378	0.0015	0.02061
GNRH1	63.4083	0.66512	0.20239	3.28633	0.00102	0.01614
HLA-F	472.203	0.66529	0.1942	3.42585	0.00061	0.01156
DCAF8	2094.96	0.66568	0.12964	5.13478	2.82E-07	5.82E-05
FAM98C	103.846	0.66633	0.17487	3.81042	0.00014	0.00427
FBXO9	734.396	0.66658	0.13704	4.86398	1.15E-06	0.00015
BOK	1213.75	0.66675	0.20055	3.32455	0.00089	0.01488
ZNF224	427.125	0.6671	0.21264	3.13721	0.00171	0.02226
SCN9A	224.062	0.66942	0.19551	3.42401	0.00062	0.01162
0.107	24.791	0.67015	0.25149	2.66477	0.0077	0.06114
PPOX	195.568	0.67056	0.19074	3.5156	0.00044	0.00915
REXO2	538.215	0.67061	0.18364	3.65177	0.00026	0.0065
PCED1B	116.051	0.67162	0.27132	2.47538	0.01331	0.08815
IL17RC	311.568	0.67225	0.15977	4.20759	2.58E-05	0.0013
SRRM1	3120.47	0.67301	0.20332	3.31017	0.00093	0.01538
DUS4L-BCA	277.221	0.67324	0.1976	3.40714	0.00066	0.01209
LMBR1L	435.912	0.67351	0.22649	2.97365	0.00294	0.03204
0.35	39.2137	0.67462	0.2466	2.73566	0.00623	0.05291
DPH1	493.234	0.67486	0.1293	5.21924	1.80E-07	3.99E-05
TRANK1	1945.04	0.67535	0.26247	2.57302	0.01008	0.07317
NPTN	1393.28	0.6761	0.2272	2.97584	0.00292	0.03194
NIPAL2	720.445	0.67625	0.17853	3.78792	0.00015	0.00455
NBPF8	546.117	0.67922	0.19227	3.53266	0.00041	0.00879
0.14	1125.78	0.67958	0.23502	2.8916	0.00383	0.03811
TMSB4X	11903.1	0.67982	0.25575	2.6581	0.00786	0.06204
SEMA5B	110.94	0.68012	0.26742	2.54325	0.01098	0.07741
MAP3K12	1191.62	0.68215	0.22144	3.08047	0.00207	0.02535
SDR39U1	506.471	0.68308	0.14047	4.86287	1.16E-06	0.00015
AFDN-DT	117.066	0.68428	0.25648	2.66799	0.00763	0.06076
NIPSNAP3E	162.84	0.68444	0.16166	4.23384	2.30E-05	0.00119
JAG2	196.019	0.6848	0.26328	2.60103	0.00929	0.06937
ADARB1	521.277	0.68482	0.27716	2.47082	0.01348	0.08898
L3HYPDH	169.105	0.68498	0.15212	4.50292	6.70E-06	0.00049

NOTCH4	555.854	0.68504	0.23175	2.95595	0.00312	0.03329
KANK2	6193.94	0.68542	0.19116	3.58558	0.00034	0.00766
FAM162A	317.387	0.68672	0.21023	3.26653	0.00109	0.01679
MAPK10	1119.58	0.6878	0.26471	2.59835	0.00937	0.06967
MRPL55	221.308	0.68794	0.16535	4.1606	3.17E-05	0.0015
FMNL1-DT	123.249	0.69108	0.18739	3.68802	0.00023	0.00605
SNRNP70	4651.06	0.69126	0.18099	3.81935	0.00013	0.00416
F8	204.571	0.69147	0.27717	2.4947	0.01261	0.08477
GEMIN8	335.343	0.69206	0.19347	3.5772	0.00035	0.00782
TTC14	1743.83	0.69233	0.16938	4.08743	4.36E-05	0.00187
ZNF688	102.029	0.69281	0.20056	3.45438	0.00055	0.01073
SHC2	749.753	0.69296	0.19427	3.56695	0.00036	0.00797
EXOC3L2	189.079	0.693	0.27489	2.52098	0.0117	0.08077
AGAP5	248.491	0.6934	0.1908	3.6341	0.00028	0.00681
INO80E	778.06	0.69477	0.19436	3.57465	0.00035	0.00787
WASHC1	278.231	0.69542	0.25785	2.69699	0.007	0.05752
STING1	842.355	0.69692	0.159	4.38303	1.17E-05	0.00073
0.44	99.71	0.6976	0.21599	3.22972	0.00124	0.01829
ME3	436.156	0.69761	0.19719	3.53775	0.0004	0.0087
TTC23-AS1	42.3142	0.69969	0.2767	2.52872	0.01145	0.07947
TBC1D17	764.747	0.70025	0.14891	4.70256	2.57E-06	0.00026
0.136	345.343	0.70077	0.18654	3.75664	0.00017	0.00496
GABRR2	69.6182	0.70151	0.17632	3.97872	6.93E-05	0.00259
CACNB1	95.7857	0.70227	0.21903	3.20619	0.00135	0.01926
ACVRL1	373.786	0.70279	0.22802	3.08208	0.00206	0.02526
LINGO2	329.349	0.70306	0.24412	2.88003	0.00398	0.03911
POU6F1	307.601	0.70311	0.19234	3.65553	0.00026	0.00646
0.159	566.705	0.70312	0.17292	4.06606	4.78E-05	0.00198
TSPYL2	1441.09	0.70384	0.19168	3.67196	0.00024	0.00628
ARHGAP33	345.126	0.70426	0.27033	2.60514	0.00918	0.06881
TNK2	738.428	0.70448	0.17793	3.95923	7.52E-05	0.00273
HOXD-AS2	64.6153	0.70455	0.27746	2.53929	0.01111	0.07798
SLC22A17	458.944	0.70749	0.26114	2.70929	0.00674	0.05587
ENKD1	183.846	0.70864	0.17932	3.95172	7.76E-05	0.00278
0.9	43.0515	0.70915	0.19893	3.56487	0.00036	0.00801
ANKRA2	281.776	0.71002	0.22235	3.19323	0.00141	0.01981
NR2C1	557.185	0.7101	0.13994	5.07411	3.89E-07	7.40E-05
0.237	49.9444	0.71027	0.24706	2.87495	0.00404	0.03958
ACTN1	4813.01	0.71091	0.2401	2.96084	0.00307	0.033
ADHFE1	161.694	0.71114	0.21824	3.25849	0.00112	0.01711
APPAT	445.681	0.71195	0.23989	2.9678	0.003	0.0324
HLA-DRA	2124.35	0.71208	0.27434	2.59567	0.00944	0.07004
GSN	6024.65	0.71448	0.2232	3.201	0.00137	0.01945
PHLDA3	321.472	0.71476	0.22143	3.22799	0.00125	0.01834
0.126	408.24	0.71585	0.19679	3.63768	0.00028	0.00674
NOSTRIN	225.314	0.71677	0.23855	3.0047	0.00266	0.0301
HLA-E	4680.11	0.71681	0.19693	3.63984	0.00027	0.00672
WASH7P	213.3	0.7177	0.27205	2.63813	0.00834	0.06453
LINC02615	40.8605	0.71838	0.27003	2.66039	0.00781	0.06175
RBM6	2918.92	0.71961	0.1883	3.82164	0.00013	0.00413
LRRC37A3	268.977	0.71967	0.18857	3.81654	0.00014	0.00419
CFAP44	428.075	0.72039	0.26968	2.67125	0.00756	0.06034
PPP4R2P2	27.8624	0.72049	0.2708	2.66057	0.0078	0.06174
ALG13	772.778	0.72058	0.15378	4.68584	2.79E-06	0.00027
DGKB	276.671	0.72058	0.26444	2.72494	0.00643	0.05394
CXCL10	272.419	0.72151	0.29973	2.4072	0.01608	0.09929

SYTL4	762.435	0.72205	0.26442	2.73071	0.00632	0.05335
0.24	287.98	0.72257	0.17371	4.15966	3.19E-05	0.0015
TTC8	414.198	0.72306	0.21895	3.30233	0.00096	0.01556
FHIP1B	961.061	0.72359	0.14562	4.96903	6.73E-07	0.0001
CD27-AS1	339.029	0.72396	0.13419	5.39501	6.85E-08	2.02E-05
COL22A1	130.568	0.72514	0.28118	2.57889	0.00991	0.07236
0.24	72.0844	0.72589	0.24174	3.00272	0.00268	0.03024
0.131	38.0379	0.72671	0.29128	2.49488	0.0126	0.08477
0.185	93.3146	0.72688	0.27234	2.66899	0.00761	0.06064
TMEM44-AS	64.8568	0.72693	0.23667	3.07146	0.00213	0.02584
CELF6	147.943	0.72709	0.26077	2.78823	0.0053	0.04713
SERPINF1	3160.77	0.7279	0.2132	3.41426	0.00064	0.01197
LRRC39	194.983	0.72846	0.24966	2.9178	0.00353	0.03616
TAGAP-AS1	99.4998	0.7299	0.25527	2.85926	0.00425	0.04102
CTSF	873.8	0.72995	0.27601	2.64472	0.00818	0.06378
ATP2C2-AS	31.5058	0.73007	0.29922	2.4399	0.01469	0.09399
COL5A3	741.604	0.73065	0.20704	3.52901	0.00042	0.00886
GOLGA6L4	219.559	0.7315	0.22767	3.21307	0.00131	0.01891
SERPINI1	54.7957	0.73195	0.30293	2.41624	0.01568	0.0978
MICAL1	1543.52	0.73197	0.23367	3.13253	0.00173	0.0225
TCEAL1	575.936	0.73202	0.23722	3.08582	0.00203	0.02503
QTRT1	395.837	0.73278	0.20534	3.5686	0.00036	0.00794
FAM193B	1161.54	0.73316	0.15219	4.81724	1.46E-06	0.00018
KIT	252.521	0.73345	0.22139	3.31288	0.00092	0.0153
CPEB1	79.1375	0.73422	0.27396	2.68006	0.00736	0.05932
CSGALNAC	197.318	0.73569	0.27731	2.65298	0.00798	0.06272
THSD1	153.501	0.73772	0.20959	3.51984	0.00043	0.00905
BTF3	6033.69	0.73777	0.27464	2.68634	0.00722	0.05858
CDKL1	335.165	0.73783	0.28296	2.60753	0.00912	0.06843
TPT1-AS1	764.506	0.73788	0.28387	2.59934	0.00934	0.06953
RAPGEF4	155.722	0.7385	0.24055	3.07005	0.00214	0.02589
CALCOCO1	1692.45	0.73966	0.18631	3.96994	7.19E-05	0.00265
POLR2J3	648.3	0.73996	0.20672	3.57957	0.00034	0.00779
KAT2A	1515.31	0.74022	0.21694	3.41215	0.00064	0.01199
MASP2	140.917	0.74243	0.25905	2.86599	0.00416	0.04037
LY6G5B	201.493	0.74364	0.25056	2.96787	0.003	0.0324
PILRB	1064.91	0.74417	0.28038	2.65412	0.00795	0.0626
NAALADL1	51.6008	0.74432	0.29554	2.51847	0.01179	0.08108
0.189	140.963	0.74509	0.16815	4.43106	9.38E-06	0.00062
TGFB2	1788.51	0.74536	0.24474	3.04547	0.00232	0.02734
MCOLN3	364.487	0.74723	0.28365	2.63434	0.00843	0.0651
0.2	53.289	0.74759	0.21228	3.5218	0.00043	0.00903
YJU2B	597.444	0.74808	0.1528	4.89586	9.79E-07	0.00014
AP1G2	963.932	0.74839	0.20223	3.70069	0.00022	0.00587
RAMP2	405.74	0.74855	0.2828	2.64692	0.00812	0.0635
AGAP6	632.49	0.74882	0.18919	3.95801	7.56E-05	0.00274
SRSF5	3618.91	0.75087	0.16396	4.57948	4.66E-06	0.00039
ITM2C	1574.06	0.75117	0.2118	3.54659	0.00039	0.00851
MORF4L2-A	27.0171	0.75128	0.27086	2.7737	0.00554	0.04872
TAFAZZIN	270.316	0.75132	0.23554	3.18978	0.00142	0.01992
CALHM2	385.33	0.75242	0.25721	2.9253	0.00344	0.03561
ZNF205	204.156	0.75252	0.21633	3.47861	0.0005	0.01004
NPIPA9	826.409	0.75252	0.27002	2.78694	0.00532	0.04727
NPHP3	847.309	0.75333	0.27142	2.77547	0.00551	0.04858
AGER	96.1735	0.75428	0.27759	2.71718	0.00658	0.05479
MDGA1	198.88	0.75441	0.30292	2.49046	0.01276	0.08541

ABCG2	591.943	0.75586	0.22967	3.29102	0.001	0.01601
CLK4	708.616	0.75603	0.22775	3.3195	0.0009	0.01502
MPP3	126.045	0.75677	0.18138	4.17231	3.02E-05	0.00144
COL11A2	25.3347	0.757	0.28227	2.68182	0.00732	0.05909
SLCO2B1	503.417	0.75732	0.26036	2.90869	0.00363	0.03684
GCNA	72.3808	0.75786	0.2501	3.0302	0.00244	0.02829
0.4	28.6478	0.75793	0.25664	2.95327	0.00314	0.03349
RAD52	235.804	0.75841	0.19637	3.86218	0.00011	0.00365
GATAD1	941.141	0.75929	0.14976	5.06997	3.98E-07	7.42E-05
GYG1	388.406	0.75976	0.27006	2.81335	0.0049	0.04471
0.173	86.0629	0.76016	0.23479	3.23765	0.00121	0.01794
HCN3	70.6379	0.76081	0.22126	3.43861	0.00058	0.01115
KMT5C	165.174	0.76232	0.19995	3.81245	0.00014	0.00424
MTMR11	480.815	0.76434	0.20895	3.65793	0.00025	0.00645
TBX19	139.771	0.76621	0.2376	3.22474	0.00126	0.01845
0.96	66.7562	0.76843	0.31473	2.44155	0.01462	0.0938
VSIR	468.274	0.76876	0.28095	2.73631	0.00621	0.05286
TF	59.4447	0.77006	0.27871	2.76297	0.00573	0.04992
EZH1	859.215	0.7703	0.22829	3.37416	0.00074	0.01327
CCDC3	290.938	0.77111	0.31145	2.47586	0.01329	0.08812
TCEA3	278.927	0.77332	0.26688	2.89767	0.00376	0.03763
0.138	362	0.77367	0.22117	3.49809	0.00047	0.00959
RELA-DT	46.2587	0.77508	0.22445	3.45331	0.00055	0.01073
SLC38A11	289.764	0.7755	0.191	4.06023	4.90E-05	0.00201
CYP2E1	85.0705	0.7755	0.27632	2.80653	0.00501	0.04537
UBE2Q2P1	79.946	0.77609	0.21472	3.6145	0.0003	0.00713
CD82	118.909	0.77964	0.31037	2.51192	0.01201	0.08209
TAF1C	1045.9	0.77992	0.17158	4.54565	5.48E-06	0.00043
BDH2	855.341	0.78124	0.1835	4.25737	2.07E-05	0.0011
FOXP2	279.566	0.7822	0.26283	2.97607	0.00292	0.03194
UQCRC2	1942.96	0.78303	0.19892	3.93646	8.27E-05	0.00291
RPL39	3431.43	0.78409	0.31867	2.4605	0.01387	0.09077
0.73	61.5092	0.78432	0.30201	2.59698	0.0094	0.06992
HOXA2	80.7923	0.78498	0.27721	2.83172	0.00463	0.04311
UBA52	3943.8	0.78681	0.27096	2.90383	0.00369	0.03711
AFG3L1P	373.232	0.7907	0.24514	3.22551	0.00126	0.01843
RAB24	233.785	0.79113	0.15916	4.97072	6.67E-07	0.0001
AKR1C1	48.9318	0.79122	0.28602	2.76633	0.00567	0.04957
LINC02367	23.2466	0.79146	0.28577	2.76952	0.00561	0.04922
HDAC10	409.59	0.79358	0.15936	4.97987	6.36E-07	0.0001
ABCC2	31.0006	0.79384	0.27159	2.92294	0.00347	0.0358
TMEM72-AS	40.9702	0.79429	0.28371	2.79971	0.00511	0.04593
HAGLR	133.54	0.7945	0.24654	3.2226	0.00127	0.0185
0.16	84.6678	0.79524	0.27994	2.84077	0.0045	0.04237
RPL5P30	26.9064	0.79826	0.32662	2.44402	0.01452	0.09344
FSTL3	250.035	0.79837	0.31361	2.54574	0.0109	0.077
0.3	166.759	0.79878	0.22779	3.50665	0.00045	0.00939
CCR10	21.6519	0.7993	0.30702	2.60343	0.00923	0.06899
MST1	193.848	0.79979	0.32997	2.42382	0.01536	0.09653
GIMAP8	237.204	0.80139	0.27836	2.87897	0.00399	0.0392
TRAF5	743.842	0.80189	0.22689	3.53422	0.00041	0.00876
TMOD2	248.317	0.80193	0.24937	3.21587	0.0013	0.01881
MDFIC	647.619	0.80206	0.26947	2.97646	0.00292	0.03194
LMCD1	355.581	0.80309	0.29345	2.73676	0.0062	0.05285
GPATCH8	2291.96	0.80533	0.18336	4.39214	1.12E-05	0.00071
ACBD4	124.061	0.80546	0.30646	2.62827	0.00858	0.06586

TTLL3	1591.7	0.80601	0.28509	2.82719	0.0047	0.0435
KLF8	452.191	0.80603	0.26408	3.05218	0.00227	0.02699
ZNF692	408.405	0.80758	0.22944	3.51981	0.00043	0.00905
TNFRSF14	680.83	0.80844	0.22364	3.61483	0.0003	0.00713
KLHL17	77.8002	0.80941	0.24027	3.36883	0.00075	0.01339
CD46	7313.55	0.80949	0.19638	4.12198	3.76E-05	0.00169
JCAD	1002.56	0.81071	0.2714	2.98718	0.00282	0.03124
0.81	142.927	0.81108	0.28469	2.84895	0.00439	0.04179
APBB3	437.256	0.81227	0.23293	3.48714	0.00049	0.00983
0.27	41.5441	0.81252	0.24396	3.3305	0.00087	0.01468
GOLGA8N	439.101	0.81256	0.19158	4.24146	2.22E-05	0.00116
MSTN	171.496	0.81262	0.2405	3.37891	0.00073	0.01312
0.13	150.913	0.81298	0.18201	4.46675	7.94E-06	0.00056
KLHL3	310.074	0.81438	0.25654	3.17453	0.0015	0.02061
TSPOAP1	668.758	0.81479	0.32942	2.47339	0.01338	0.08855
PRKCB	164.747	0.81669	0.33273	2.45454	0.01411	0.09177
MZF1	737.607	0.81836	0.25847	3.16621	0.00154	0.02097
PODN	735.597	0.81842	0.31233	2.62036	0.00878	0.06682
GIMAP6	364.688	0.81864	0.27225	3.00695	0.00264	0.02993
GARIN1A	88.31	0.81898	0.23578	3.47353	0.00051	0.01021
GOLGA6L1	77.0609	0.81954	0.29792	2.75089	0.00594	0.05127
CFH	820.353	0.81989	0.33415	2.45368	0.01414	0.09187
ZDHHC14	478.117	0.81998	0.28493	2.87778	0.004	0.03931
RIMBP2	174.562	0.82027	0.33869	2.4219	0.01544	0.0969
SRRM2	2355.13	0.82261	0.28912	2.84524	0.00444	0.04208
SHE	248.035	0.82285	0.26862	3.06326	0.00219	0.02631
CSAD	567.632	0.82317	0.18732	4.39451	1.11E-05	0.00071
MAPK11	89.5285	0.82528	0.32086	2.57208	0.01011	0.07331
0.266	1430.41	0.82645	0.26052	3.17231	0.00151	0.02068
ICAM2	207.481	0.82655	0.25861	3.19616	0.00139	0.0197
0.7	588.987	0.82692	0.19867	4.16218	3.15E-05	0.00149
STK26	726.423	0.82756	0.32844	2.51967	0.01175	0.08097
DHX58	178.292	0.83183	0.22265	3.73597	0.00019	0.00525
PIGZ	72.0883	0.83195	0.27885	2.98352	0.00285	0.03147
VAMP1	305.045	0.83243	0.22274	3.73721	0.00019	0.00525
HSD17B7P2	63.617	0.83253	0.28795	2.8912	0.00384	0.03811
CYBRD1	2090.84	0.83351	0.29672	2.80905	0.00497	0.04516
LINC01278	1570.36	0.83406	0.2022	4.12486	3.71E-05	0.00168
PATL2	27.4112	0.83767	0.23259	3.60155	0.00032	0.00737
RNPC3	1074.94	0.83837	0.17194	4.87595	1.08E-06	0.00015
IFFO1	306.707	0.83852	0.25572	3.27906	0.00104	0.01638
CES4A	184.029	0.83866	0.34614	2.42286	0.0154	0.09668
MUC20	281.954	0.83874	0.25024	3.35176	0.0008	0.01395
COL16A1	2900.09	0.83881	0.29384	2.85468	0.00431	0.04134
STARD5	252.505	0.84025	0.27672	3.03649	0.00239	0.02788
UBAP1L	314.364	0.8416	0.29237	2.87859	0.00399	0.03923
RRP7BP	569.481	0.84429	0.23953	3.52474	0.00042	0.00895
SSC5D	485.308	0.84439	0.33249	2.53961	0.0111	0.07794
TACC1	3249.4	0.84609	0.27647	3.06037	0.00221	0.02646
PPM1L-DT	29.1619	0.84636	0.30924	2.73688	0.0062	0.05285
RIMS3	93.5431	0.847	0.32063	2.64171	0.00825	0.06416
MAN1C1	328.286	0.84842	0.30762	2.75804	0.00581	0.05042
ZGLP1	31.1041	0.84908	0.22577	3.76087	0.00017	0.00489
CALD1	9630.88	0.84935	0.35131	2.41766	0.01562	0.0976
GNG11	753.024	0.84993	0.3508	2.42284	0.0154	0.09668
ADGRE5	792.532	0.85238	0.32773	2.60083	0.0093	0.06938

PTPRB	822.875	0.85307	0.32012	2.66487	0.0077	0.06114
HLA-DMA	556.393	0.85315	0.21854	3.90386	9.47E-05	0.00321
MEGF10	61.8274	0.85512	0.34991	2.44382	0.01453	0.09346
0.22	29.8627	0.85714	0.29695	2.88643	0.0039	0.03848
ZNF366	149.343	0.8587	0.27762	3.0931	0.00198	0.02469
0.135	390.638	0.86021	0.27878	3.08566	0.00203	0.02503
SMTN	3589.18	0.86146	0.30257	2.84715	0.00441	0.04195
CTSK	2203.93	0.86202	0.28213	3.05536	0.00225	0.02677
DCST2	46.8812	0.86223	0.3109	2.7733	0.00555	0.04874
DKK2	286.78	0.86301	0.33134	2.60464	0.0092	0.06882
0.196	84.5385	0.86305	0.34468	2.50387	0.01228	0.08356
NICN1	228.363	0.86448	0.18001	4.80249	1.57E-06	0.00019
0.261	30.7247	0.86586	0.27369	3.16365	0.00156	0.02108
WASHC3	243.23	0.86592	0.21122	4.09966	4.14E-05	0.0018
BCHE	511.034	0.86595	0.2746	3.15354	0.00161	0.02155
BRI3	969.603	0.86628	0.33875	2.55733	0.01055	0.07539
PLA2G6	813.742	0.86724	0.22118	3.92095	8.82E-05	0.00305
0.145	404.513	0.86789	0.16954	5.11923	3.07E-07	6.13E-05
KANK1	1344.47	0.87046	0.30475	2.85627	0.00429	0.0412
LIME1	88.3846	0.87232	0.28212	3.09199	0.00199	0.02471
ZNF540	64.3986	0.87249	0.24167	3.61025	0.00031	0.00719
THRB	71.4307	0.87264	0.30967	2.818	0.00483	0.04429
CCNL2	3316.88	0.87612	0.22365	3.91738	8.95E-05	0.00308
D2HGDH	492.993	0.87705	0.32604	2.69003	0.00714	0.05827
TGFB1I1	1603.02	0.87714	0.27467	3.19336	0.00141	0.01981
PNISR	4566.86	0.87816	0.14581	6.02257	1.72E-09	8.93E-07
0.226	151.872	0.87967	0.31042	2.83377	0.0046	0.04295
PHLDB2	415.641	0.87969	0.33971	2.58953	0.00961	0.07087
LTB4R	96.0825	0.88362	0.26778	3.29981	0.00097	0.01568
0.42	144.807	0.88499	0.18961	4.66747	3.05E-06	0.0003
PDE7B	213.341	0.88705	0.29318	3.02563	0.00248	0.02864
0.203	419.412	0.88832	0.34317	2.58859	0.00964	0.07099
TIE1	448.398	0.88874	0.27507	3.23102	0.00123	0.01823
PGGHG	1013.32	0.88904	0.26754	3.323	0.00089	0.01492
RPLP1	8348.52	0.89064	0.29876	2.98115	0.00287	0.03166
FBXO44	204.773	0.89297	0.21207	4.21073	2.55E-05	0.00129
NDRG2	1826.22	0.89447	0.1988	4.49944	6.81E-06	0.00049
SLX1B-SUL	58.2039	0.89485	0.19929	4.49027	7.11E-06	0.00051
TEPSIN	372.229	0.89497	0.20842	4.29406	1.75E-05	0.00099
CACNA1H	1257.22	0.89552	0.29983	2.98676	0.00282	0.03125
COL6A2	23215.8	0.89783	0.19873	4.51795	6.24E-06	0.00047
SYNGR1	359.837	0.8979	0.20747	4.3278	1.51E-05	0.00087
AASS	1724.89	0.89873	0.24471	3.67262	0.00024	0.00627
STX16	2184.48	0.89966	0.1852	4.85786	1.19E-06	0.00016
0.4	40.4734	0.9012	0.2653	3.39695	0.00068	0.01245
ENTPD1	1170.61	0.90136	0.30371	2.96784	0.003	0.0324
DENND2B	2464.84	0.90231	0.22185	4.06713	4.76E-05	0.00197
SMIM14-DT	27.0797	0.90321	0.36662	2.46363	0.01375	0.0902
KCNIP2	20.041	0.90491	0.32298	2.80181	0.00508	0.04571
RBM5	4199.61	0.90497	0.18432	4.90972	9.12E-07	0.00013
0.58	240.352	0.90585	0.29804	3.03937	0.00237	0.02772
NPR3	157.666	0.90671	0.29292	3.09543	0.00197	0.02458
CLEC2D	232.471	0.90765	0.2357	3.8509	0.00012	0.00378
EPHA3	87.3766	0.90876	0.35657	2.54864	0.01081	0.07652
BLOC1S1	351.473	0.90954	0.32104	2.8331	0.00461	0.04297
GIMAP4	278.547	0.90983	0.27729	3.28111	0.00103	0.01633

GABRE	802.798	0.91031	0.32742	2.78028	0.00543	0.048
RPS2	23885.6	0.91263	0.33189	2.74977	0.00596	0.05137
SEC31B	440.355	0.91383	0.1982	4.61072	4.01E-06	0.00034
LRRC66	35.4166	0.91386	0.23781	3.84286	0.00012	0.00387
PPM1K	666.158	0.91538	0.29586	3.09396	0.00198	0.02467
NRBP2	935.079	0.91603	0.19156	4.78185	1.74E-06	0.0002
UBA7	536.661	0.91707	0.2761	3.32156	0.0009	0.01495
XAF1	1246.37	0.91746	0.20677	4.43701	9.12E-06	0.00062
0.6	74.0851	0.91901	0.32402	2.83626	0.00456	0.04281
HSF4	357.936	0.91921	0.36212	2.5384	0.01114	0.07805
0.116	20.3335	0.92	0.38124	2.41318	0.01581	0.09838
HPGD	304.811	0.92119	0.29474	3.12541	0.00178	0.0229
TINAGL1	682.465	0.92197	0.34304	2.6877	0.00719	0.05846
LINC01089	292.089	0.92296	0.34558	2.67079	0.00757	0.06037
CCDC88B	91.2059	0.92366	0.28968	3.18855	0.00143	0.01996
CDH13-AS2	308.264	0.92408	0.32683	2.8274	0.00469	0.0435
SELENOM	1531.57	0.92488	0.28662	3.22688	0.00125	0.01838
0.34	488.003	0.92716	0.25429	3.64606	0.00027	0.00659
SH3BP5-AS	582.994	0.92794	0.26817	3.46028	0.00054	0.01055
NPIP6	32.8713	0.9288	0.38089	2.43851	0.01475	0.09419
TSPAN7	353.971	0.93061	0.35838	2.59672	0.00941	0.06995
0.1	48.9528	0.93096	0.32276	2.88441	0.00392	0.03865
CXCL12	2775.54	0.93227	0.28664	3.25237	0.00114	0.01739
KDR	833.615	0.93455	0.28587	3.2691	0.00108	0.01675
ADAMTSL3	139.432	0.93526	0.31432	2.97551	0.00293	0.03194
ADAMTSL1	463.616	0.93621	0.3098	3.022	0.00251	0.02889
COLQ	289.516	0.93628	0.20094	4.65959	3.17E-06	0.0003
SNCA	129.658	0.93692	0.35966	2.60503	0.00919	0.06881
PLAGL1	972.064	0.93818	0.287	3.26889	0.00108	0.01675
IDUA	398.378	0.93867	0.20157	4.65675	3.21E-06	0.0003
SLC23A3	76.4835	0.94055	0.27607	3.40699	0.00066	0.01209
PLB1	87.3136	0.94073	0.22578	4.16658	3.09E-05	0.00147
NGEF	106.174	0.94246	0.32593	2.89162	0.00383	0.03811
RSRP1	2166.53	0.94261	0.23704	3.97667	6.99E-05	0.0026
PTOV1-AS2	32.6702	0.94409	0.27818	3.39381	0.00069	0.01255
ANAPC4	4649.48	0.94482	0.36762	2.57013	0.01017	0.07354
MLPH	746.487	0.94487	0.27204	3.4733	0.00051	0.01021
PLPP3	3240.19	0.94498	0.28801	3.28108	0.00103	0.01633
SGCE	969.646	0.94693	0.22199	4.26558	1.99E-05	0.00108
TMEM273	131.294	0.94722	0.27356	3.46258	0.00054	0.0105
PPT2-EGFL	91.5104	0.94745	0.39002	2.42924	0.01513	0.09571
TRIM9	84.6492	0.94769	0.39089	2.42444	0.01533	0.09647
0.109	21.2382	0.95064	0.36144	2.63014	0.00854	0.06571
ACCS	619.001	0.95147	0.20121	4.72866	2.26E-06	0.00024
TCEAL4	1688.55	0.95147	0.35824	2.65595	0.00791	0.06234
GIMAP5	292.89	0.95467	0.26237	3.63859	0.00027	0.00674
ANTXR2	3459.67	0.95793	0.34375	2.78671	0.00532	0.04727
ANKRD24	18.2974	0.95907	0.33544	2.85916	0.00425	0.04102
LCAT	151.606	0.95934	0.28757	3.33598	0.00085	0.01449
ZRANB2	4063.45	0.96021	0.22218	4.32179	1.55E-05	0.00089
AEBP1	3308.13	0.96116	0.26285	3.65673	0.00026	0.00645
TLL1	102.141	0.96342	0.30824	3.12556	0.00177	0.0229
NRK	93.5408	0.96827	0.30087	3.21828	0.00129	0.01871
AP4B1-AS1	44.8715	0.96925	0.24539	3.94986	7.82E-05	0.0028
CAPN3	421.734	0.9695	0.2873	3.37455	0.00074	0.01326
0.66	342.028	0.97068	0.2674	3.63009	0.00028	0.00686

CDH26	23.6104	0.97174	0.26961	3.60423	0.00031	0.00731
NLRP1	551.969	0.97178	0.26312	3.69328	0.00022	0.00595
CLK1	2336.57	0.97362	0.22266	4.37262	1.23E-05	0.00076
FCGR2C	89.3716	0.97424	0.34292	2.841	0.0045	0.04237
GOLGA8M	47.2773	0.97475	0.27402	3.5572	0.00037	0.00822
CDC42EP3	1527.24	0.97496	0.33288	2.92887	0.0034	0.03536
0.151	53.4703	0.97613	0.26882	3.63114	0.00028	0.00684
TMEM47	627.974	0.97651	0.29259	3.3375	0.00085	0.01444
ZRSR2	326.358	0.97806	0.21928	4.46026	8.19E-06	0.00057
SLC45A3	38.2927	0.97824	0.33561	2.91483	0.00356	0.0364
CARD19	142.578	0.98126	0.26754	3.66771	0.00024	0.00634
AGAP9	310.485	0.98176	0.34813	2.82006	0.0048	0.04411
TUBG2	296.261	0.98321	0.19454	5.05395	4.33E-07	7.78E-05
FGD2	63.1443	0.98436	0.39063	2.51995	0.01174	0.08096
PGM5P3-AS	39.5662	0.98446	0.40789	2.41354	0.0158	0.09834
USHBP1	83.9623	0.98501	0.31368	3.14014	0.00169	0.02212
LAMA4	3978.55	0.98572	0.31181	3.1613	0.00157	0.02115
MYO15B	3514.82	0.98636	0.31663	3.11514	0.00184	0.02353
0.165	31.3222	0.98771	0.36309	2.72027	0.00652	0.0545
0.36	36.6899	0.99231	0.25612	3.87438	0.00011	0.00352
FLT4	495.13	0.99416	0.31699	3.13621	0.00171	0.02228
KLF3-AS1	170.396	0.99451	0.26044	3.81862	0.00013	0.00417
OGT	6394.32	0.99492	0.26932	3.69423	0.00022	0.00595
CDRT4	252.329	0.99518	0.37661	2.64247	0.00823	0.06404
DPYSL3	1860.03	0.99553	0.3786	2.6295	0.00855	0.06576
EHBP1L1	1413.51	0.99739	0.27886	3.5766	0.00035	0.00783
POLN	64.0477	1.00124	0.19522	5.12866	2.92E-07	5.95E-05
0.127	34.5542	1.00191	0.35823	2.79681	0.00516	0.04629
0.74	96.7434	1.00453	0.35424	2.83569	0.00457	0.04285
RNASE4	297.38	1.00475	0.38644	2.60001	0.00932	0.06947
0.38	30.5093	1.00522	0.28972	3.46968	0.00052	0.01032
0.167	45.1827	1.00781	0.27887	3.6139	0.0003	0.00713
SCARF1	138.514	1.00832	0.31795	3.17126	0.00152	0.02068
LINC01116	45.6968	1.01021	0.40133	2.51715	0.01183	0.0813
0.198	28.4653	1.01123	0.3125	3.23596	0.00121	0.01801
MROCKI	171.377	1.0128	0.32027	3.1623	0.00157	0.02115
0.32	25.934	1.01381	0.31446	3.224	0.00126	0.01845
CCDC18-AS	328.561	1.01487	0.30881	3.28643	0.00101	0.01614
POM121L9F	20.93	1.01611	0.39731	2.55745	0.01054	0.07539
RBM25	10186.5	1.01675	0.22008	4.61993	3.84E-06	0.00034
ITPR1	840.308	1.01749	0.41226	2.46811	0.01358	0.08927
SSUH2	26.349	1.01992	0.41227	2.47389	0.01337	0.08849
0.43	30.0635	1.02164	0.29446	3.46948	0.00052	0.01032
ECHDC2	1331.37	1.02267	0.23063	4.43431	9.24E-06	0.00062
ACAD11	687.417	1.02273	0.21016	4.86651	1.14E-06	0.00015
TNS2	2248.12	1.02491	0.25183	4.06989	4.70E-05	0.00197
GLI4	178.737	1.02646	0.18766	5.46977	4.51E-08	1.48E-05
FLT3LG	47.4378	1.02678	0.37514	2.73711	0.0062	0.05284
0.98	22.9954	1.02699	0.34144	3.00787	0.00263	0.02987
CD40	167.375	1.02706	0.23683	4.33668	1.45E-05	0.00085
MMRN1	628.448	1.02779	0.38943	2.6392	0.00831	0.06443
RNASE1	1200.03	1.02905	0.42167	2.44038	0.01467	0.09396
SYNPO	705.797	1.03013	0.39813	2.58739	0.00967	0.07121
DMPK	1260.02	1.03058	0.28188	3.65613	0.00026	0.00646
SLC25A35	501.257	1.03138	0.35258	2.92522	0.00344	0.03561
0.253	55.4781	1.0327	0.3802	2.71616	0.0066	0.05491

0.238	78.953	1.03291	0.34537	2.99075	0.00278	0.031
EPHA4	163.431	1.0348	0.29524	3.50495	0.00046	0.00943
MEG3	5693.24	1.03485	0.28923	3.57793	0.00035	0.00781
P2RX7	149.677	1.03641	0.2803	3.69744	0.00022	0.0059
0.156	1816.31	1.03682	0.27749	3.73639	0.00019	0.00525
SMOC2	2069.11	1.03702	0.3173	3.26829	0.00108	0.01675
SERPING1	3769.89	1.03862	0.32236	3.22196	0.00127	0.0185
0.94	24.2254	1.03871	0.3456	3.00549	0.00265	0.03004
RPL23AP42	5702.08	1.04018	0.33299	3.12376	0.00179	0.023
SLC22A3	220.618	1.04359	0.22232	4.69401	2.68E-06	0.00026
LENG8	6165.77	1.04426	0.28124	3.71302	0.0002	0.00564
0.13	84.7933	1.04459	0.23421	4.45996	8.20E-06	0.00057
0.17	31.9614	1.04589	0.30676	3.40945	0.00065	0.01206
KPNA2P3	50.2668	1.04682	0.29925	3.49812	0.00047	0.00959
TPRG1	40.7286	1.04912	0.33946	3.09056	0.002	0.02479
DPP4	257.9	1.05027	0.42763	2.45601	0.01405	0.09148
ALS2CL	222.919	1.05079	0.34461	3.0492	0.00229	0.02707
SLC2A12	174.819	1.05159	0.3182	3.30483	0.00095	0.01549
0.231	70.8563	1.0521	0.29015	3.62606	0.00029	0.00691
TRIM73	27.6939	1.0525	0.36235	2.90463	0.00368	0.03707
KEL	20.5848	1.05439	0.40423	2.60837	0.0091	0.06834
0.184	58.1103	1.05442	0.29436	3.58212	0.00034	0.00772
SLC7A3	79.5327	1.05455	0.42212	2.49822	0.01248	0.08431
SLCO2A1	803.286	1.05456	0.43041	2.45015	0.01428	0.09232
LDB2	1325.11	1.05462	0.24934	4.22963	2.34E-05	0.0012
LGI2	130.666	1.05664	0.31733	3.32973	0.00087	0.01469
AMIGO2	441.307	1.05734	0.40739	2.59543	0.00945	0.07006
VIP	139.529	1.05845	0.43284	2.44535	0.01447	0.09319
TGFBR3	780.922	1.05937	0.32948	3.21529	0.0013	0.01881
ALOX5	89.0684	1.05947	0.42143	2.51401	0.01194	0.0817
0.199	63.0105	1.06134	0.37591	2.8234	0.00475	0.04382
P2RY11	99.0908	1.06237	0.34021	3.12269	0.00179	0.02305
SLC25A34	27.8203	1.06383	0.33026	3.22119	0.00128	0.01853
DPY19L2	329.584	1.06442	0.24017	4.43203	9.34E-06	0.00062
SEC16B	194.3	1.06568	0.24984	4.26537	2.00E-05	0.00108
CROCCP3	46.3275	1.06708	0.32749	3.2583	0.00112	0.01711
0.139	332.054	1.06923	0.25582	4.17968	2.92E-05	0.00141
RGS5	3922.42	1.06938	0.37308	2.86635	0.00415	0.04034
TIMP3	4101.6	1.0694	0.36434	2.93519	0.00333	0.03477
FAM182B	34.9063	1.0698	0.41032	2.60722	0.00913	0.06843
0.89	39.1985	1.06985	0.37004	2.89119	0.00384	0.03811
GIPC3	49.9312	1.07063	0.39606	2.70317	0.00687	0.0566
CPLX1	74.2221	1.07363	0.42118	2.54911	0.0108	0.07647
0.87	285.549	1.07381	0.36993	2.90276	0.0037	0.0372
NSUN5P2	160.172	1.07563	0.2601	4.13541	3.54E-05	0.00163
TAL1	87.7077	1.07599	0.30467	3.53159	0.00041	0.0088
CBX7	622.79	1.07686	0.36665	2.93705	0.00331	0.03472
PPIAP53	32.6696	1.07745	0.33774	3.19016	0.00142	0.01991
0.234	42.4307	1.07861	0.43142	2.50012	0.01242	0.08401
0.152	40.2191	1.07981	0.25831	4.18026	2.91E-05	0.00141
MYOM1	77.5775	1.08224	0.30006	3.60671	0.00031	0.00726
DTNA	71.5076	1.08229	0.43012	2.51628	0.01186	0.08139
0.246	82.5305	1.08354	0.29453	3.67891	0.00023	0.00616
RGMA	1347.76	1.08489	0.29373	3.69356	0.00022	0.00595
0.83	27.4362	1.08589	0.34724	3.12716	0.00177	0.02281
NPIPB11	358.425	1.08599	0.31823	3.41264	0.00064	0.01199

LIFR	1222.6	1.08668	0.36324	2.99162	0.00277	0.03096
VWA3A	286.57	1.0872	0.39754	2.73484	0.00624	0.053
IL11RA	278.509	1.08766	0.24927	4.36335	1.28E-05	0.00079
ADAM33	2893.96	1.08818	0.28122	3.86951	0.00011	0.00355
NACA	5729.35	1.0887	0.26413	4.12182	3.76E-05	0.00169
APOL3	265.086	1.0889	0.24964	4.36191	1.29E-05	0.00079
WSB1	3996.48	1.08957	0.17676	6.16404	7.09E-10	4.67E-07
0.227	43.0665	1.09004	0.27715	3.933	8.39E-05	0.00295
CCDC159	193.836	1.09061	0.18549	5.87977	4.11E-09	1.98E-06
0.23	60.7489	1.09356	0.33862	3.22952	0.00124	0.01829
NPFF	21.7199	1.09378	0.3735	2.92848	0.00341	0.03539
RAPGEF3	552.633	1.09441	0.27051	4.04566	5.22E-05	0.0021
CLEC14A	209.956	1.09723	0.34965	3.13807	0.0017	0.02225
WNT2B	318.086	1.09828	0.37808	2.90491	0.00367	0.03705
DCN	64291.3	1.09837	0.36349	3.02174	0.00251	0.02889
LYL1	42.9897	1.10049	0.3809	2.88916	0.00386	0.0383
TRHDE	238.162	1.10198	0.43157	2.55344	0.01067	0.07585
NDUFA4	2097.28	1.10264	0.32393	3.40397	0.00066	0.01221
HERC5	153.244	1.10389	0.33059	3.3392	0.00084	0.01439
U2AF1L4	156.514	1.10423	0.20979	5.26344	1.41E-07	3.41E-05
MMRN2	376.686	1.10806	0.39123	2.83226	0.00462	0.04306
CAVIN2	483.995	1.10833	0.4012	2.76257	0.00573	0.04992
CCM2L	52.8234	1.11025	0.42116	2.63617	0.00838	0.0648
FBXL8	132.027	1.11316	0.33253	3.34752	0.00082	0.0141
APOD	856.518	1.11444	0.35028	3.18156	0.00146	0.02029
RSAD2	137.701	1.11569	0.39908	2.79569	0.00518	0.04637
AMY2B	249.641	1.11679	0.30067	3.71433	0.0002	0.00563
0.28	20.937	1.11847	0.35812	3.12317	0.00179	0.02303
DOC2B	82.0306	1.11911	0.43904	2.54899	0.0108	0.07647
MYH3	120.778	1.1222	0.24876	4.5111	6.45E-06	0.00048
SHANK3	1050.16	1.12357	0.25284	4.44378	8.84E-06	0.00061
SLC5A4	27.446	1.13065	0.27947	4.04574	5.22E-05	0.0021
ABI3BP	1157.37	1.13371	0.31746	3.57119	0.00036	0.00792
0.17	101.847	1.13423	0.38381	2.95519	0.00312	0.03332
LRRN4CL	144.138	1.13468	0.43865	2.58674	0.00969	0.07131
ALDH8A1	159.347	1.13576	0.3078	3.68987	0.00022	0.00601
ENPP1	567.267	1.13783	0.41253	2.75816	0.00581	0.05042
TENM1	45.3939	1.13816	0.46693	2.43753	0.01479	0.09422
ZNNT1	66.2516	1.14202	0.32947	3.46627	0.00053	0.01041
CMYA5	360.766	1.14418	0.436	2.62425	0.00868	0.06626
LRRC2	66.7758	1.14562	0.47197	2.42734	0.01521	0.09604
ACOX2	227.128	1.14661	0.24526	4.67502	2.94E-06	0.00029
GOLGA8B	1683.74	1.14745	0.27018	4.24695	2.17E-05	0.00115
GIMAP7	139.402	1.14792	0.35836	3.20326	0.00136	0.01937
0.252	25.9238	1.14811	0.3193	3.59573	0.00032	0.00747
NPIPB5	7260.92	1.14826	0.36927	3.10951	0.00187	0.02383
PRX	103.96	1.1509	0.26051	4.4179	9.97E-06	0.00065
GIMAP1	185.442	1.15121	0.34021	3.38382	0.00071	0.01293
SOCS2-AS1	146.66	1.15285	0.30292	3.80586	0.00014	0.00433
CIMAP1B	218.288	1.15755	0.44705	2.5893	0.00962	0.07089
LINC01016	118.986	1.15829	0.39868	2.90529	0.00367	0.03705
SH3TC2	27.3016	1.16139	0.38001	3.0562	0.00224	0.02673
FHL1	1786.27	1.16161	0.36387	3.1924	0.00141	0.01983
LINC02604	123.04	1.16353	0.31428	3.70222	0.00021	0.00586
AGTR1	24.9659	1.16373	0.47948	2.42708	0.01522	0.09605
GOLGA6L5I	135.359	1.16428	0.26164	4.44988	8.59E-06	0.0006

ARGLU1	4618.52	1.16743	0.18424	6.33659	2.35E-10	1.79E-07
0.235	83.1244	1.16785	0.33132	3.52481	0.00042	0.00895
TOMM7	713.885	1.17723	0.38997	3.01877	0.00254	0.02909
CCN4	520.039	1.1781	0.34546	3.41025	0.00065	0.01205
CHKB-CPT1	65.8401	1.18146	0.32186	3.6707	0.00024	0.0063
LTF	97.1896	1.18157	0.48066	2.45822	0.01396	0.09107
FRZB	258.104	1.18323	0.4056	2.91723	0.00353	0.03618
0.105	33.3717	1.1839	0.25423	4.65689	3.21E-06	0.0003
TLE2	498.969	1.18479	0.3306	3.58371	0.00034	0.0077
TAS2R5	47.4628	1.18542	0.33687	3.51894	0.00043	0.00907
TTYH2	105.696	1.18635	0.32757	3.62164	0.00029	0.00701
MHENCN	43.9248	1.18796	0.28486	4.17034	3.04E-05	0.00145
AGTR2	263.567	1.1894	0.45472	2.61569	0.0089	0.06743
ADGRB3-D1	112.694	1.19066	0.22735	5.2372	1.63E-07	3.75E-05
DSTN	4272.89	1.19178	0.34609	3.44359	0.00057	0.011
SVIL	2627.56	1.19381	0.35172	3.39424	0.00069	0.01255
SORCS2	59.4759	1.19456	0.46527	2.56743	0.01025	0.07392
NSRP1P1	21.2995	1.19651	0.39756	3.00964	0.00262	0.02974
CHRM3	49.7039	1.20063	0.38044	3.15588	0.0016	0.02142
PHACTR3	18.039	1.20305	0.48667	2.47202	0.01344	0.08883
RPL31	6180.86	1.20571	0.41764	2.88694	0.00389	0.03847
HOXD9	602.845	1.20752	0.28894	4.17918	2.93E-05	0.00141
RIPOR2	449.067	1.20833	0.38704	3.12197	0.0018	0.02307
0.19	16.6156	1.20982	0.49664	2.43602	0.01485	0.09438
KCND3	470.403	1.21314	0.36805	3.29614	0.00098	0.01582
BOC	708.174	1.21396	0.30337	4.00162	6.29E-05	0.00241
CD36	1138.91	1.21415	0.44421	2.73331	0.00627	0.0532
0.11	23.0475	1.21606	0.32569	3.73382	0.00019	0.00528
FAM156A	569.86	1.21634	0.42451	2.86528	0.00417	0.04044
BVES-AS1	27.129	1.21788	0.41634	2.92521	0.00344	0.03561
MTCO1P12	790.691	1.22267	0.47509	2.57355	0.01007	0.07308
SLC6A16	53.6016	1.22506	0.29754	4.11732	3.83E-05	0.00171
CUTALP	477.708	1.22749	0.3985	3.08024	0.00207	0.02535
0.269	77.815	1.22952	0.30374	4.04791	5.17E-05	0.00209
SLC25A27	263.93	1.23215	0.29542	4.17081	3.04E-05	0.00145
ENTPD2	116.857	1.23314	0.47228	2.61103	0.00903	0.06801
CEACAM19	118.528	1.23379	0.27084	4.55536	5.23E-06	0.00042
SULT1A3	90.2813	1.23476	0.32571	3.79096	0.00015	0.00452
0.158	155.417	1.23491	0.31891	3.87228	0.00011	0.00353
C3orf70	255.912	1.2361	0.40011	3.08941	0.00201	0.02485
MS4A14	29.9426	1.23939	0.50829	2.43834	0.01475	0.09419
CC2D2B	45.1311	1.24132	0.39078	3.17652	0.00149	0.02054
SRL	28.1839	1.24315	0.32381	3.8392	0.00012	0.00391
NOL3	173.039	1.24486	0.27989	4.44774	8.68E-06	0.0006
SCNN1D	75.5186	1.2451	0.35251	3.53214	0.00041	0.00879
GRIK4	22.5776	1.24721	0.48136	2.59102	0.00957	0.07071
LINC01936	28.6257	1.24961	0.49117	2.54417	0.01095	0.07726
0.19	26.533	1.24976	0.43871	2.84871	0.00439	0.0418
JAZF1-AS1	47.8595	1.24983	0.39652	3.152	0.00162	0.02157
GPM6A	78.5882	1.25037	0.39332	3.17901	0.00148	0.02039
VWA7	31.3569	1.25207	0.43808	2.85807	0.00426	0.04111
SOX18	304.605	1.25389	0.50498	2.48308	0.01303	0.08679
RIC3	106.991	1.25812	0.44876	2.80356	0.00505	0.04559
PIPOX	35.8527	1.26317	0.40633	3.10874	0.00188	0.02383
NRN1	78.0755	1.26344	0.3902	3.23796	0.0012	0.01794
RIPOR3	519.091	1.26503	0.35159	3.598	0.00032	0.00742

LASP1NB	37.6971	1.26947	0.38834	3.269	0.00108	0.01675
0.212	37.7553	1.27287	0.44755	2.84411	0.00445	0.04214
GDPD3	114.458	1.27577	0.20867	6.11369	9.74E-10	5.73E-07
TSKS	15.7601	1.27588	0.49249	2.5907	0.00958	0.07071
TMEM91	76.4089	1.27705	0.29757	4.29156	1.77E-05	0.00099
SCGB2A1	1513.43	1.27788	0.49812	2.5654	0.01031	0.07422
TPH1	36.5248	1.27853	0.31562	4.05087	5.10E-05	0.00207
LUC7L3	4661.05	1.27921	0.21031	6.08266	1.18E-09	6.49E-07
NNMT	235.994	1.28114	0.47285	2.70942	0.00674	0.05587
FCGR2B	118.158	1.28488	0.34105	3.76739	0.00016	0.00482
SRSF11	11616.1	1.28521	0.3069	4.18775	2.82E-05	0.00138
SLC26A7	1086.06	1.28784	0.39749	3.23989	0.0012	0.01786
GNAZ	57.1218	1.28826	0.51816	2.48623	0.01291	0.0862
PEAR1	346.655	1.28873	0.33624	3.8328	0.00013	0.004
RGS13	88.568	1.29288	0.43371	2.98099	0.00287	0.03166
0.207	222.02	1.29488	0.25885	5.00244	5.66E-07	9.40E-05
COL4A5	1860.34	1.3011	0.30174	4.31193	1.62E-05	0.00092
MIR503HG	1658.07	1.30122	0.40238	3.23384	0.00122	0.01811
0.164	42.5521	1.30159	0.50944	2.55496	0.01062	0.07572
FRMD6-AS2	54.8246	1.30237	0.2985	4.36304	1.28E-05	0.00079
RDH16	25.4412	1.30424	0.37747	3.45521	0.00055	0.01071
DIPK2B	754.007	1.30707	0.32845	3.97946	6.91E-05	0.00259
NPY1R	167.009	1.30769	0.40528	3.22665	0.00125	0.01838
EBF3	37.1612	1.30772	0.39373	3.32133	0.0009	0.01495
FAM107A	246.886	1.31249	0.3968	3.30768	0.00094	0.01543
SLC6A20	59.2287	1.31255	0.4438	2.95751	0.0031	0.0332
ASIC1	39.4754	1.31493	0.37789	3.47969	0.0005	0.01001
S100A4	134.895	1.31513	0.39039	3.36877	0.00076	0.01339
PDE8B	340.741	1.31767	0.3666	3.59428	0.00033	0.0075
ITM2A	257.798	1.32352	0.47872	2.76471	0.0057	0.04972
0.33	235.156	1.32421	0.46846	2.82674	0.0047	0.0435
0.12	258.491	1.32579	0.47513	2.79037	0.00526	0.04685
MEG9	34.2698	1.32835	0.38572	3.44385	0.00057	0.011
LCDR	46.8536	1.32881	0.31343	4.2396	2.24E-05	0.00117
0.104	23.5419	1.32987	0.34002	3.91114	9.19E-05	0.00314
PLN	772	1.33055	0.43356	3.06888	0.00215	0.02596
0.118	122.15	1.33421	0.36189	3.68683	0.00023	0.00605
YJEFN3	120.001	1.3346	0.3161	4.22202	2.42E-05	0.00124
0.21	78.0189	1.33636	0.30298	4.41077	1.03E-05	0.00066
MATN2	1521	1.33742	0.28425	4.70514	2.54E-06	0.00026
KCTD16	100.902	1.339	0.33473	4.00028	6.33E-05	0.00241
PRKG1	321.118	1.34226	0.4053	3.31179	0.00093	0.01531
PLA2G4B	194.246	1.34327	0.40595	3.30899	0.00094	0.0154
MBNL1-AS1	237.052	1.3468	0.45178	2.98113	0.00287	0.03166
OSR1	234.88	1.35139	0.55839	2.42016	0.01551	0.09727
0.76	43.4971	1.3545	0.52785	2.56608	0.01029	0.0741
HS6ST2	95.7321	1.35725	0.41818	3.24562	0.00117	0.01758
MASP1	878.546	1.35859	0.51932	2.6161	0.00889	0.06737
SAP25	23.7671	1.35865	0.44114	3.07986	0.00207	0.02535
PPP1R3C	110.434	1.35879	0.41894	3.24335	0.00118	0.01771
LYZ	450.542	1.35934	0.40103	3.38962	0.0007	0.01272
TCF21	188.366	1.36126	0.51805	2.62763	0.0086	0.06593
PLP1	47.8852	1.36246	0.53072	2.5672	0.01025	0.07392
0.204	72.4621	1.36311	0.25679	5.30832	1.11E-07	2.80E-05
C3orf80	13.1996	1.3643	0.53405	2.55462	0.01063	0.07574
PTCHD1	167.479	1.36443	0.46438	2.93815	0.0033	0.03461

S100A6	991.54	1.3674	0.32574	4.19782	2.69E-05	0.00134
FXVD6	903.547	1.37323	0.42156	3.25751	0.00112	0.01715
ARHGAP6	323.339	1.37478	0.34515	3.98319	6.80E-05	0.00256
GJC2	26.3802	1.37689	0.50657	2.71804	0.00657	0.05473
CPNE5	64.2624	1.37792	0.30702	4.48801	7.19E-06	0.00051
FZD7	84.1601	1.37857	0.50115	2.75084	0.00594	0.05127
0.157	21.5437	1.38095	0.53781	2.56773	0.01024	0.07392
REEP1	194.746	1.38287	0.37818	3.65665	0.00026	0.00645
FBXO32	977.046	1.38297	0.49036	2.82033	0.0048	0.04409
TMEM200B	361.932	1.38324	0.41821	3.3075	0.00094	0.01543
0.205	25.8973	1.3838	0.34194	4.04689	5.19E-05	0.00209
COL13A1	81.5475	1.38793	0.44666	3.10732	0.00189	0.02391
0.239	71.6932	1.38886	0.46473	2.98851	0.0028	0.03115
ADCY4	499.021	1.38952	0.29782	4.66558	3.08E-06	0.0003
C20orf203	18.1171	1.39051	0.52842	2.63147	0.0085	0.06551
GUCA1B	62.0703	1.39163	0.33696	4.12993	3.63E-05	0.00165
0.263	48.4397	1.39195	0.39371	3.5355	0.00041	0.00873
UBE2CP5	48.3795	1.39768	0.51978	2.689	0.00717	0.05829
ATP5F1E	1813.08	1.40004	0.40788	3.43249	0.0006	0.01136
SPARCL1	15390.5	1.40059	0.3997	3.50408	0.00046	0.00943
GSTM2	1230.1	1.40701	0.25048	5.6172	1.94E-08	7.24E-06
IL17RB	669.704	1.40733	0.33036	4.26006	2.04E-05	0.00109
0.125	58.7789	1.41671	0.2828	5.00962	5.45E-07	9.22E-05
MAMDC2	467.703	1.41697	0.46451	3.05048	0.00228	0.02702
RASA4	659.705	1.41974	0.39326	3.61014	0.00031	0.00719
HSD17B6	86.8548	1.41975	0.54035	2.62745	0.0086	0.06593
CLDN5	122.431	1.42166	0.40687	3.49417	0.00048	0.00968
FABP5	328.604	1.4255	0.41088	3.46943	0.00052	0.01032
CORO6	99.3559	1.42657	0.38737	3.68274	0.00023	0.00609
IGFBP3	6548.86	1.42676	0.51711	2.75912	0.0058	0.05032
PGF	67.2316	1.43098	0.49588	2.88575	0.0039	0.03852
DMD	1245.78	1.43457	0.41546	3.45299	0.00055	0.01073
BNC2	1138.15	1.43489	0.37606	3.81555	0.00014	0.0042
PDE11A	63.8354	1.43598	0.3554	4.04046	5.33E-05	0.00211
A2M	41917.7	1.43648	0.27598	5.20503	1.94E-07	4.21E-05
ITGA10	95.6351	1.44312	0.31774	4.54178	5.58E-06	0.00044
GABBR2	35.4947	1.44341	0.55838	2.58498	0.00974	0.07147
KCNE4	355.583	1.45099	0.39254	3.69638	0.00022	0.00591
HNRNPK-A	58.5475	1.4523	0.36231	4.00845	6.11E-05	0.00235
SHISAL1	528.012	1.45381	0.51176	2.84082	0.0045	0.04237
0.254	18.4012	1.45468	0.53506	2.71874	0.00655	0.05469
0.47	27.2597	1.45517	0.53247	2.73287	0.00628	0.0532
0.2	78.3955	1.45547	0.45696	3.18508	0.00145	0.02013
0.122	117.876	1.45737	0.38382	3.79701	0.00015	0.00443
LRRN2	50.3765	1.46067	0.43545	3.35439	0.0008	0.0139
EGFL8	180.246	1.46482	0.279	5.25021	1.52E-07	3.55E-05
0.206	127.396	1.46909	0.32524	4.51701	6.27E-06	0.00047
TRHDE-AS1	53.4724	1.47244	0.53682	2.74289	0.00609	0.05224
PODC2	64.509	1.4728	0.4169	3.53272	0.00041	0.00879
SYNPO2	5635.86	1.47538	0.49323	2.99124	0.00278	0.03098
RDH5	80.7804	1.47936	0.33717	4.38759	1.15E-05	0.00072
PRIMA1	119.579	1.47948	0.52202	2.83415	0.00459	0.04295
MEIS2	423.897	1.49086	0.32687	4.56102	5.09E-06	0.00041
CDON	334.944	1.4949	0.41888	3.56882	0.00036	0.00794
0.26	16.2859	1.50256	0.54348	2.76467	0.0057	0.04972
0.65	51.3001	1.50877	0.39192	3.84973	0.00012	0.00378

TNS1	9347.1	1.50908	0.53248	2.83407	0.0046	0.04295
ATP2B2	170.141	1.50936	0.43349	3.48187	0.0005	0.00998
CD74	15668.2	1.51028	0.33071	4.56683	4.95E-06	0.0004
GABBR1	1840.34	1.51411	0.23598	6.4162	1.40E-10	1.15E-07
KLKB1	25.9809	1.517	0.42841	3.54096	0.0004	0.00866
POSTN	4048.11	1.5187	0.52487	2.89348	0.00381	0.03798
MYOZ2	128.627	1.51945	0.36284	4.18768	2.82E-05	0.00138
MMP28	86.594	1.52168	0.5524	2.75467	0.00588	0.05083
STEAP4	311.316	1.52619	0.48403	3.15308	0.00162	0.02155
LAT	97.4524	1.52692	0.30315	5.03681	4.73E-07	8.28E-05
PDLIM7	2797.06	1.5323	0.34932	4.38657	1.15E-05	0.00072
RASGRP2	208.793	1.53321	0.31628	4.84764	1.25E-06	0.00016
0.16	36.7962	1.53768	0.49591	3.10074	0.00193	0.02423
STX1B	23.1561	1.53838	0.33267	4.62432	3.76E-06	0.00033
FAM153A	34.9018	1.53886	0.46306	3.32322	0.00089	0.01492
SOD3	537.375	1.54349	0.43124	3.57915	0.00034	0.00779
ZNG1DP	65.8187	1.54561	0.62721	2.46427	0.01373	0.09009
SUSD3	57.0243	1.54579	0.48731	3.17211	0.00151	0.02068
0.215	25.7652	1.54691	0.38871	3.97959	6.90E-05	0.00259
RCN1P2	80.9579	1.54747	0.33649	4.59886	4.25E-06	0.00036
VXN	26.9117	1.54758	0.52116	2.96951	0.00298	0.03235
0.55	21.4119	1.54792	0.33378	4.63751	3.53E-06	0.00032
0.85	27.2471	1.55084	0.41933	3.69839	0.00022	0.0059
HOXD3	227.179	1.5519	0.39954	3.88423	0.0001	0.00341
DSCAML1	73.8031	1.55727	0.54491	2.85786	0.00427	0.04111
WNT9B	23.6594	1.55985	0.58741	2.65545	0.00792	0.06241
OPCML	30.385	1.56462	0.58543	2.67261	0.00753	0.06017
0.62	59.3784	1.56547	0.32679	4.7905	1.66E-06	0.00019
0.245	44.7598	1.5659	0.44542	3.51553	0.00044	0.00915
MYOZ3	57.1865	1.56926	0.3437	4.56577	4.98E-06	0.0004
0.232	28.3311	1.56971	0.52601	2.98419	0.00284	0.03142
PTGDS	2163.26	1.57605	0.28973	5.43979	5.33E-08	1.67E-05
0.2	190.791	1.57626	0.55817	2.82399	0.00474	0.04378
KCNG1	423.197	1.57682	0.46006	3.42741	0.00061	0.01154
CLIC6	62.4807	1.58057	0.51161	3.08937	0.00201	0.02485
CRADD-AS	83.0622	1.58274	0.65426	2.41913	0.01556	0.09736
RAMP3	73.4476	1.58342	0.54738	2.8927	0.00382	0.03804
PRRT2	280.567	1.58496	0.44181	3.58743	0.00033	0.00764
RASA4B	325.709	1.58543	0.37563	4.22072	2.44E-05	0.00124
ITIH4	28.0072	1.58617	0.2645	5.99694	2.01E-09	1.02E-06
ZCCHC12	782.166	1.60366	0.45767	3.50396	0.00046	0.00943
EGFL7	508.158	1.60457	0.33262	4.82402	1.41E-06	0.00018
HEXD-IT1	17.4601	1.60549	0.42766	3.7541	0.00017	0.00498
LINC02145	20.0338	1.60739	0.52087	3.08597	0.00203	0.02503
PMEL	67.5209	1.61251	0.57838	2.78797	0.0053	0.04715
SLC6A1	96.3389	1.61298	0.39127	4.12247	3.75E-05	0.00169
0.179	34.5159	1.61441	0.45164	3.57452	0.00035	0.00787
CASQ1	19.1403	1.61472	0.53899	2.9958	0.00274	0.03068
PNPLA7	387.545	1.61486	0.55665	2.90104	0.00372	0.03734
LINC00578	32.3777	1.61869	0.52063	3.10907	0.00188	0.02383
0.249	184.737	1.62076	0.38169	4.24633	2.17E-05	0.00115
0.26	34.1721	1.6217	0.30137	5.38104	7.41E-08	2.15E-05
C7	316.409	1.62668	0.51776	3.14177	0.00168	0.02203
PLIN1	29.7822	1.62817	0.39184	4.15518	3.25E-05	0.00152
PLVAP	766.902	1.62931	0.39314	4.1443	3.41E-05	0.00158
AKR1C2	34.0731	1.63115	0.53255	3.06291	0.00219	0.02633

LYG2	22.4354	1.63264	0.6184	2.64009	0.00829	0.06431
ZNF32-AS2	17.9625	1.63274	0.61542	2.65307	0.00798	0.06272
STRC	21.745	1.63513	0.44669	3.66057	0.00025	0.00644
RFLNA	20.1308	1.64424	0.51208	3.21089	0.00132	0.01903
MYO15A	27.8869	1.64908	0.54779	3.01043	0.00261	0.02971
0.221	24.791	1.65139	0.35491	4.65297	3.27E-06	0.00031
CLDN1	219.951	1.65231	0.41784	3.95445	7.67E-05	0.00276
CDH19	51.3963	1.65317	0.60584	2.7287	0.00636	0.05353
ITGA11	785.308	1.65612	0.42777	3.87154	0.00011	0.00353
TACR2	89.7539	1.65702	0.62594	2.64725	0.00811	0.0635
MAS1	19.3282	1.65826	0.54998	3.01511	0.00257	0.02939
UNC5A	12.958	1.65949	0.55432	2.99372	0.00276	0.03083
TPM1	5890.14	1.66477	0.40312	4.12973	3.63E-05	0.00165
LINC02613	21.4223	1.66673	0.53552	3.11233	0.00186	0.02369
TSPAN2	206.619	1.66776	0.45457	3.66884	0.00024	0.00632
LRCOL1	17.5705	1.66798	0.4438	3.75838	0.00017	0.00493
0.161	19.8697	1.67214	0.50548	3.30804	0.00094	0.01543
ADH1B	884.238	1.67335	0.5163	3.24106	0.00119	0.01782
MSRB3	1066.33	1.68119	0.4538	3.70471	0.00021	0.00581
LINC02207	30.4108	1.68254	0.58906	2.85632	0.00429	0.0412
LCNL1	67.686	1.68439	0.47149	3.57247	0.00035	0.00791
ADGRB1	69.5289	1.68656	0.50241	3.35694	0.00079	0.01382
AJM1	85.7137	1.68721	0.41462	4.06926	4.72E-05	0.00197
0.137	40.4447	1.69514	0.40873	4.14734	3.36E-05	0.00156
PDE1B	51.9128	1.6979	0.37419	4.53755	5.69E-06	0.00044
IRAG1	3128.15	1.70361	0.35577	4.78848	1.68E-06	0.00019
PDE2A	245.767	1.70394	0.36712	4.64133	3.46E-06	0.00032
FAM110D	23.3399	1.70567	0.50609	3.37029	0.00075	0.01335
SIGLEC6	26.5257	1.70618	0.48345	3.52918	0.00042	0.00886
PDZD7	33.7088	1.70951	0.46914	3.6439	0.00027	0.00664
0.8	87.2353	1.71283	0.57375	2.98532	0.00283	0.03132
SUPT20HL1	14.5067	1.72092	0.65952	2.60934	0.00907	0.06825
KCNN2	79.4251	1.72268	0.48659	3.54029	0.0004	0.00866
CAPN6	592.198	1.72328	0.4951	3.48066	0.0005	0.01
EMCN	357.367	1.72599	0.37766	4.57018	4.87E-06	0.0004
MS4A2	75.5868	1.72998	0.40735	4.24696	2.17E-05	0.00115
0.78	22.9502	1.73319	0.70864	2.44579	0.01445	0.09314
0.64	275.836	1.73538	0.61976	2.80008	0.00511	0.04591
PSORS1C1	26.1062	1.73821	0.71359	2.43586	0.01486	0.09438
SYPL2	44.8985	1.73993	0.52854	3.29197	0.00099	0.01596
MUC3A	19.6482	1.75408	0.53675	3.26798	0.00108	0.01675
0.45	29.3091	1.7541	0.54203	3.23614	0.00121	0.01801
NTN5	20.947	1.76089	0.4193	4.1996	2.67E-05	0.00133
AGAP11	30.2453	1.76953	0.6537	2.70694	0.00679	0.05614
TSPAN18	433.824	1.76982	0.40955	4.32135	1.55E-05	0.00089
MUC20P1	27.6721	1.77407	0.63933	2.77488	0.00552	0.04863
COL12A1	11866.9	1.78732	0.46986	3.80392	0.00014	0.00435
INSL5	23.3782	1.81153	0.67978	2.66489	0.0077	0.06114
TBX18	23.1164	1.81241	0.67232	2.69577	0.00702	0.05766
MROH7	55.821	1.81329	0.49659	3.65148	0.00026	0.0065
GALNT15	92.1086	1.8144	0.68724	2.64014	0.00829	0.06431
HOXD4	123.586	1.8197	0.51863	3.50868	0.00045	0.00933
GDNF-AS1	74.1986	1.82723	0.41603	4.39209	1.12E-05	0.00071
CLEC4F	24.6494	1.8296	0.54751	3.34168	0.00083	0.01434
STAB2	85.966	1.83588	0.43638	4.20705	2.59E-05	0.0013
SMC2-DT	24.5701	1.83727	0.55071	3.3362	0.00085	0.01449

TNNT3	10.862	1.84085	0.63562	2.89615	0.00378	0.0378
RGS11	102.616	1.84558	0.47465	3.88832	0.0001	0.00336
P2RX1	14.9345	1.84669	0.55959	3.30005	0.00097	0.01568
RASD2	50.5421	1.8521	0.46555	3.97829	6.94E-05	0.00259
GPIHBP1	13.804	1.8621	0.61284	3.03848	0.00238	0.02778
LINC02884	25.8425	1.87994	0.66668	2.81985	0.0048	0.04412
0.241	139.005	1.88071	0.42431	4.43241	9.32E-06	0.00062
CLU	3779.68	1.88363	0.38643	4.87448	1.09E-06	0.00015
0.102	54.1744	1.88907	0.46433	4.06842	4.73E-05	0.00197
PPP1R12B	3541.92	1.89037	0.50255	3.76158	0.00017	0.00489
C14orf39	19.141	1.89336	0.64692	2.92675	0.00343	0.03553
0.242	17.4829	1.90919	0.68959	2.76859	0.00563	0.04934
TPM2	5032.52	1.91136	0.43853	4.35858	1.31E-05	0.0008
ASB2	194.273	1.91597	0.51769	3.70102	0.00021	0.00587
GPAA1P2	20.9203	1.94351	0.72447	2.68265	0.0073	0.05902
ACTN2	30.31	1.9491	0.50943	3.82606	0.00013	0.00407
PRDM8	104.455	1.95584	0.50793	3.85063	0.00012	0.00378
HDC	58.1441	1.96259	0.40866	4.80252	1.57E-06	0.00019
SELP	148.611	1.96523	0.5041	3.89847	9.68E-05	0.00325
CHRM2	19.5666	1.97275	0.60478	3.26195	0.00111	0.01696
SNTG2	12.4874	1.9755	0.6692	2.95203	0.00316	0.03357
CPA3	171.795	1.97879	0.46751	4.23261	2.31E-05	0.00119
LINC01579	73.2365	1.99663	0.41456	4.81629	1.46E-06	0.00018
MUSTN1	22.8242	2.00709	0.61391	3.26934	0.00108	0.01675
AOC3	559.618	2.01466	0.53946	3.73456	0.00019	0.00527
KCNMB1	573.951	2.01713	0.63106	3.19643	0.00139	0.01969
CAMK2A	95.8975	2.0239	0.41448	4.88304	1.04E-06	0.00014
KLF17	14.3962	2.02431	0.72979	2.77383	0.00554	0.04872
SCG2	182.464	2.02997	0.4371	4.64417	3.41E-06	0.00031
ACKR1	178.523	2.03193	0.67271	3.02052	0.00252	0.02897
VAT1L	67.5814	2.03948	0.69937	2.91616	0.00354	0.03626
0.181	24.9506	2.04657	0.81798	2.50199	0.01235	0.08373
SVIL2P	32.2544	2.04954	0.58256	3.51815	0.00043	0.00908
IL17B	17.8932	2.0498	0.66706	3.07291	0.00212	0.02577
NPR1	170.628	2.05633	0.53712	3.82844	0.00013	0.00405
SERPINF2	22.3009	2.05673	0.66974	3.07094	0.00213	0.02585
VEGFD	13.8498	2.05902	0.70382	2.9255	0.00344	0.03561
SCN7A	51.6752	2.06178	0.5626	3.66474	0.00025	0.00638
ACTA2-AS1	166.935	2.0631	0.54302	3.79931	0.00015	0.00441
KCNMA1	1573.59	2.07793	0.47056	4.41588	1.01E-05	0.00065
LINC03095	13.1572	2.08291	0.70567	2.95168	0.00316	0.03357
KANK3	103.111	2.09991	0.44137	4.75773	1.96E-06	0.00022
LINC00891	73.2389	2.10529	0.44299	4.75242	2.01E-06	0.00022
CCDC80	7474.99	2.10647	0.52524	4.01053	6.06E-05	0.00233
LMO3	259.363	2.11588	0.51608	4.09989	4.13E-05	0.0018
MYL9	7337.73	2.11849	0.46763	4.53029	5.89E-06	0.00045
0.171	24.3823	2.12211	0.82914	2.5594	0.01049	0.07514
DIO3OS	620.46	2.12375	0.31823	6.67362	2.50E-11	3.08E-08
MMP23B	82.7415	2.12535	0.66859	3.17885	0.00148	0.02039
PRICKLE4	5.73408	2.13469	0.73039	2.92266	0.00347	0.0358
NEXN	500.946	2.14229	0.56545	3.78862	0.00015	0.00454
FXYD1	254.37	2.15912	0.45737	4.72073	2.35E-06	0.00024
DDTL	42.306	2.16807	0.73047	2.96807	0.003	0.0324
LINC01537	15.1342	2.17282	0.60572	3.58715	0.00033	0.00764
MEOX2	38.4039	2.1857	0.6841	3.19499	0.0014	0.01976
FXYD2	23.0166	2.19532	0.55447	3.9593	7.52E-05	0.00273

TRDN	44.1032	2.19687	0.66054	3.32589	0.00088	0.01483
CCL14	394.31	2.19911	0.54961	4.0012	6.30E-05	0.00241
CYP7A1	38.9399	2.20229	0.60622	3.6328	0.00028	0.00683
MYLK	6934.33	2.2084	0.44056	5.01274	5.37E-07	9.15E-05
ADAMTSL5	156.971	2.21482	0.4381	5.05556	4.29E-07	7.78E-05
PTGIS	580.152	2.21825	0.54526	4.06827	4.74E-05	0.00197
NPIPB3	916.737	2.22502	0.37301	5.96509	2.45E-09	1.21E-06
ASIC3	33.4082	2.24279	0.5081	4.41404	1.01E-05	0.00066
GABRG1	17.9254	2.25643	0.68494	3.29436	0.00099	0.01589
RERG	1355.74	2.26268	0.50881	4.44699	8.71E-06	0.0006
GRIA2	169.434	2.27789	0.47245	4.82142	1.43E-06	0.00018
ADIRF	235.588	2.28226	0.58477	3.90287	9.51E-05	0.00322
PAPPA2	55.8082	2.29007	0.5743	3.98759	6.67E-05	0.00252
KY	34.4176	2.31456	0.72483	3.19327	0.00141	0.01981
LMOD1	2240.33	2.31599	0.52799	4.38645	1.15E-05	0.00072
LINC01750	51.0769	2.32462	0.48398	4.80311	1.56E-06	0.00019
C3	4761.41	2.32734	0.71133	3.27183	0.00107	0.01671
0.79	11.7132	2.33287	0.77512	3.00969	0.00262	0.02974
0.25	37.3467	2.33348	0.93129	2.50563	0.01222	0.08324
TEX15	91.4452	2.33525	0.57837	4.03763	5.40E-05	0.00213
NHEG1	10.9206	2.33969	0.95777	2.44285	0.01457	0.09363
NCAM1	924.709	2.35756	0.53357	4.41844	9.94E-06	0.00065
AQP1	1002.05	2.36068	0.40322	5.85455	4.78E-09	2.20E-06
0.272	300.317	2.36148	0.4778	4.94243	7.72E-07	0.00012
ITPRID1	33.4321	2.36346	0.52234	4.52476	6.05E-06	0.00046
PCP4	147.419	2.37017	0.83819	2.82772	0.00469	0.04347
BTNL9	81.4044	2.37089	0.49375	4.80183	1.57E-06	0.00019
TCN1	55.5908	2.37227	0.86931	2.72892	0.00635	0.05353
ADAMTS14	130.439	2.39731	0.68072	3.52174	0.00043	0.00903
TNFAIP8L3	165.425	2.40006	0.51551	4.6557	3.23E-06	0.0003
CASQ2	41.3624	2.40107	0.61139	3.92724	8.59E-05	0.00299
FABP4	138.999	2.40362	0.65415	3.6744	0.00024	0.00624
NPIPB12	1335.74	2.40396	0.36936	6.50849	7.59E-11	7.50E-08
OR7D2	11.4625	2.40859	0.98094	2.4554	0.01407	0.09158
0.251	9.48339	2.40894	0.85967	2.80218	0.00508	0.0457
LINC02519	15.5675	2.41198	0.64254	3.7538	0.00017	0.00498
CFD	263.878	2.41967	0.55736	4.34133	1.42E-05	0.00084
ZBTB16	461.027	2.42196	0.59893	4.04381	5.26E-05	0.0021
CST4	17.6933	2.42373	0.76912	3.15133	0.00163	0.02161
TBX1	55.6054	2.42735	0.62125	3.90722	9.34E-05	0.00318
NFASC	536.224	2.43027	0.51136	4.7526	2.01E-06	0.00022
SORBS1	1832.88	2.43255	0.54438	4.46852	7.88E-06	0.00056
FAT3	85.8663	2.43541	0.63203	3.85329	0.00012	0.00376
PI15	1999.41	2.44648	0.60033	4.0752	4.60E-05	0.00194
PGM5	1128.04	2.4467	0.50023	4.89116	1.00E-06	0.00014
ITGB1BP2	59.346	2.44971	0.57352	4.27139	1.94E-05	0.00106
UQCRHL	20.5101	2.46218	0.48938	5.03121	4.87E-07	8.38E-05
PIGR	3874.75	2.46265	0.85749	2.87194	0.00408	0.03983
RPRM	45.276	2.46479	0.59105	4.17016	3.04E-05	0.00145
0.174	47.2987	2.46731	0.97566	2.52887	0.01144	0.07947
DCHS1-AS1	28.8349	2.48031	0.81723	3.03502	0.00241	0.02792
PLIN4	243.346	2.48295	0.74837	3.3178	0.00091	0.0151
LEFTY2	679.824	2.48628	0.97271	2.55604	0.01059	0.07559
SPTA1	34.6143	2.5203	0.71178	3.54084	0.0004	0.00866
ECRG4	92.5536	2.52152	0.61829	4.07821	4.54E-05	0.00193
0.218	25.0379	2.52335	0.83226	3.03194	0.00243	0.02816

FABP3	173.332	2.52807	0.52157	4.84701	1.25E-06	0.00016
NPIPB4	1569.6	2.55742	0.43847	5.83266	5.46E-09	2.45E-06
RYR3	245.035	2.57014	0.56103	4.58107	4.63E-06	0.00038
GREM1	170.385	2.57269	0.6682	3.85019	0.00012	0.00378
NEURL1	46.6745	2.6194	0.7078	3.70077	0.00021	0.00587
CHI3L1	131.057	2.64705	0.82952	3.19106	0.00142	0.01988
KCTD19	36.695	2.65837	0.55302	4.80701	1.53E-06	0.00019
PRUNE2	934.359	2.69546	0.53157	5.0708	3.96E-07	7.42E-05
KCNB1	242.59	2.69664	0.5499	4.9039	9.40E-07	0.00013
LIMS2	918.509	2.69702	0.4988	5.40702	6.41E-08	1.95E-05
LINC00173	25.8353	2.70587	0.62459	4.33226	1.48E-05	0.00086
KRT222	86.9598	2.7233	0.79097	3.44298	0.00058	0.011
C4BPA	281.241	2.75196	0.86378	3.18596	0.00144	0.02009
LCN10	48.0164	2.76994	0.89494	3.09512	0.00197	0.02459
RAB3C	77.6886	2.77651	0.59115	4.69683	2.64E-06	0.00026
PLK5	13.6351	2.80276	0.65706	4.26563	1.99E-05	0.00108
KCNQ4	27.443	2.80561	0.6905	4.06316	4.84E-05	0.00199
SLC8A2	57.8357	2.84884	0.73451	3.87855	0.00011	0.00347
CCL21	969.252	2.84991	0.59797	4.76602	1.88E-06	0.00021
SERTM2	421.35	2.8649	0.72652	3.94329	8.04E-05	0.00285
LINC01117	10.9335	2.86601	0.78361	3.65743	0.00025	0.00645
RSPO3	515.253	2.87237	0.54717	5.24946	1.53E-07	3.55E-05
KLHL38	22.1431	2.87899	0.73299	3.92776	8.57E-05	0.00299
HIF3A	214.533	2.89125	0.59193	4.88445	1.04E-06	0.00014
PDLIM3	628.618	2.89638	0.62567	4.62923	3.67E-06	0.00033
LGI4	75.415	2.91067	0.52877	5.50457	3.70E-08	1.31E-05
MIR137HG	22.0346	2.91657	0.89802	3.24777	0.00116	0.01752
PTGFR	272.542	2.93979	0.56249	5.22643	1.73E-07	3.93E-05
CNN1	3043.28	2.95343	0.75143	3.9304	8.48E-05	0.00297
HMCN2	390.56	2.9663	0.65963	4.49691	6.89E-06	0.0005
SLC24A2	38.4115	2.97177	0.76399	3.8898	0.0001	0.00335
PCP4L1	22.316	2.99303	0.68747	4.35372	1.34E-05	0.00081
0.256	11.295	3.00166	0.74261	4.04206	5.30E-05	0.00211
0.123	11.869	3.0018	0.54959	5.46185	4.71E-08	1.53E-05
CHRD1	716.316	3.00403	0.60376	4.97554	6.51E-07	0.0001
GATA5	13.2085	3.01395	0.79623	3.78527	0.00015	0.00457
LDB3	47.4531	3.04024	0.73777	4.12086	3.77E-05	0.00169
INMT	63.0704	3.08088	0.65548	4.70021	2.60E-06	0.00026
FIBIN	51.8865	3.11144	0.90508	3.43775	0.00059	0.01116
0.106	11.9044	3.16959	0.95082	3.33355	0.00086	0.01456
PGM5-AS1	23.0083	3.18096	0.98202	3.23921	0.0012	0.01788
EBF2	13.3446	3.18438	1.04903	3.03556	0.0024	0.02791
CXCL14	385.279	3.19526	0.96685	3.30481	0.00095	0.01549
SPEG	1069.36	3.19899	0.52059	6.14492	8.00E-10	5.10E-07
WSCD2	73.9789	3.20298	0.62907	5.0916	3.55E-07	6.82E-05
BCYRN1	128.584	3.22007	0.85031	3.78695	0.00015	0.00456
UNC5D	54.9334	3.22073	0.60466	5.32648	1.00E-07	2.60E-05
0.53	29.7021	3.22095	0.6209	5.18753	2.13E-07	4.58E-05
RPL36A-HN	673.483	3.23633	0.64842	4.99111	6.00E-07	9.89E-05
TAGLN	11668.6	3.24754	0.60663	5.35342	8.63E-08	2.40E-05
TPSB2	118.601	3.25707	0.63967	5.09177	3.55E-07	6.82E-05
SLITRK3	15.6861	3.26303	0.83999	3.88462	0.0001	0.00341
RPL23AP82	18.5027	3.28279	1.09341	3.00234	0.00268	0.03025
PRELP	899.083	3.28922	0.60961	5.39566	6.83E-08	2.02E-05
RSPO1	218.649	3.30248	0.59168	5.58155	2.38E-08	8.73E-06
LCN6	10.7434	3.34534	1.22756	2.7252	0.00643	0.05394

ARHGAP44	11.3638	3.36167	1.16439	2.88705	0.00389	0.03847
NCAM1-AS1	32.1939	3.39425	0.92915	3.65305	0.00026	0.0065
COMP	51.4978	3.39554	1.3759	2.46787	0.01359	0.0893
SLC2A4	50.2962	3.45099	0.6293	5.48385	4.16E-08	1.42E-05
0.262	58.1891	3.48325	0.75448	4.61678	3.90E-06	0.00034
TNXA	9.18236	3.4978	1.39732	2.50322	0.01231	0.08361
MCHR1	9.48958	3.49895	1.03393	3.38412	0.00071	0.01293
PTGER3	932.973	3.53313	0.69361	5.09383	3.51E-07	6.82E-05
HMGB1P5	27.9621	3.57463	0.79371	4.50369	6.68E-06	0.00049
0.178	64.2534	3.5893	0.82992	4.32485	1.53E-05	0.00088
FBXO40	9.60348	3.61185	1.09037	3.31251	0.00092	0.0153
CADM3-AS1	42.0216	3.61893	0.75318	4.80485	1.55E-06	0.00019
COL4A6	582.68	3.62219	0.58247	6.21869	5.01E-10	3.54E-07
MFAP5	1212.53	3.6495	0.74113	4.92422	8.47E-07	0.00012
0.214	13.3027	3.6534	1.0453	3.49509	0.00047	0.00966
PLA2G2A	66.9862	3.69511	1.49709	2.4682	0.01358	0.08927
ANGPT4	20.807	3.7152	0.73789	5.03487	4.78E-07	8.29E-05
0.113	12.9904	3.719	1.23165	3.01953	0.00253	0.02903
TPSAB1	380.824	3.73227	0.60986	6.11983	9.37E-10	5.73E-07
FBXL22	287.152	3.7453	0.64847	5.77558	7.67E-09	3.23E-06
KCNH2	191.39	3.76716	0.66699	5.64801	1.62E-08	6.29E-06
CTSG	31.5626	3.76735	0.71509	5.26835	1.38E-07	3.36E-05
HSPB3	16.5634	3.87185	1.2522	3.09203	0.00199	0.02471
MTND2P28	700.438	3.94104	1.04295	3.77873	0.00016	0.00466
CCL11	6.79187	3.9515	1.10085	3.5895	0.00033	0.00761
DCX	74.4024	3.99991	0.64241	6.22639	4.77E-10	3.50E-07
UGT2B17	10.5983	4.10176	1.17502	3.49081	0.00048	0.00975
IGSF9B	156.285	4.2222	0.69136	6.10712	1.01E-09	5.73E-07
PRLHR	22.3578	4.22856	0.94785	4.46122	8.15E-06	0.00057
ACTA2	31735.6	4.30057	0.61161	7.03159	2.04E-12	3.11E-09
ADCYAP1	33.6712	4.30903	0.66823	6.4484	1.13E-10	1.02E-07
HSPB7	223.48	4.38051	0.70904	6.17806	6.49E-10	4.42E-07
TCF23	291.906	4.43666	0.67526	6.5703	5.02E-11	5.84E-08
MYOCD	548.192	4.44724	0.59836	7.4324	1.07E-13	2.64E-10
FRMD7	12.3671	4.49159	1.11453	4.03004	5.58E-05	0.00218
CYP4F12	37.5705	4.51902	0.63815	7.08142	1.43E-12	2.35E-09
SFRP5	117.07	4.60738	0.86287	5.33961	9.31E-08	2.51E-05
LINC01551	31.0102	4.61851	0.75572	6.11142	9.87E-10	5.73E-07
0.217	10.1076	4.7546	1.0009	4.7503	2.03E-06	0.00022
PLXNB3	181.389	4.82006	0.76025	6.34009	2.30E-10	1.79E-07
JPH2	526.106	4.82788	0.64011	7.54222	4.62E-14	1.30E-10
0.101	7.21295	4.91602	1.48409	3.31247	0.00092	0.0153
TRIM63	11.4073	4.92197	1.62997	3.01967	0.00253	0.02903
RBFOX3	86.9639	5.09516	0.92839	5.48819	4.06E-08	1.41E-05
SGCA	38.2664	5.1645	0.97396	5.30257	1.14E-07	2.86E-05
GLB1L3	43.6087	5.2426	1.11539	4.70024	2.60E-06	0.00026
0.225	20.2408	5.2654	1.80824	2.9119	0.00359	0.03661
0.229	6.37267	5.36389	1.99108	2.69396	0.00706	0.05788
MYH11	18234.5	5.59933	0.72763	7.6953	1.41E-14	4.65E-11
0.72	10.0326	5.82582	2.41948	2.40788	0.01605	0.09919
0.177	19.7513	5.96915	1.25785	4.74551	2.08E-06	0.00022
0.3	15.1949	5.9814	1.46164	4.09225	4.27E-05	0.00184
0.15	10.3851	6.12067	2.12256	2.88363	0.00393	0.03872
0.148	22.169	6.18557	1.814	3.4099	0.00065	0.01205
0.63	29.1478	6.23554	1.12165	5.55924	2.71E-08	9.74E-06
0.222	9.53926	6.24523	2.55674	2.44266	0.01458	0.09365

	0.265	33.8262	6.28609	2.16059	2.90944	0.00362	0.03682
ACTG2		11376.4	6.37413	0.87191	7.31051	2.66E-13	5.85E-10
	0.112	12.4669	6.5012	2.14685	3.02825	0.00246	0.02845
	0.18	18.1971	6.54278	2.18575	2.99338	0.00276	0.03083
	0.5	21.6097	6.6258	1.2941	5.12002	3.05E-07	6.13E-05
CICP14		14.0794	6.70825	1.70299	3.93911	8.18E-05	0.00289
	0.208	19.7842	6.92777	1.63503	4.23709	2.26E-05	0.00118
	0.168	28.3831	7.53014	1.79485	4.19543	2.72E-05	0.00135
GAL3ST3		52.8902	7.80043	1.163	6.70719	1.98E-11	2.62E-08
	0.213	31.5441	7.83433	1.34412	5.82859	5.59E-09	2.46E-06
	0.27	37.133	7.89754	1.11424	7.08781	1.36E-12	2.35E-09
CRMA		76.8255	8.35101	1.29903	6.42867	1.29E-10	1.11E-07
CHRD2		392.963	8.59229	1.10234	7.79458	6.46E-15	2.56E-11
	0.166	67.9281	8.73746	1.35193	6.46295	1.03E-10	9.67E-08
DES		7702.74	9.32299	0.96516	9.65956	4.48E-22	2.95E-18
	0.191	136.292	9.77765	1.49135	6.55622	5.52E-11	6.06E-08
	0.186	135.808	9.89976	1.89532	5.22327	1.76E-07	3.95E-05
	0.154	11.1316	19.4325	2.9689	6.54535	5.94E-11	6.18E-08
C1GALT1P2		13.1823	19.6836	3.49035	5.63943	1.71E-08	6.49E-06
	0.162	52.0272	22.3941	1.61395	13.8754	8.93E-44	9.13E-40
	0.202	67.2862	22.9702	1.65576	13.8729	9.24E-44	9.13E-40

Supplementary Table 3. Down-regulated genes in IUA samples

Genes	baseMea	log2FoldC	lfcSE	stat	pvalue	padj	
	0.93	8.77704	-7.548	1.81684	-4.1545	3.26E-05	0.00152
	0.31	19.1089	-7.0977	1.85298	-3.8304	0.00013	0.00402
USP17L1	4.18538	-5.8595	2.39717	-2.4443	0.01451	0.09341	
H3C13	27.5421	-5.647	1.56259	-3.6139	0.0003	0.00713	
H2AC13	30.2672	-5.6417	1.14957	-4.9077	9.22E-07	0.00013	
H2AC16	8.46164	-5.5053	1.63466	-3.3679	0.00076	0.01341	
H2BC14	15.7545	-5.2548	1.64505	-3.1943	0.0014	0.01978	
H2BC13	23.5199	-4.9277	1.35587	-3.6344	0.00028	0.00681	
EGR3	592.652	-4.8579	0.67768	-7.1685	7.58E-13	1.50E-09	
H3C3	76.1134	-4.8208	1.41798	-3.3998	0.00067	0.01237	
H2AC14	127.373	-4.8182	1.95727	-2.4617	0.01383	0.09052	
H3C15	164.273	-4.7561	1.52254	-3.1238	0.00179	0.023	
EGR2	214.016	-4.7189	0.679	-6.9498	3.66E-12	5.16E-09	
H1-1	28.2221	-4.5325	0.84942	-5.336	9.50E-08	2.51E-05	
H2BC7	63.753	-4.4007	1.51632	-2.9022	0.00371	0.03722	
H2AC11	135.092	-4.2885	1.35208	-3.1718	0.00152	0.02068	
FOSB	2896.93	-4.1764	1.11687	-3.7394	0.00018	0.00523	
H2BC9	59.9578	-4.0407	0.79097	-5.1085	3.25E-07	6.42E-05	
EGR1	5882.11	-3.9131	0.67529	-5.7947	6.85E-09	2.94E-06	
FOS	15723.7	-3.9016	0.85093	-4.5851	4.54E-06	0.00038	
CCN1	3948.66	-3.8763	0.49687	-7.8015	6.12E-15	2.56E-11	
H2AC17	133.443	-3.7531	1.43189	-2.6211	0.00877	0.06676	
0.149	9.92491	-3.6664	1.46663	-2.4999	0.01242	0.08401	
NR4A1	3983.86	-3.6514	0.67426	-5.4155	6.11E-08	1.89E-05	
CXCL2	103.951	-3.4861	0.75553	-4.614	3.95E-06	0.00034	
ATF3	1177	-3.3641	0.55426	-6.0695	1.28E-09	6.86E-07	
H3C12	7.81529	-3.3193	1.02145	-3.2496	0.00116	0.01747	
H2BC6	70.8822	-3.3076	0.90432	-3.6575	0.00025	0.00645	
H2AC15	5.39419	-3.2743	1.02409	-3.1972	0.00139	0.01965	
H2AC7	37.4093	-3.1622	1.23559	-2.5593	0.01049	0.07514	
0.267	34.0761	-3.0741	1.22926	-2.5008	0.01239	0.08396	
H1-3	146.562	-3.0229	1.12577	-2.6852	0.00725	0.05874	
GDF15	76.903	-2.9897	0.69057	-4.3294	1.50E-05	0.00087	
0.248	8.01045	-2.9478	0.86038	-3.4262	0.00061	0.01156	
0.259	6.76662	-2.9447	0.53784	-5.4751	4.37E-08	1.47E-05	
DUSP2	323.048	-2.9289	0.63525	-4.6107	4.01E-06	0.00034	
H2AC8	218.51	-2.9286	1.18818	-2.4648	0.01371	0.08998	
H2BC8	60.1465	-2.8838	0.95431	-3.0219	0.00251	0.02889	
DUSP1	3955.68	-2.8744	0.50097	-5.7377	9.60E-09	3.95E-06	
TALAM1	117.464	-2.8024	0.63193	-4.4347	9.22E-06	0.00062	
LINC0259	11.1288	-2.7751	0.76092	-3.647	0.00027	0.00658	
CXCL3	47.4292	-2.7659	0.82976	-3.3333	0.00086	0.01456	
HBA1	643.161	-2.7537	0.74685	-3.687	0.00023	0.00605	
NR4A3	244.592	-2.7237	0.66318	-4.107	4.01E-05	0.00176	
MAFF	509.947	-2.6873	0.63729	-4.2168	2.48E-05	0.00126	
TNFRSF	204.025	-2.6741	0.65265	-4.0973	4.18E-05	0.00181	
0.172	62.9709	-2.6623	0.5956	-4.4699	7.82E-06	0.00056	
DUSP5	168.457	-2.6531	0.57348	-4.6263	3.72E-06	0.00033	
H2BC18	175.28	-2.6364	0.67615	-3.8992	9.65E-05	0.00325	
ZFP36	4270.17	-2.6125	0.5602	-4.6636	3.11E-06	0.0003	
CXCL8	314.436	-2.6047	0.71584	-3.6386	0.00027	0.00674	
H3C10	94.4118	-2.5634	0.56834	-4.5104	6.47E-06	0.00048	
HBB	1455.19	-2.54	0.51514	-4.9308	8.19E-07	0.00012	

H2AC18	437.227	-2.5384	0.82082	-3.0925	0.00198	0.02471
ALAS2	8.0513	-2.5276	0.96906	-2.6083	0.0091	0.06834
RNF223	16.7012	-2.5233	0.66438	-3.7979	0.00015	0.00442
0.69	66.5679	-2.5185	0.86644	-2.9067	0.00365	0.03699
CCL3	44.9708	-2.4789	0.63338	-3.9137	9.09E-05	0.00312
H2BC11	39.8807	-2.4648	0.61709	-3.9943	6.49E-05	0.00246
OR52N5	13.8812	-2.408	0.62162	-3.8738	0.00011	0.00352
JUNB	6664.01	-2.3479	0.55908	-4.1996	2.67E-05	0.00133
IGLC1	37.5622	-2.319	0.88936	-2.6075	0.00912	0.06843
OVOL1	24.612	-2.3161	0.7824	-2.9602	0.00307	0.03302
0.258	13.612	-2.3115	0.73456	-3.1468	0.00165	0.02186
H1-2	272.583	-2.3105	0.80193	-2.8812	0.00396	0.03899
CCL3L3	29.5793	-2.2819	0.54523	-4.1851	2.85E-05	0.00139
H2BC4	179.918	-2.2792	0.67612	-3.371	0.00075	0.01334
0.228	13.3174	-2.2759	0.80854	-2.8148	0.00488	0.04456
0.29	515.662	-2.2743	0.5699	-3.9907	6.59E-05	0.00249
GADD45I	483.207	-2.2638	0.45465	-4.9792	6.38E-07	0.0001
0.75	35.7498	-2.2583	0.81574	-2.7684	0.00563	0.04934
IL6	34.6228	-2.2397	0.67602	-3.3131	0.00092	0.0153
IER3	583.144	-2.2152	0.49093	-4.5122	6.42E-06	0.00048
ISM1	54.4701	-2.1806	0.55014	-3.9637	7.38E-05	0.0027
MT1X	292.407	-2.1546	0.52794	-4.0811	4.48E-05	0.00191
PLK3	135.031	-2.1454	0.44786	-4.7903	1.67E-06	0.00019
0.257	3.962	-2.1431	0.54884	-3.9049	9.43E-05	0.0032
SOCS3	821.016	-2.1214	0.65818	-3.2232	0.00127	0.01848
0.25	8.44349	-2.118	0.76259	-2.7774	0.00548	0.04831
UNC13C	9.10279	-2.0421	0.54897	-3.7199	0.0002	0.00553
MIR23AH	704.074	-2.0369	0.62334	-3.2677	0.00108	0.01675
AVPR1B	41.5443	-2.0358	0.68456	-2.9738	0.00294	0.03204
NAALADI	10.949	-2.0331	0.71995	-2.824	0.00474	0.04378
H4C15	200.214	-2.0024	0.55606	-3.6011	0.00032	0.00738
E2F2	59.7267	-1.9992	0.52861	-3.782	0.00016	0.00462
MTND5P	24.591	-1.985	0.77903	-2.548	0.01083	0.0766
JUN	5129.96	-1.9787	0.416	-4.7566	1.97E-06	0.00022
TAC1	8.73227	-1.9734	0.65484	-3.0135	0.00258	0.0295
FFAR2	6.10754	-1.973	0.67308	-2.9313	0.00337	0.03512
KRT34	13.4131	-1.9378	0.78237	-2.4769	0.01325	0.088
CCL4L2	50.2913	-1.9075	0.68007	-2.8049	0.00503	0.04554
IER2	1944.09	-1.9037	0.37633	-5.0585	4.23E-07	7.78E-05
OR52N1	12.9095	-1.901	0.51187	-3.7137	0.0002	0.00563
CSRN1P1	494.549	-1.9	0.43269	-4.3912	1.13E-05	0.00071
G0S2	44.4138	-1.8692	0.68884	-2.7135	0.00666	0.05527
0.264	64.5082	-1.8671	0.69266	-2.6955	0.00703	0.05767
IL1B	82.2103	-1.8639	0.6607	-2.8211	0.00479	0.04403
TRIB1	622.784	-1.8623	0.41311	-4.508	6.54E-06	0.00048
ULBP2	13.7442	-1.8516	0.72583	-2.551	0.01074	0.07629
MT1F	202.424	-1.8295	0.60053	-3.0465	0.00231	0.02729
CCDC14	10.4047	-1.8072	0.59534	-3.0355	0.0024	0.02791
UHRF1	219.726	-1.8071	0.53788	-3.3596	0.00078	0.01372
MISP	27.7051	-1.7901	0.58287	-3.0711	0.00213	0.02585
DUSP8	241.935	-1.7813	0.48787	-3.6512	0.00026	0.0065
TNFAIP3	1051.75	-1.773	0.46857	-3.7838	0.00015	0.00459
HSPA1B	3039.41	-1.7698	0.4595	-3.8514	0.00012	0.00378
CCL4	100.984	-1.7642	0.44928	-3.9268	8.61E-05	0.00299
H4C14	183.068	-1.7417	0.44024	-3.9563	7.61E-05	0.00275
0.46	36.4736	-1.7357	0.37328	-4.6498	3.32E-06	0.00031

AREG	19.3143	-1.7264	0.69148	-2.4966	0.01254	0.08458
0.114	17.877	-1.7127	0.55964	-3.0603	0.00221	0.02646
RND3	828.934	-1.698	0.40037	-4.241	2.23E-05	0.00116
H2BC15	51.3734	-1.6967	0.39701	-4.2737	1.92E-05	0.00106
GPRC5A	514.083	-1.6938	0.39239	-4.3166	1.58E-05	0.0009
RELT	51.2805	-1.6888	0.37224	-4.5368	5.71E-06	0.00044
GYPA	16.7762	-1.6845	0.60298	-2.7937	0.00521	0.04653
MIR924H	26.5494	-1.6762	0.46721	-3.5877	0.00033	0.00764
PWRN1	130.896	-1.6457	0.62933	-2.615	0.00892	0.06749
PIM1	539.651	-1.6214	0.36193	-4.4798	7.47E-06	0.00053
DNAJB1	1961.48	-1.6212	0.40985	-3.9557	7.63E-05	0.00275
KLK6	50.0352	-1.6205	0.55833	-2.9023	0.0037	0.03722
PPP1R15	1232	-1.6132	0.36571	-4.4111	1.03E-05	0.00066
ITGAD	59.1941	-1.6122	0.6573	-2.4528	0.01418	0.09196
PMAIP1	183.662	-1.6004	0.44286	-3.6138	0.0003	0.00713
ERRFI1	3237.11	-1.5805	0.54195	-2.9163	0.00354	0.03626
FRMD5	14.7742	-1.5794	0.59057	-2.6743	0.00749	0.05996
RND1	21.2318	-1.5779	0.55521	-2.842	0.00448	0.04231
SV2C	93.8572	-1.574	0.54099	-2.9095	0.00362	0.03682
MCL1	4050.36	-1.5706	0.33247	-4.7241	2.31E-06	0.00024
ESPL1	135.711	-1.5689	0.46105	-3.4029	0.00067	0.01225
MYBL2	293.906	-1.567	0.65077	-2.4079	0.01604	0.09919
APLN	41.2681	-1.5653	0.51912	-3.0152	0.00257	0.02939
CENPF	1045.27	-1.5652	0.52259	-2.9951	0.00274	0.03073
NOCT	87.9174	-1.5507	0.28495	-5.4421	5.27E-08	1.67E-05
MSI1	100.426	-1.5346	0.35986	-4.2644	2.00E-05	0.00108
FAM204C	12.9114	-1.5321	0.59674	-2.5675	0.01024	0.07392
ZNF695	37.3378	-1.5287	0.49174	-3.1087	0.00188	0.02383
GIN52	62.0047	-1.5195	0.40654	-3.7377	0.00019	0.00524
ZC3H12A	136.069	-1.5192	0.53216	-2.8548	0.00431	0.04134
WNT5A-/-	16.2434	-1.5158	0.55352	-2.7385	0.00617	0.05276
ADH7	10.2544	-1.5142	0.46998	-3.2218	0.00127	0.0185
E2F1	87.6887	-1.4897	0.46953	-3.1726	0.00151	0.02067
RNFT2	37.5582	-1.4874	0.32936	-4.5161	6.30E-06	0.00047
H2BC12	118.281	-1.4743	0.36664	-4.0213	5.79E-05	0.00224
NR4A2	498.291	-1.4708	0.43732	-3.3633	0.00077	0.0136
JUND	2199.4	-1.457	0.37528	-3.8823	0.0001	0.00343
TICRR	201.471	-1.4492	0.3565	-4.0651	4.80E-05	0.00198
BTG2	4125.64	-1.4374	0.43464	-3.3072	0.00094	0.01544
B3GNT7	45.6387	-1.4362	0.44054	-3.2601	0.00111	0.01704
GDF7	3621	-1.4308	0.32611	-4.3874	1.15E-05	0.00072
H2BC5	180.944	-1.4307	0.35036	-4.0835	4.44E-05	0.00189
VCAN	28539.7	-1.4294	0.52498	-2.7228	0.00647	0.05415
AURKB	88.9295	-1.4203	0.53018	-2.679	0.00738	0.05944
POLQ	121.62	-1.4177	0.34904	-4.0618	4.87E-05	0.002
0.21	109.12	-1.4137	0.32643	-4.3307	1.49E-05	0.00086
ZNF295-/-	23.2006	-1.4059	0.5547	-2.5346	0.01126	0.07864
BHLHE40	1195.67	-1.4009	0.3501	-4.0014	6.30E-05	0.00241
GPRIN1	71.6685	-1.4002	0.41751	-3.3536	0.0008	0.0139
PCSK9	14.7639	-1.3985	0.53548	-2.6117	0.00901	0.0679
KIF14	141.772	-1.3952	0.4193	-3.3273	0.00088	0.01478
CDCA2	113.337	-1.3939	0.42366	-3.2903	0.001	0.01602
CLEC1B	15.0971	-1.3898	0.54082	-2.5698	0.01018	0.07359
SPC24	97.5146	-1.3854	0.4015	-3.4505	0.00056	0.01079
CCNF	143.728	-1.3763	0.40726	-3.3793	0.00073	0.01311
SLC5A3	2603.99	-1.3752	0.36927	-3.724	0.0002	0.00545

PLK1	212.413	-1.3704	0.47113	-2.9087	0.00363	0.03684
H4C8	120.176	-1.3678	0.56031	-2.4411	0.01464	0.09384
HR	62.762	-1.3657	0.39065	-3.4959	0.00047	0.00964
KIFC1	238.699	-1.3502	0.53395	-2.5288	0.01145	0.07947
CDT1	109.297	-1.3476	0.55751	-2.4171	0.01564	0.09768
ZNF724	78.865	-1.3415	0.31836	-4.2138	2.51E-05	0.00127
POC1A	38.6491	-1.3386	0.40966	-3.2675	0.00109	0.01675
LDLR	858.226	-1.3369	0.36749	-3.6379	0.00027	0.00674
LMNB1	732.112	-1.3245	0.35431	-3.7383	0.00019	0.00524
CBX2	139.913	-1.3242	0.37388	-3.5419	0.0004	0.00864
SLC2A3	555.032	-1.32	0.4014	-3.2884	0.00101	0.01609
TCAF1P1	85.8847	-1.317	0.38049	-3.4614	0.00054	0.01053
WNT5A	2362.22	-1.3101	0.29917	-4.3791	1.19E-05	0.00074
KIF11	418.22	-1.3097	0.4178	-3.1348	0.00172	0.02235
LINC0099	42.6185	-1.3059	0.5424	-2.4077	0.01605	0.09919
DLGAP5	213.26	-1.3017	0.49563	-2.6263	0.00863	0.066
CYTOR	193.859	-1.3	0.2808	-4.6296	3.66E-06	0.00033
SLC7A5	202.306	-1.2993	0.43365	-2.9963	0.00273	0.03068
TUBB3	407.526	-1.299	0.53409	-2.4322	0.01501	0.09504
SPATA2L	84.2248	-1.2952	0.38802	-3.3379	0.00084	0.01444
CLSPN	219.21	-1.2925	0.38903	-3.3225	0.00089	0.01492
ASPM	797.303	-1.284	0.30939	-4.1501	3.32E-05	0.00155
ATP8A2	235.984	-1.2811	0.52858	-2.4238	0.01536	0.09653
0.6	30.2705	-1.2786	0.45156	-2.8316	0.00463	0.04312
RAD54L	118.574	-1.2763	0.40306	-3.1665	0.00154	0.02096
APOB	90.3891	-1.2736	0.28302	-4.5003	6.79E-06	0.00049
KIF15	213.244	-1.2706	0.45016	-2.8226	0.00476	0.04388
NAV3	304.838	-1.2695	0.30908	-4.1073	4.00E-05	0.00176
CCDC18	44.9017	-1.2688	0.39976	-3.1739	0.0015	0.02061
C17orf10	59.7597	-1.2612	0.39673	-3.1791	0.00148	0.02039
HELLS	516.519	-1.2597	0.36818	-3.4213	0.00062	0.0117
TTK	156.364	-1.259	0.40518	-3.1071	0.00189	0.02391
CDC45	105.076	-1.2567	0.45456	-2.7646	0.0057	0.04972
LRP8	118.448	-1.2555	0.30735	-4.0848	4.41E-05	0.00189
HBEGF	125.038	-1.253	0.47148	-2.6576	0.00787	0.06211
HASPIN	57.852	-1.2512	0.40499	-3.0894	0.00201	0.02485
PCSK5	1855.87	-1.2456	0.4406	-2.8269	0.0047	0.0435
ANLN	495.24	-1.2434	0.48913	-2.542	0.01102	0.07754
HROB	27.8576	-1.2349	0.33868	-3.6461	0.00027	0.00659
SBK1	151.301	-1.2325	0.48343	-2.5494	0.01079	0.07647
ZNF732	25.2107	-1.2312	0.44714	-2.7535	0.0059	0.05094
AATBC	20.7723	-1.2263	0.29245	-4.1933	2.75E-05	0.00135
CCN2	2144.95	-1.2232	0.38569	-3.1715	0.00152	0.02068
NFIA	3470.52	-1.2219	0.49317	-2.4776	0.01323	0.08791
CDCA4	158.004	-1.2175	0.22818	-5.3359	9.51E-08	2.51E-05
IGF1	14956	-1.211	0.35257	-3.4347	0.00059	0.01128
TEDC1	69.8992	-1.2094	0.31893	-3.7921	0.00015	0.00451
TULP4	1599.8	-1.207	0.39454	-3.0594	0.00222	0.02649
MIR4435	314.676	-1.1951	0.34574	-3.4568	0.00055	0.01066
SMARCA	37.6947	-1.1932	0.42417	-2.8129	0.00491	0.04473
ADGRV1	86.9254	-1.1819	0.46964	-2.5167	0.01185	0.08132
0.115	31.2787	-1.1817	0.37593	-3.1433	0.00167	0.02196
PRKDC	5167.37	-1.1788	0.29766	-3.9601	7.49E-05	0.00273
EPHA2	313.604	-1.1757	0.27089	-4.3402	1.42E-05	0.00085
TPX2	733.571	-1.1691	0.45104	-2.5921	0.00954	0.07054
MCM10	104.083	-1.1654	0.45751	-2.5472	0.01086	0.07675

CKAP2L	136.316	-1.1646	0.47581	-2.4475	0.01438	0.09281
CDKN2B	46.286	-1.1637	0.35508	-3.2773	0.00105	0.01647
SACS	955.218	-1.1637	0.31069	-3.7454	0.00018	0.00513
MYO16	56.4021	-1.1621	0.3829	-3.035	0.00241	0.02792
BTG3-AS	25.6172	-1.155	0.25598	-4.5121	6.42E-06	0.00048
EXO1	111.567	-1.1521	0.4228	-2.7251	0.00643	0.05394
RRM2	583.198	-1.1495	0.4165	-2.7598	0.00578	0.05023
GXYLT2	434.972	-1.1469	0.32664	-3.5113	0.00045	0.00925
EPOP	42.2654	-1.1457	0.35227	-3.2522	0.00115	0.01739
ST8SIA6	55.0863	-1.1442	0.47469	-2.4103	0.01594	0.09881
H2BC26	38.4967	-1.141	0.34587	-3.2989	0.00097	0.01572
IQANK1	32.5329	-1.1403	0.41769	-2.7301	0.00633	0.05342
LIPG	111.411	-1.1352	0.45967	-2.4696	0.01353	0.08913
RARA-AS	20.1858	-1.1341	0.28546	-3.9731	7.10E-05	0.00263
XKR5	21.907	-1.134	0.33943	-3.3408	0.00084	0.01436
ZNF704	6280.17	-1.1319	0.33871	-3.3417	0.00083	0.01434
BUB1	287.572	-1.1317	0.43103	-2.6257	0.00865	0.06608
SGO1	75.5424	-1.1306	0.41063	-2.7534	0.0059	0.05094
PFKFB3	869.212	-1.1305	0.30313	-3.7294	0.00019	0.00535
	0.194	65.0778	-1.1289	0.41108	-2.7462	0.00603
CREB5	395.938	-1.1288	0.27699	-4.0751	4.60E-05	0.00194
FAM83G	114.244	-1.1267	0.3618	-3.1142	0.00184	0.02356
	0.1	207.11	-1.1227	0.43306	-2.5925	0.00953
HMGA2-1	36.4436	-1.1209	0.36813	-3.0448	0.00233	0.02739
CBX5	2648.07	-1.1186	0.24558	-4.555	5.24E-06	0.00042
ADAMTS	220.956	-1.1131	0.39256	-2.8354	0.00458	0.04286
KNL1	636.157	-1.1085	0.26012	-4.2614	2.03E-05	0.00109
MELK	167.907	-1.1071	0.43181	-2.5638	0.01035	0.07449
ARHGAP	69.6023	-1.1035	0.28902	-3.8182	0.00013	0.00417
GRIA4	25.9337	-1.0988	0.44371	-2.4764	0.01327	0.08806
	0.103	44.4467	-1.0841	0.38254	-2.834	0.0046
NUAK2	164.55	-1.0834	0.29132	-3.719	0.0002	0.00555
AUNIP	57.567	-1.0797	0.3783	-2.8542	0.00431	0.04137
PKHD1	40.3214	-1.0771	0.43737	-2.4627	0.01379	0.0903
S1PR2	320.144	-1.0768	0.33798	-3.186	0.00144	0.02009
SKA1	77.7859	-1.0758	0.43569	-2.4693	0.01354	0.08915
EMP1	1373.86	-1.0757	0.39482	-2.7244	0.00644	0.054
	0.244	25.1176	-1.0735	0.41864	-2.5642	0.01034
ITPR2	1391.34	-1.0733	0.328	-3.2723	0.00107	0.01671
ESCO2	103.29	-1.0684	0.43579	-2.4517	0.01422	0.09207
PRR11	210.191	-1.0675	0.36949	-2.8892	0.00386	0.0383
GRM6	18.448	-1.0628	0.40872	-2.6003	0.00931	0.06943
ARHGAP	295.809	-1.0617	0.39889	-2.6615	0.00778	0.06164
MTFP1	39.7905	-1.0588	0.37937	-2.7909	0.00526	0.04683
	0.163	138.068	-1.0565	0.42771	-2.4703	0.0135
BRCA1	356.186	-1.055	0.2429	-4.3433	1.40E-05	0.00084
RECQL4	133.207	-1.0508	0.39061	-2.6902	0.00714	0.05827
NDNF	280.56	-1.0501	0.36762	-2.8564	0.00428	0.0412
ZNF516-1	70.4829	-1.0497	0.35629	-2.9463	0.00322	0.03396
SLC2A1	878.029	-1.0478	0.30157	-3.4744	0.00051	0.01019
MCM2	409.531	-1.0437	0.31576	-3.3053	0.00095	0.01549
TUBB	16615.3	-1.0434	0.32865	-3.1749	0.0015	0.02061
CIT	446.591	-1.0426	0.32297	-3.2281	0.00125	0.01834
MIDN	1047.93	-1.0416	0.27876	-3.7365	0.00019	0.00525
WNT4	591.391	-1.0406	0.42754	-2.4339	0.01494	0.09475
SMTNL2	61.8993	-1.0404	0.3924	-2.6515	0.00801	0.06287

ADGRL3	284.788	-1.0376	0.36447	-2.8469	0.00441	0.04196
CLSTN2	644.136	-1.0368	0.37822	-2.7412	0.00612	0.05243
LMNB2	1255.47	-1.0361	0.32639	-3.1745	0.0015	0.02061
JMJD1C-	16.8769	-1.0355	0.41188	-2.514	0.01194	0.0817
RNASEH	125.591	-1.0355	0.26588	-3.8945	9.84E-05	0.0033
RAB20	60.0883	-1.0347	0.3606	-2.8695	0.00411	0.04008
DTX1	487.921	-1.0338	0.41527	-2.4894	0.0128	0.08552
NFATC1	121.705	-1.0312	0.38065	-2.7091	0.00675	0.05588
KDM6B	1280.37	-1.0269	0.25683	-3.9984	6.38E-05	0.00242
KLF16	186.41	-1.0264	0.3327	-3.085	0.00204	0.02507
ZNF165	86.6872	-1.0259	0.24779	-4.1404	3.47E-05	0.0016
TACC3	470.95	-1.0238	0.40541	-2.5253	0.01156	0.07994
FNDC4	48.9592	-1.0224	0.32603	-3.1361	0.00171	0.02228
CDKN2B	81.6208	-1.0205	0.40884	-2.4961	0.01256	0.08462
EDARAD	71.7579	-1.0205	0.32552	-3.135	0.00172	0.02235
DRAXIN	29.1884	-1.0163	0.4122	-2.4656	0.01368	0.08984
TUBA1B	10633.1	-1.0133	0.34863	-2.9064	0.00366	0.03701
COL5A1	24759.3	-1.0112	0.30753	-3.2882	0.00101	0.01609
ZC3HAV	58.0371	-1.0086	0.34569	-2.9175	0.00353	0.03616
MMP16	1143.05	-1.0046	0.28866	-3.4803	0.0005	0.01
NUSAP1	517.547	-1.0038	0.40419	-2.4834	0.01301	0.08677
CENPE	609.766	-1.0029	0.29248	-3.4291	0.00061	0.01149
HSPA8	15417.7	-1.0006	0.24375	-4.105	4.04E-05	0.00177
ATAD2	452.568	-0.9927	0.2448	-4.0551	5.01E-05	0.00205
ZBTB2	191.29	-0.9917	0.2135	-4.6452	3.40E-06	0.00031
CDC6	207.408	-0.991	0.4108	-2.4123	0.01585	0.09848
INCENP	329.906	-0.9896	0.26259	-3.7686	0.00016	0.0048
RCC2	1663.35	-0.9893	0.24908	-3.9717	7.14E-05	0.00264
KIF23	307.667	-0.9891	0.40651	-2.4331	0.01497	0.09489
FANCB	70.3293	-0.985	0.26891	-3.6627	0.00025	0.0064
DEPDC1	79.5885	-0.9825	0.32707	-3.0039	0.00267	0.03016
GNG4	66.0566	-0.9823	0.36075	-2.7229	0.00647	0.05415
HAPSTR	1648.84	-0.9777	0.30971	-3.1567	0.0016	0.0214
ECT2	454.624	-0.9772	0.3214	-3.0404	0.00236	0.02771
ZNF367	196.461	-0.97	0.30699	-3.1597	0.00158	0.02123
ZBTB21	520.416	-0.97	0.24427	-3.9709	7.16E-05	0.00264
POLR1G	36.6922	-0.9696	0.24611	-3.9398	8.16E-05	0.00288
CHEK1	161.295	-0.9666	0.29347	-3.2938	0.00099	0.01591
WDR76	168.926	-0.9595	0.25319	-3.7898	0.00015	0.00453
SMAD7	356.658	-0.9566	0.21564	-4.4359	9.17E-06	0.00062
SYT16	67.3182	-0.9559	0.36456	-2.6222	0.00874	0.06656
KIAA121	469.736	-0.9555	0.39257	-2.4339	0.01494	0.09475
RPP38-D	14.5447	-0.9524	0.39583	-2.406	0.01613	0.09951
CCND2	3514.3	-0.9522	0.3812	-2.4978	0.0125	0.08437
0.86	68.0226	-0.952	0.34769	-2.738	0.00618	0.0528
KIF26B	695.366	-0.9518	0.37486	-2.539	0.01112	0.078
GPR183	85.8707	-0.9496	0.33048	-2.8733	0.00406	0.03972
XRCC2	126.342	-0.9486	0.29225	-3.2459	0.00117	0.01758
CENPU	183.467	-0.9477	0.32204	-2.9429	0.00325	0.03421
NRARP	88.6889	-0.9375	0.36313	-2.5818	0.00983	0.07196
GPAT2	19.4523	-0.9356	0.37859	-2.4712	0.01347	0.08894
AFG2A	195.479	-0.932	0.37137	-2.5097	0.01208	0.08248
AFF2	166.875	-0.9305	0.34166	-2.7234	0.00646	0.05412
SMAD6	256.159	-0.9303	0.2778	-3.3487	0.00081	0.01406
MEX3A	745.434	-0.9275	0.34969	-2.6523	0.00799	0.0628
POMK	564.516	-0.9267	0.28404	-3.2626	0.0011	0.01694

VMP1	2251.96	-0.9259	0.32628	-2.8379	0.00454	0.0427
GIN51	118.263	-0.9251	0.29496	-3.1363	0.00171	0.02228
TPM4	11077.3	-0.9247	0.25465	-3.6313	0.00028	0.00684
DTL	202.399	-0.9235	0.34518	-2.6755	0.00746	0.05984
CSF1	483.015	-0.9227	0.37174	-2.482	0.01307	0.08701
PHLDA1	901.491	-0.9209	0.31316	-2.9407	0.00328	0.03444
MASTL	214.173	-0.9192	0.21486	-4.2781	1.88E-05	0.00104
PDE4B	191.368	-0.9183	0.2502	-3.6702	0.00024	0.0063
CDC25A	117.386	-0.9167	0.29526	-3.1046	0.00191	0.02404
HSPH1	1964.53	-0.9154	0.31185	-2.9353	0.00333	0.03477
FGF1	145.314	-0.9077	0.31427	-2.8883	0.00387	0.03836
HSP90A	9703.99	-0.9047	0.23018	-3.9303	8.49E-05	0.00297
BLM	127.172	-0.9027	0.30707	-2.9398	0.00328	0.0345
FANCA	259.858	-0.8996	0.24616	-3.6548	0.00026	0.00647
FAM72A	69.1759	-0.898	0.27656	-3.2472	0.00117	0.01752
MEX3D	595.441	-0.8979	0.28799	-3.1177	0.00182	0.02335
MAP1B	1951.83	-0.8948	0.3336	-2.6823	0.00731	0.05903
CHAF1A	234.197	-0.8935	0.28977	-3.0836	0.00205	0.02514
0.23	71.2568	-0.8906	0.28972	-3.0741	0.00211	0.0257
SPATA3	92.6451	-0.8906	0.26827	-3.3199	0.0009	0.01501
PIM3	688.56	-0.89	0.34855	-2.5535	0.01067	0.07585
ADAMTS	4128.11	-0.8896	0.29634	-3.002	0.00268	0.03027
LINC0151	34.8609	-0.8863	0.31547	-2.8095	0.00496	0.04514
LINC0302	66.1385	-0.8849	0.34873	-2.5377	0.01116	0.07812
COLEC1	19.6254	-0.8813	0.35704	-2.4683	0.01358	0.08927
CKLF-CM	23.1396	-0.8813	0.36096	-2.4415	0.01463	0.0938
NEDD9	1281.01	-0.8768	0.26252	-3.34	0.00084	0.01438
MYADM	2116.87	-0.8766	0.31209	-2.8088	0.00497	0.04516
0.48	31.213	-0.8735	0.27359	-3.1928	0.00141	0.01981
CHML	492.503	-0.8698	0.24597	-3.536	0.00041	0.00873
ERCC6L	114.324	-0.8659	0.29802	-2.9055	0.00367	0.03704
ZGRF1	136.458	-0.8652	0.27821	-3.1101	0.00187	0.0238
RASGRP	259.943	-0.8632	0.25234	-3.4208	0.00062	0.01171
ARL5B	1351.67	-0.863	0.18133	-4.7593	1.94E-06	0.00022
PLK4	166.515	-0.8601	0.31657	-2.717	0.00659	0.05479
SPRY4	287.21	-0.8597	0.30798	-2.7915	0.00525	0.04678
SLC6A8	684.19	-0.8583	0.26282	-3.2657	0.00109	0.01681
UGDH	1017.68	-0.8576	0.18897	-4.5384	5.67E-06	0.00044
ZNF892	162.08	-0.8558	0.30197	-2.8339	0.0046	0.04295
AURKA	167.313	-0.8542	0.32638	-2.6173	0.00886	0.06721
ORC1	107.896	-0.854	0.32947	-2.592	0.00954	0.07054
CENPN	217.993	-0.8538	0.27893	-3.0611	0.00221	0.02644
SOX4	3580.96	-0.8521	0.258	-3.3026	0.00096	0.01556
TUBA1A	7317	-0.8506	0.25363	-3.3539	0.0008	0.0139
CENPI	109.02	-0.8495	0.2648	-3.208	0.00134	0.01916
0.117	25.0848	-0.8477	0.34615	-2.449	0.01432	0.09255
KRT19	2526.04	-0.8472	0.31334	-2.7038	0.00686	0.05654
ITPRIP	476.736	-0.8455	0.28606	-2.9558	0.00312	0.03329
PRECSIT	172.763	-0.844	0.24016	-3.5141	0.00044	0.00918
TEAD4	68.2933	-0.8439	0.32226	-2.6186	0.00883	0.06705
CCNA2	343.837	-0.8418	0.31397	-2.6811	0.00734	0.05917
H2BC21	312.882	-0.839	0.27122	-3.0934	0.00198	0.02468
WDHD1	187.334	-0.8386	0.21556	-3.8905	0.0001	0.00335
0.129	100.577	-0.8364	0.2978	-2.8085	0.00498	0.04516
WEE1	971.293	-0.8339	0.31491	-2.648	0.0081	0.06339
GAS2L3	159.001	-0.8293	0.28948	-2.8648	0.00417	0.04047

CACNA2I	48.3924	-0.826	0.33288	-2.4813	0.01309	0.08714
0.255	25.7317	-0.8247	0.33623	-2.4529	0.01417	0.09196
REL	457.076	-0.8244	0.29843	-2.7625	0.00574	0.04992
SPAG4	18.0628	-0.8235	0.29813	-2.7621	0.00574	0.04994
NF2	534.236	-0.8201	0.30705	-2.6709	0.00757	0.06037
QSER1	1411.8	-0.8197	0.226	-3.6269	0.00029	0.0069
ARK2C	133.716	-0.8181	0.30345	-2.6961	0.00702	0.05765
GRWD1	333.509	-0.8164	0.21589	-3.7816	0.00016	0.00462
SUV39H1	68.8929	-0.8164	0.23455	-3.4806	0.0005	0.01
DNA2	113.509	-0.8148	0.1782	-4.5723	4.82E-06	0.0004
PDS5B	3016.71	-0.8115	0.16269	-4.988	6.10E-07	9.97E-05
KL	141.155	-0.8112	0.21509	-3.7714	0.00016	0.00475
OGFRP1	87.1611	-0.8107	0.22906	-3.5391	0.0004	0.00868
KCNJ2	67.5391	-0.8106	0.23023	-3.5208	0.00043	0.00904
0.9	47.4463	-0.809	0.31585	-2.5612	0.01043	0.07486
RGS1	366.383	-0.8075	0.25958	-3.111	0.00186	0.02375
CHSY1	1130.14	-0.8075	0.20349	-3.9683	7.24E-05	0.00266
0.12	54.3239	-0.8067	0.26449	-3.0499	0.00229	0.02704
TSC22D2	668.56	-0.8049	0.20948	-3.8424	0.00012	0.00387
IRGQ	647.693	-0.8041	0.27521	-2.9218	0.00348	0.03583
CADM4	259.327	-0.804	0.28582	-2.8129	0.00491	0.04473
PCDHB1	252.307	-0.8038	0.27951	-2.8759	0.00403	0.03951
HMGB3	568.338	-0.8029	0.28828	-2.785	0.00535	0.04746
SCD	1115.66	-0.8014	0.24194	-3.3123	0.00093	0.0153
CKAP2	1091.33	-0.7977	0.2786	-2.8633	0.00419	0.04063
DNLZ	53.9968	-0.7975	0.24233	-3.2908	0.001	0.01601
DUSP4	386.203	-0.7971	0.30155	-2.6434	0.00821	0.06393
B3GNT5	268.027	-0.7963	0.21977	-3.6235	0.00029	0.00696
SUV39H2	182.309	-0.7957	0.17092	-4.6556	3.23E-06	0.0003
BRCA2	529.261	-0.7957	0.19563	-4.0675	4.75E-05	0.00197
STIL	231.455	-0.7889	0.26842	-2.9389	0.00329	0.03454
CCNE2	131.06	-0.7856	0.23216	-3.3839	0.00071	0.01293
ANP32E	774.37	-0.7854	0.15801	-4.9703	6.68E-07	0.0001
MCM4	921.698	-0.7851	0.25626	-3.0636	0.00219	0.0263
ENTPD7	414.653	-0.7838	0.19004	-4.1243	3.72E-05	0.00168
PTPRN2	204.162	-0.7835	0.26575	-2.9481	0.0032	0.03386
SPRY1	696.224	-0.7825	0.24821	-3.1526	0.00162	0.02155
FOXD2-A	31.1926	-0.7817	0.29533	-2.6469	0.00812	0.0635
POLD1	300.211	-0.7767	0.22076	-3.5182	0.00043	0.00908
ARHGAP	352.544	-0.776	0.25001	-3.1038	0.00191	0.02407
ARHGEF	272.42	-0.7755	0.25004	-3.1016	0.00192	0.02421
HMGCS1	631.479	-0.7724	0.25316	-3.0511	0.00228	0.02702
GIN5	178.553	-0.7719	0.27199	-2.8378	0.00454	0.0427
GRK6	311.345	-0.7695	0.16659	-4.6194	3.85E-06	0.00034
LINC0066	36.2718	-0.7675	0.31656	-2.4245	0.01533	0.09647
SYT7	90.4429	-0.7652	0.29271	-2.6142	0.00894	0.06753
DIAPH3	469.306	-0.7651	0.27024	-2.8312	0.00464	0.04313
PTP4A1	1190.22	-0.7649	0.26514	-2.885	0.00391	0.03859
NCAPD2	1072.11	-0.7634	0.19009	-4.0158	5.92E-05	0.00229
FANCD2	237.816	-0.7626	0.24601	-3.0999	0.00194	0.02427
THSD7B	71.0393	-0.7624	0.30601	-2.4914	0.01272	0.08527
RGS7	47.4785	-0.7622	0.31283	-2.4366	0.01483	0.09436
SIX4	291.381	-0.7613	0.30124	-2.5271	0.0115	0.07965
ATF5	154.559	-0.7607	0.308	-2.4698	0.01352	0.08911
KLF10	1607.35	-0.7605	0.21204	-3.5866	0.00034	0.00765
PPP1R15	953.416	-0.7573	0.20864	-3.6296	0.00028	0.00686

KNTC1	430.621	-0.7564	0.24395	-3.1008	0.00193	0.02423
SERTAD	215.445	-0.7561	0.2543	-2.9733	0.00295	0.03205
SKIL	1377.09	-0.755	0.16554	-4.5611	5.09E-06	0.00041
LATS2	415.127	-0.7544	0.25801	-2.924	0.00346	0.03569
POLA1	385.411	-0.754	0.18253	-4.1307	3.62E-05	0.00165
HSP90B1	15833.3	-0.7516	0.26413	-2.8455	0.00443	0.04208
FAM174E	317.275	-0.7504	0.20545	-3.6523	0.00026	0.0065
IRAK2	65.3877	-0.7495	0.29623	-2.5302	0.0114	0.07926
FBXO5	236.639	-0.7489	0.25189	-2.973	0.00295	0.03207
PRDM6	294.71	-0.7486	0.31014	-2.4137	0.01579	0.09834
MARCKS	3895.13	-0.7484	0.29612	-2.5274	0.01149	0.07963
FEN1	262.266	-0.747	0.26624	-2.8056	0.00502	0.04547
GAREM1	243.398	-0.7455	0.27323	-2.7286	0.00636	0.05353
HUWE1	11411.7	-0.7451	0.27283	-2.731	0.00631	0.05332
SLCO5A	49.3425	-0.744	0.2399	-3.1013	0.00193	0.02422
CAMK4	132.903	-0.7439	0.19703	-3.7754	0.00016	0.00471
FANCI	493.071	-0.7434	0.29533	-2.517	0.01184	0.0813
MYBL1	110.833	-0.7415	0.22272	-3.3292	0.00087	0.0147
TCF19	297.682	-0.7407	0.23384	-3.1674	0.00154	0.02093
UBASH3I	182.401	-0.7402	0.23929	-3.0935	0.00198	0.02468
RELB	143.121	-0.7381	0.2742	-2.692	0.0071	0.05809
SNHG16	792.39	-0.7376	0.16967	-4.3473	1.38E-05	0.00084
DEPDC1	450.023	-0.737	0.29475	-2.5005	0.0124	0.084
NSD2	1624.58	-0.7337	0.20746	-3.5368	0.00041	0.00871
TEAD2	1007.15	-0.7328	0.22427	-3.2675	0.00109	0.01675
ARID3A	180.619	-0.7301	0.24517	-2.9778	0.0029	0.03185
TLCD3A	175.43	-0.727	0.18891	-3.8482	0.00012	0.00379
PTPRG- A	44.2	-0.7242	0.29227	-2.4779	0.01321	0.08784
ALDH1A2	5531.31	-0.7232	0.29024	-2.4917	0.01271	0.08526
NACC1	804.09	-0.7232	0.20664	-3.4997	0.00047	0.00955
USP22	4354.57	-0.7221	0.20226	-3.5704	0.00036	0.00793
ATP2A2	5186.05	-0.7213	0.20653	-3.4923	0.00048	0.00972
DCUN1D	257.725	-0.7203	0.23396	-3.0789	0.00208	0.02541
SHROOM	298.009	-0.7198	0.27932	-2.5769	0.00997	0.07266
CHSY3	195.713	-0.7194	0.20833	-3.4532	0.00055	0.01073
ELAVL1	903.986	-0.7189	0.13569	-5.2982	1.17E-07	2.89E-05
FEM1A	53.3318	-0.7173	0.23409	-3.0643	0.00218	0.02627
ST6GAL2	537.118	-0.7171	0.28902	-2.4811	0.0131	0.08717
NCAPG2	324.081	-0.7117	0.21219	-3.3538	0.0008	0.0139
RHOB	2770.42	-0.7115	0.27579	-2.5797	0.00989	0.07226
SMC4	1355.72	-0.7112	0.28528	-2.493	0.01267	0.08507
PGRMC1	4971.21	-0.7102	0.27319	-2.5996	0.00933	0.06949
BEND3	167.7	-0.708	0.21425	-3.3044	0.00095	0.01549
PDIA4	3723.97	-0.7078	0.21953	-3.2243	0.00126	0.01845
PCDHA4	91.3297	-0.7067	0.22415	-3.1529	0.00162	0.02155
LIN7C	383.465	-0.7061	0.22283	-3.1686	0.00153	0.02086
CANX	13780.8	-0.706	0.21663	-3.2589	0.00112	0.0171
PLAU	468.946	-0.7056	0.26591	-2.6536	0.00796	0.06265
IFFO2	275.14	-0.7023	0.26732	-2.6274	0.0086	0.06593
APOLD1	227.387	-0.7015	0.25706	-2.7288	0.00636	0.05353
0.11	237.551	-0.6992	0.26102	-2.6786	0.00739	0.05947
RFC3	220.343	-0.6989	0.20421	-3.4227	0.00062	0.01165
TIGAR	135.694	-0.6983	0.21479	-3.251	0.00115	0.01741
SH3BP1	198.472	-0.6975	0.27607	-2.5267	0.01152	0.07971
FASN	1935.48	-0.6966	0.21575	-3.2286	0.00124	0.01834
MAP2K3	280.74	-0.6952	0.26809	-2.5932	0.00951	0.07043

0.61	54.146	-0.6945	0.26089	-2.6619	0.00777	0.0616
HSP90A	16690.7	-0.6919	0.169	-4.094	4.24E-05	0.00183
ZSWIM6	553.983	-0.6917	0.16803	-4.1165	3.85E-05	0.00171
SMC2	512.768	-0.6916	0.24484	-2.8248	0.00473	0.04371
PPM1L	578.563	-0.6911	0.22074	-3.1307	0.00174	0.02261
TOP2B	9608.03	-0.69	0.24705	-2.7928	0.00523	0.04664
PET117	66.4137	-0.6889	0.23308	-2.9555	0.00312	0.0333
ARF6	1303.94	-0.6888	0.16628	-4.1422	3.44E-05	0.00159
SINHCAF	893.661	-0.6871	0.1974	-3.4808	0.0005	0.01
CCDC18	116.085	-0.686	0.22558	-3.0411	0.00236	0.02766
DUSP10	124.073	-0.6855	0.26079	-2.6286	0.00857	0.06582
BRIP1	454.458	-0.6851	0.18351	-3.7334	0.00019	0.00528
RAD54B	125.374	-0.6835	0.23962	-2.8523	0.00434	0.04149
DPP3	289.257	-0.6824	0.22472	-3.0367	0.00239	0.02788
BARD1	217.623	-0.6819	0.16702	-4.083	4.45E-05	0.00189
JMJD7	42.1209	-0.6816	0.25917	-2.6299	0.00854	0.06573
BAZ1A-A	56.3302	-0.6795	0.2401	-2.8303	0.00465	0.04321
IPMK	171.049	-0.6776	0.18028	-3.7589	0.00017	0.00493
ALG10	94.9431	-0.6776	0.18978	-3.5704	0.00036	0.00793
PTBP3	1322.25	-0.6775	0.18508	-3.6609	0.00025	0.00644
PDE3B	99.9033	-0.6772	0.24693	-2.7425	0.0061	0.05228
ERC2	34.1215	-0.6762	0.2734	-2.4734	0.01338	0.08855
KIF18A	355.427	-0.672	0.20963	-3.2058	0.00135	0.01926
HK2	405.305	-0.6719	0.2735	-2.4567	0.01402	0.09142
MPHOSF	461.922	-0.6717	0.25386	-2.6459	0.00815	0.06363
LRRC20	119.716	-0.6708	0.26668	-2.5153	0.01189	0.08157
0.216	85.1166	-0.6683	0.26842	-2.4896	0.01279	0.08552
DHFR	814.464	-0.667	0.26269	-2.5392	0.01111	0.07798
CDK6	830.729	-0.6649	0.26396	-2.5191	0.01176	0.08101
WNK3	103.226	-0.6642	0.19273	-3.4461	0.00057	0.01092
PHGDH	325.336	-0.6639	0.2374	-2.7966	0.00517	0.04629
HSPA4L	77.656	-0.6611	0.18639	-3.5467	0.00039	0.00851
CENPO	297.416	-0.6609	0.19996	-3.305	0.00095	0.01549
SUSD1	317.941	-0.6583	0.17565	-3.7479	0.00018	0.00509
BYSL	108.869	-0.6559	0.20103	-3.2626	0.0011	0.01694
RCC1	501.875	-0.6549	0.16559	-3.9547	7.66E-05	0.00276
GPR18	34.2316	-0.6549	0.23034	-2.843	0.00447	0.04221
VPS13B-	51.3441	-0.6507	0.2473	-2.6314	0.0085	0.06551
DPCD	61.3818	-0.6497	0.2076	-3.1294	0.00175	0.02266
0.268	30.0779	-0.6495	0.24133	-2.6915	0.00711	0.05813
0.141	552.372	-0.6493	0.26779	-2.4247	0.01532	0.09647
RMI2	83.0169	-0.6466	0.24844	-2.6027	0.00925	0.06908
HMMR	455.734	-0.6442	0.24042	-2.6796	0.00737	0.05938
UGCG	694.982	-0.6433	0.24627	-2.6121	0.009	0.06787
TAOK1	1945.25	-0.6433	0.21086	-3.0506	0.00228	0.02702
CENPX	162.464	-0.6424	0.22186	-2.8954	0.00379	0.03783
ITGA6	4929.78	-0.6418	0.23062	-2.7827	0.00539	0.04768
0.77	223.543	-0.6417	0.25717	-2.4951	0.01259	0.08477
ZFP69B	99.3816	-0.6409	0.18506	-3.4629	0.00053	0.0105
ZNF680	200	-0.6404	0.25725	-2.4895	0.01279	0.08552
RBL1	249.379	-0.6388	0.18309	-3.4892	0.00048	0.00978
CHCHD4	55.232	-0.6381	0.18922	-3.3723	0.00075	0.01331
CRACD	487.815	-0.6352	0.26077	-2.436	0.01485	0.09438
MAP3K1	1127.19	-0.635	0.20546	-3.0908	0.002	0.02479
SDE2	330.15	-0.6342	0.18139	-3.4962	0.00047	0.00964
VPS18	354.58	-0.6332	0.23911	-2.6481	0.00809	0.06339

SMPD1	423.659	-0.6323	0.1912	-3.3069	0.00094	0.01544
PANX1	264.416	-0.6318	0.14256	-4.4318	9.35E-06	0.00062
ZNF697	187.969	-0.6317	0.18535	-3.408	0.00065	0.01209
MAD2L2	191.778	-0.6316	0.19534	-3.2332	0.00122	0.01814
DOK6	134.881	-0.6315	0.24836	-2.5427	0.011	0.07749
MAPK6	854.017	-0.6289	0.20014	-3.1424	0.00168	0.02202
SLC16A6	103.205	-0.6288	0.19888	-3.1618	0.00157	0.02115
LCORL	236.529	-0.6287	0.26001	-2.4179	0.01561	0.09757
PKM	5607.56	-0.6267	0.19583	-3.2005	0.00137	0.01946
MAPK8IF	353.914	-0.6265	0.20382	-3.074	0.00211	0.0257
SHMT1	310.778	-0.6259	0.16924	-3.6983	0.00022	0.0059
GEN1	280.891	-0.6254	0.24985	-2.503	0.01232	0.08361
ZNF492	214.69	-0.6246	0.18	-3.47	0.00052	0.01032
MEX3C	903.373	-0.6241	0.13578	-4.5965	4.30E-06	0.00036
0.195	116.177	-0.6241	0.25144	-2.4819	0.01307	0.08701
ACLY	1911.16	-0.6232	0.14845	-4.1981	2.69E-05	0.00134
ERF	999.309	-0.6227	0.24083	-2.5856	0.00972	0.07144
EIF4A1	4658.15	-0.6225	0.16898	-3.684	0.00023	0.00609
	240.734	-0.622	0.14791	-4.205	2.61E-05	0.00131
E2F3	296.953	-0.6212	0.17991	-3.4528	0.00055	0.01073
ANKRD4	63.8839	-0.6211	0.2531	-2.4538	0.01414	0.09187
CTU2	89.1254	-0.621	0.1544	-4.0219	5.77E-05	0.00224
CMTM3	804.075	-0.6206	0.24253	-2.5587	0.01051	0.0752
PRKCZ	164.011	-0.6195	0.22339	-2.7733	0.00555	0.04874
GATAD2	886.743	-0.6185	0.15197	-4.0701	4.70E-05	0.00197
B4GALT5	1057.92	-0.6182	0.18795	-3.2892	0.001	0.01606
KIF20B	585.594	-0.617	0.15056	-4.0979	4.17E-05	0.00181
ZNF280C	210.079	-0.6168	0.16008	-3.853	0.00012	0.00376
MED13	1540.72	-0.6166	0.21687	-2.8431	0.00447	0.04221
ZNF718	112.092	-0.6161	0.22551	-2.7323	0.00629	0.05325
C5orf34	66.4647	-0.6152	0.14898	-4.1296	3.63E-05	0.00165
CASP8A1	406.795	-0.615	0.23234	-2.6469	0.00812	0.0635
CGAS	126.396	-0.6139	0.12781	-4.8032	1.56E-06	0.00019
ANP32A	1102.44	-0.6116	0.14408	-4.2447	2.19E-05	0.00115
FNDC3B	2892.27	-0.6109	0.16844	-3.627	0.00029	0.0069
0.201	56.1151	-0.6099	0.21207	-2.876	0.00403	0.03951
SEC24A	679.276	-0.6088	0.15132	-4.0232	5.74E-05	0.00224
GEMIN7	64.3625	-0.6084	0.20937	-2.9057	0.00366	0.03704
NTMT1	78.0568	-0.6079	0.15115	-4.0217	5.78E-05	0.00224
C3orf52	57.727	-0.6078	0.18322	-3.3171	0.00091	0.01511
ZNF28	326.307	-0.6058	0.20279	-2.9872	0.00282	0.03124
0.91	28.7165	-0.6049	0.2366	-2.5565	0.01057	0.07554
LINC0085	86.8343	-0.6042	0.24017	-2.5157	0.01188	0.0815
ZNF260	522.895	-0.6023	0.15752	-3.8238	0.00013	0.0041
SGO2	467.703	-0.6022	0.16307	-3.6929	0.00022	0.00596
PDCD6IF	85.4609	-0.6004	0.1205	-4.9829	6.26E-07	0.0001
PCK2	83.4939	-0.599	0.22252	-2.6917	0.00711	0.05813
BLTP3B	357.523	-0.5987	0.24591	-2.4347	0.0149	0.09462
NUP155	523.171	-0.5985	0.17987	-3.3275	0.00088	0.01478
ADGRG1	906.176	-0.5969	0.2225	-2.6829	0.0073	0.05902
RPH3AL	65.4741	-0.5969	0.23944	-2.493	0.01267	0.08507
HUNK	129.485	-0.5961	0.2095	-2.8456	0.00443	0.04208
PLEKHG	748.311	-0.5946	0.209	-2.8452	0.00444	0.04208
HYOU1	2510.72	-0.5943	0.18602	-3.1947	0.0014	0.01977
S1PR3	1107.58	-0.5933	0.19771	-3.0007	0.00269	0.03031
SLC25A1	392.84	-0.5932	0.11168	-5.3121	1.08E-07	2.78E-05

ASCC3	1717.68	-0.5924	0.19487	-3.0398	0.00237	0.02772
NAA15	707.019	-0.5924	0.15627	-3.7906	0.00015	0.00452
FHOD3	308.634	-0.5908	0.22517	-2.6236	0.0087	0.06636
BCL10	317.471	-0.589	0.21229	-2.7743	0.00553	0.04869
KRAS	494.93	-0.5884	0.13011	-4.5221	6.12E-06	0.00047
ZNF770	791.678	-0.5881	0.14538	-4.0452	5.23E-05	0.0021
TNFRSF2	1091.36	-0.588	0.20005	-2.9394	0.00329	0.03452
BCOR	691.98	-0.5873	0.16849	-3.4858	0.00049	0.00986
KCTD17	158.402	-0.5867	0.22438	-2.6146	0.00893	0.06753
THOC6	223.995	-0.5866	0.16103	-3.6428	0.00027	0.00666
OTUB2	141.646	-0.5861	0.23138	-2.5332	0.0113	0.07885
PCDHB3	156.742	-0.5859	0.22719	-2.5787	0.00992	0.07238
MCM5	523.824	-0.5853	0.184	-3.181	0.00147	0.02031
SEPHS1	560.587	-0.5842	0.12645	-4.6202	3.83E-06	0.00034
RLIM	1098.83	-0.5839	0.15555	-3.7541	0.00017	0.00498
AMOTL2	1168.1	-0.5837	0.18563	-3.1444	0.00166	0.02191
CHST3	909.195	-0.5836	0.21454	-2.7205	0.00652	0.05449
RFWD3	519.246	-0.5824	0.1224	-4.7582	1.95E-06	0.00022
CENATA1	38.4627	-0.5814	0.22014	-2.6411	0.00826	0.06425
AMMECF	275.099	-0.5805	0.15794	-3.6754	0.00024	0.00623
DUSP14	261.304	-0.5802	0.22071	-2.6289	0.00857	0.06582
MIS18A	160.074	-0.5792	0.17028	-3.4018	0.00067	0.01229
STAMBP	178.537	-0.5784	0.19256	-3.0038	0.00267	0.03016
GNL3L	806.015	-0.5775	0.2282	-2.5306	0.01139	0.07921
HOMER1	246.461	-0.5774	0.19507	-2.9601	0.00308	0.03302
ZCCHC14	1179.93	-0.5772	0.16536	-3.4907	0.00048	0.00975
VASH2	156.943	-0.577	0.21268	-2.7131	0.00666	0.05529
G6PD	411.549	-0.5769	0.17222	-3.3498	0.00081	0.01401
PHF6	484.539	-0.5769	0.11628	-4.9611	7.01E-07	0.00011
ZNF267	179.403	-0.5763	0.19784	-2.9129	0.00358	0.03653
MIDEAS	1215.2	-0.5733	0.19467	-2.9452	0.00323	0.03401
REST	925.987	-0.5732	0.17575	-3.2616	0.00111	0.01697
JARID2	750.841	-0.5726	0.16001	-3.5786	0.00035	0.0078
NUFIP2	1565.34	-0.5722	0.15732	-3.6368	0.00028	0.00675
AP1S1	228.818	-0.5707	0.18582	-3.0714	0.00213	0.02584
DIPK2A	677.963	-0.5681	0.16715	-3.3989	0.00068	0.01239
0.247	42.6046	-0.5673	0.17947	-3.161	0.00157	0.02116
PGD	1135.57	-0.567	0.20802	-2.7258	0.00642	0.05388
MTHFD11	302.477	-0.5637	0.1489	-3.7856	0.00015	0.00457
KCTD5	260.389	-0.5636	0.18921	-2.9785	0.0029	0.03183
MSI2	1304.83	-0.5634	0.16532	-3.408	0.00065	0.01209
ERI1	292.132	-0.5631	0.14267	-3.9469	7.92E-05	0.00281
SAMD1	507.251	-0.5622	0.15267	-3.6826	0.00023	0.00609
YRDC	46.5819	-0.5617	0.19979	-2.8116	0.00493	0.0449
SLC25A2	551.073	-0.5606	0.19945	-2.8106	0.00494	0.04501
STK35	437.302	-0.56	0.18386	-3.0457	0.00232	0.02733
EFNB2	1071.97	-0.5595	0.19723	-2.8367	0.00456	0.04277
ELOVL5	1537.72	-0.559	0.1431	-3.9064	9.37E-05	0.00319
0.176	228.812	-0.5587	0.23204	-2.4077	0.01605	0.09919
NCEH1	331.301	-0.5582	0.16612	-3.3606	0.00078	0.01368
RCC1L	255.641	-0.5557	0.12282	-4.5249	6.04E-06	0.00046
FLYWCH	210.649	-0.5556	0.1953	-2.8451	0.00444	0.04208
CEP295	321.877	-0.5551	0.19616	-2.8296	0.00466	0.04328
DNMT3B	138.275	-0.5536	0.17607	-3.1444	0.00166	0.02191
CA13	88.7744	-0.5531	0.19863	-2.7847	0.00536	0.04748
TCF20	1151.15	-0.5529	0.22451	-2.4627	0.01379	0.0903

CHP1	1116.72	-0.5527	0.13813	-4.0013	6.30E-05	0.00241
CABLES2	85.8676	-0.551	0.18881	-2.9183	0.00352	0.03614
GTF2A1	560.095	-0.5479	0.10867	-5.0419	4.61E-07	8.14E-05
CDK2	604.316	-0.5468	0.13509	-4.0479	5.17E-05	0.00209
RHOBTB	306.649	-0.5462	0.16798	-3.2514	0.00115	0.0174
EIF4G1	4178.99	-0.5451	0.16038	-3.3991	0.00068	0.01239
DUSP6	927.162	-0.5449	0.17949	-3.0361	0.0024	0.02789
DDX6	2076.24	-0.5433	0.16927	-3.2093	0.00133	0.0191
LIN54	276.717	-0.5432	0.10742	-5.0565	4.27E-07	7.78E-05
PCM1	3476.38	-0.5424	0.21041	-2.5779	0.00994	0.07251
TRIM59	174.885	-0.5424	0.20634	-2.6286	0.00857	0.06582
YWHAG	1663.93	-0.541	0.19988	-2.7069	0.00679	0.05614
C4orf46	277.044	-0.5402	0.14447	-3.7392	0.00018	0.00523
UTP20	641.277	-0.5393	0.16647	-3.2398	0.0012	0.01786
TBC1D31	110.448	-0.5391	0.13497	-3.9938	6.50E-05	0.00246
ARNT2	751.421	-0.5371	0.20961	-2.5623	0.0104	0.07478
ZNF850	82.5125	-0.5368	0.18884	-2.8429	0.00447	0.04221
FEM1C	800.368	-0.5367	0.17564	-3.0559	0.00224	0.02674
ZWILCH	211.86	-0.536	0.18108	-2.9599	0.00308	0.03302
MIS18BP	471.676	-0.5351	0.20294	-2.6367	0.00837	0.06476
POLA2	362.217	-0.5309	0.16385	-3.2403	0.00119	0.01786
IRS1	2552.32	-0.5304	0.21058	-2.5189	0.01177	0.08103
ACTG1	26136.8	-0.5297	0.20364	-2.6011	0.00929	0.06937
THOP1	358.226	-0.5287	0.17705	-2.986	0.00283	0.03129
CDK4	1157.76	-0.5287	0.16359	-3.2317	0.00123	0.0182
GPSM2	455.646	-0.5286	0.218	-2.4249	0.01531	0.09647
NANP	133.808	-0.5283	0.12254	-4.3109	1.63E-05	0.00092
UNC5B	763.537	-0.5273	0.21467	-2.4565	0.01403	0.09144
DDA1	377.181	-0.5267	0.16432	-3.205	0.00135	0.01929
SCLT1	160.554	-0.5263	0.1417	-3.7138	0.0002	0.00563
ATAD3A	249.959	-0.5242	0.20998	-2.4963	0.01255	0.0846
FGFRL1	345.446	-0.5238	0.21573	-2.4279	0.01519	0.09595
NRAS	815.699	-0.5238	0.14803	-3.5383	0.0004	0.0087
LIN9	139.125	-0.5236	0.12991	-4.0303	5.57E-05	0.00218
KLHL15	280.756	-0.5231	0.15657	-3.3413	0.00083	0.01435
DCP2	586.406	-0.5228	0.21326	-2.4513	0.01423	0.09214
PDK1	183.466	-0.5226	0.16512	-3.1649	0.00155	0.021
CLTC	6681.79	-0.522	0.15399	-3.3901	0.0007	0.01271
ITPRIPL2	1086.42	-0.522	0.15112	-3.4542	0.00055	0.01073
ETV5	354.712	-0.5214	0.19367	-2.6923	0.0071	0.05806
CNOT6	706.183	-0.5213	0.1133	-4.6014	4.20E-06	0.00036
RLF	515.582	-0.5207	0.19318	-2.6952	0.00703	0.0577
AHCTF1	876.743	-0.5195	0.1846	-2.8144	0.00489	0.04461
CSK	681.955	-0.5188	0.1279	-4.056	4.99E-05	0.00204
RNF180	871.291	-0.5186	0.17363	-2.9869	0.00282	0.03124
FRMD8	339.764	-0.5182	0.16883	-3.0692	0.00215	0.02595
NUCKS1	5443.33	-0.5174	0.13372	-3.8695	0.00011	0.00355
FAM117E	280.555	-0.5174	0.1433	-3.6105	0.00031	0.00719
LSM12	697.614	-0.5172	0.16352	-3.1629	0.00156	0.02112
CKAP5	1669.81	-0.5168	0.14996	-3.4465	0.00057	0.01091
GREB1	3238.36	-0.5159	0.20828	-2.4768	0.01326	0.088
PNPO	384.246	-0.5156	0.14774	-3.49	0.00048	0.00976
TLNRD1	408.191	-0.5152	0.20638	-2.4963	0.01255	0.0846
UBE2G1	614.45	-0.5143	0.11087	-4.6392	3.50E-06	0.00032
B3GALT5	78.7911	-0.5136	0.21239	-2.4181	0.0156	0.09755
RRM1	657.442	-0.5123	0.17959	-2.8528	0.00433	0.04147

GFPT1	1211.88	-0.5106	0.16627	-3.0706	0.00214	0.02586
RFC2	239.945	-0.5105	0.11134	-4.5855	4.53E-06	0.00038
EBP	238.612	-0.5103	0.18498	-2.7586	0.00581	0.05038
ZNF480	282.133	-0.5098	0.20052	-2.5423	0.01101	0.07752
RNGTT	283.151	-0.5097	0.09707	-5.2513	1.51E-07	3.55E-05
PPRC1	786.341	-0.5093	0.14108	-3.6097	0.00031	0.00719
BAG4	319.072	-0.5081	0.1235	-4.114	3.89E-05	0.00172
BCLAF1	3791.9	-0.5078	0.12524	-4.0548	5.02E-05	0.00205
SDC4	716.781	-0.5073	0.19099	-2.6564	0.0079	0.06228
SMS	896.377	-0.5069	0.1384	-3.6629	0.00025	0.0064
HDLBP	12813.1	-0.5069	0.20398	-2.4848	0.01296	0.08646
ZNF454	97.0939	-0.5064	0.19843	-2.5518	0.01072	0.07612
TPI1	3202	-0.5062	0.13043	-3.8813	0.0001	0.00343
ZNF100	223.566	-0.5062	0.14309	-3.5375	0.0004	0.0087
SKA2	478.849	-0.5041	0.15424	-3.2681	0.00108	0.01675
TMOD3	1148.69	-0.504	0.13683	-3.6836	0.00023	0.00609
0.111	261.396	-0.5039	0.17735	-2.8415	0.00449	0.04233
TATDN2	721.02	-0.5028	0.13417	-3.7474	0.00018	0.0051
CALR	9462.81	-0.5028	0.18172	-2.7668	0.00566	0.04955
MOB3A	622.437	-0.5011	0.19837	-2.5259	0.01154	0.07986
PANK3	1202.56	-0.501	0.12402	-4.0394	5.36E-05	0.00212
DDX21	1315.47	-0.4998	0.1769	-2.8252	0.00473	0.04367
HGF	652.866	-0.499	0.18556	-2.6893	0.00716	0.05829
PDLIM1	2013.41	-0.4975	0.19264	-2.5825	0.00981	0.07191
SPRED2	717.7	-0.4973	0.12597	-3.9474	7.90E-05	0.00281
TCF4	3879.7	-0.4967	0.19412	-2.559	0.0105	0.07516
NEXMIF	57.5184	-0.4964	0.17919	-2.77	0.00561	0.04921
KIF9	99.5121	-0.4963	0.15577	-3.1862	0.00144	0.02009
ZBED4	638.103	-0.4957	0.16666	-2.9745	0.00293	0.032
PAFAH1E	289.597	-0.4957	0.18351	-2.7012	0.00691	0.05684
ZNF184	252.949	-0.4957	0.13662	-3.6281	0.00029	0.00689
ILF2	2311.44	-0.4943	0.1642	-3.0105	0.00261	0.02971
CLPB	361.148	-0.4941	0.12877	-3.8374	0.00012	0.00393
ZNF629	793.572	-0.4938	0.20257	-2.4379	0.01477	0.09422
CCDC13	132.985	-0.4912	0.20152	-2.4376	0.01478	0.09422
0.49	72.8763	-0.4912	0.18338	-2.6789	0.00739	0.05944
TGIF2	564.395	-0.4912	0.15626	-3.1435	0.00167	0.02196
ATG101	176.105	-0.4905	0.19703	-2.4894	0.0128	0.08552
CHD1	968.55	-0.4903	0.16279	-3.0116	0.0026	0.02963
MCM7	1191.49	-0.4897	0.16676	-2.9365	0.00332	0.03474
ESYT1	1371.47	-0.4895	0.18459	-2.6518	0.00801	0.06283
AFF4	2794.98	-0.488	0.1429	-3.4147	0.00064	0.01196
ZNF670	117.836	-0.4867	0.13801	-3.5265	0.00042	0.00892
CLCN4	125.947	-0.4852	0.18938	-2.562	0.01041	0.0748
URB2	232.809	-0.4848	0.13801	-3.5131	0.00044	0.00921
MCM6	602.321	-0.4845	0.19147	-2.5306	0.01139	0.07921
MAPKAP	963.659	-0.4842	0.11145	-4.3445	1.40E-05	0.00084
TP53	1637.43	-0.4832	0.19137	-2.525	0.01157	0.07999
MZT1	140.482	-0.4815	0.19901	-2.4193	0.01555	0.09735
NDC1	531.956	-0.4814	0.17427	-2.7624	0.00574	0.04992
GSTCD	190.994	-0.4809	0.1313	-3.6627	0.00025	0.0064
MRPL19	620.364	-0.4794	0.12528	-3.8269	0.00013	0.00407
ABCC1	1119.81	-0.479	0.13358	-3.5858	0.00034	0.00766
NAB2	646.648	-0.4789	0.15639	-3.062	0.0022	0.0264
UGGT1	1567.52	-0.478	0.16411	-2.913	0.00358	0.03653
TASOR2	1497.2	-0.4778	0.14807	-3.2267	0.00125	0.01838

HNRNPF	2029.76	-0.4766	0.12661	-3.7646	0.00017	0.00485
TAF13	157.125	-0.4766	0.14524	-3.2813	0.00103	0.01633
BCL7A	294.182	-0.4759	0.1431	-3.3257	0.00088	0.01483
CDV3	1751.12	-0.4758	0.13579	-3.5037	0.00046	0.00943
PGAP1	285.386	-0.4752	0.19228	-2.4715	0.01345	0.08893
G3BP1	2966.34	-0.4751	0.14912	-3.1864	0.00144	0.02009
PGAM5	190.588	-0.4749	0.15948	-2.978	0.0029	0.03185
CTDSPL2	1465.44	-0.4739	0.14775	-3.2075	0.00134	0.01918
PAFAH1E	1041.56	-0.4734	0.09505	-4.9804	6.35E-07	0.0001
NXN	1191.5	-0.4727	0.13699	-3.4508	0.00056	0.01079
SUMO3	788.145	-0.4727	0.12893	-3.6662	0.00025	0.00635
ORAI2	562.343	-0.4726	0.19015	-2.4852	0.01295	0.0864
ABL1	2933.18	-0.4718	0.15957	-2.9564	0.00311	0.03328
YLPM1	2252.57	-0.4713	0.16516	-2.8534	0.00433	0.04145
TOPORS	525.966	-0.4704	0.16253	-2.8941	0.0038	0.03793
RBM12	1511.07	-0.4696	0.11623	-4.0404	5.34E-05	0.00211
SLC35F6	642.224	-0.4689	0.16181	-2.8977	0.00376	0.03763
CBL	765.799	-0.4686	0.15361	-3.0503	0.00229	0.02702
PDSS1	85.6629	-0.4682	0.17331	-2.7016	0.0069	0.0568
PRKCD	375.495	-0.4681	0.18693	-2.5042	0.01227	0.08356
0.14	556.91	-0.4671	0.11738	-3.9798	6.90E-05	0.00259
MARK1	388.56	-0.4666	0.18706	-2.4944	0.01262	0.08481
RTL6	816.524	-0.4664	0.13946	-3.3441	0.00083	0.01425
POLR1A	1340.47	-0.4654	0.18616	-2.5003	0.01241	0.08401
MBNL3	364.569	-0.4652	0.14863	-3.1302	0.00175	0.02263
RAB8A	654.771	-0.4635	0.12939	-3.5824	0.00034	0.00772
MMS22L	558.674	-0.4629	0.12206	-3.7924	0.00015	0.00451
ZNF93	189.647	-0.4626	0.17996	-2.5707	0.01015	0.07348
ATAD5	437.921	-0.4625	0.12011	-3.8503	0.00012	0.00378
SOX6	451.041	-0.4623	0.15516	-2.9797	0.00289	0.03174
RNF5	539.917	-0.4617	0.13421	-3.4401	0.00058	0.0111
YOD1	234.001	-0.4615	0.16819	-2.7438	0.00607	0.05211
AGO1	1045.77	-0.4613	0.18084	-2.5507	0.01075	0.07632
SFMBT1	148.542	-0.4609	0.14445	-3.1906	0.00142	0.01989
WSB2	722.565	-0.4607	0.14475	-3.1826	0.00146	0.02026
RC3H2	942.214	-0.4603	0.1741	-2.6439	0.0082	0.06389
USP5	741.367	-0.4603	0.12721	-3.6181	0.0003	0.00708
ZNF578	92.1019	-0.4601	0.17694	-2.6003	0.00931	0.06943
ARID1A	2611.36	-0.4595	0.161	-2.8542	0.00431	0.04137
TMX2P1	42.4499	-0.4592	0.17266	-2.6593	0.00783	0.06188
ARPIN-A	323.862	-0.4591	0.15358	-2.9896	0.00279	0.0311
PRELID2	84.6236	-0.4588	0.18808	-2.4394	0.01471	0.09409
KLHL18	328.805	-0.4584	0.12057	-3.8022	0.00014	0.00437
GXYLT1	367.365	-0.4582	0.15963	-2.8706	0.0041	0.03996
PABPC4L	712.37	-0.458	0.13232	-3.4614	0.00054	0.01053
VMA21	476.512	-0.4577	0.12987	-3.5242	0.00042	0.00896
CCDC15	70.9931	-0.4566	0.182	-2.509	0.01211	0.08263
DARS2	320.355	-0.4565	0.17474	-2.6125	0.00899	0.06783
EXOSC4	92.6643	-0.4563	0.17693	-2.5792	0.0099	0.07232
ACAT2	205.087	-0.4556	0.1702	-2.677	0.00743	0.05969
FBXO45	209.103	-0.455	0.08487	-5.3609	8.28E-08	2.37E-05
LINC0298	124.738	-0.4546	0.14096	-3.2251	0.00126	0.01844
SEMA3A	460.338	-0.4538	0.17529	-2.5886	0.00964	0.07099
ZNF280B	146.771	-0.4527	0.17576	-2.5756	0.01001	0.07285
C6orf47	216.919	-0.4525	0.13278	-3.4076	0.00066	0.01209
CBFB	599.778	-0.4524	0.1367	-3.3095	0.00093	0.0154

SYK	564.034	-0.4523	0.15408	-2.9356	0.00333	0.03477
BAZ1A	857.277	-0.452	0.17858	-2.531	0.01137	0.07918
PARP1	2357.54	-0.4519	0.16534	-2.733	0.00628	0.0532
NFIC	3352.69	-0.45	0.15699	-2.8667	0.00415	0.04032
PI4K2A	520.843	-0.4478	0.14971	-2.9909	0.00278	0.031
CEP85	273.195	-0.4478	0.13444	-3.3306	0.00087	0.01468
OSBPL1	311.284	-0.4472	0.13966	-3.2021	0.00136	0.01939
FTO	1034.27	-0.4466	0.15849	-2.818	0.00483	0.04429
MMD	235.892	-0.4465	0.17414	-2.5641	0.01034	0.07444
RASSF8	915.001	-0.446	0.12425	-3.5899	0.00033	0.00761
TXNRD1	919.645	-0.446	0.16596	-2.6871	0.00721	0.05851
NEK4	452.552	-0.4455	0.11026	-4.0409	5.32E-05	0.00211
EID3	69.4131	-0.4451	0.15108	-2.9463	0.00322	0.03396
HNRNPU	12342.8	-0.4451	0.14303	-3.1121	0.00186	0.02369
PYGO1	339.571	-0.445	0.16981	-2.6207	0.00877	0.06677
LAMC1	6166.4	-0.445	0.17697	-2.5145	0.01192	0.08169
LUZP1	1107.32	-0.4445	0.15138	-2.9365	0.00332	0.03474
CASC2	92.3647	-0.4443	0.17551	-2.5316	0.01135	0.07907
ADNP2	480.427	-0.4436	0.10837	-4.0937	4.25E-05	0.00183
C7orf25	157.65	-0.4434	0.13807	-3.2112	0.00132	0.01902
ZNF609	1505.16	-0.4423	0.16157	-2.7378	0.00619	0.0528
MID1IP1	629.662	-0.4423	0.1405	-3.1477	0.00165	0.02184
CTDP1	285.905	-0.4404	0.14304	-3.0784	0.00208	0.02543
CTNNBIF	367.142	-0.4393	0.16228	-2.707	0.00679	0.05614
HK1	1337.47	-0.4391	0.13372	-3.284	0.00102	0.01625
GRPEL2	217.868	-0.4388	0.13137	-3.34	0.00084	0.01438
ZNF81	399.57	-0.4386	0.16075	-2.7284	0.00636	0.05354
ARMC6	251.032	-0.4385	0.13691	-3.2028	0.00136	0.01938
NCAPD3	757.4	-0.4377	0.17047	-2.5674	0.01025	0.07392
CNTLN	815.607	-0.4373	0.15077	-2.9002	0.00373	0.03739
CCP110	545.421	-0.437	0.16266	-2.6869	0.00721	0.05851
PHETA1	130.827	-0.4369	0.16773	-2.6048	0.00919	0.06881
FOXRED	505.808	-0.4368	0.17575	-2.4856	0.01293	0.08633
CNN2	1616.02	-0.4368	0.18098	-2.4133	0.01581	0.09837
0.147	126.179	-0.4356	0.15521	-2.8068	0.005	0.04536
GSK3B	1817.51	-0.4354	0.1354	-3.2159	0.0013	0.01881
SYNCRIF	3113.92	-0.4351	0.10685	-4.0722	4.66E-05	0.00196
ZBTB22	252.882	-0.4345	0.17363	-2.5025	0.01233	0.08367
ELK1	701.508	-0.4342	0.17802	-2.439	0.01473	0.09411
SF3B3	2558.67	-0.4339	0.13441	-3.2284	0.00124	0.01834
WDR4	142.18	-0.4315	0.16563	-2.6049	0.00919	0.06881
PRIM2	168.706	-0.4313	0.14095	-3.0599	0.00221	0.02648
PPP2R5E	786.82	-0.4308	0.11938	-3.6085	0.00031	0.00721
MSANTD	330.201	-0.4306	0.08723	-4.9359	7.98E-07	0.00012
ZBTB41	749.562	-0.4304	0.09766	-4.4077	1.04E-05	0.00067
SPAST	374.761	-0.4301	0.08963	-4.7987	1.60E-06	0.00019
PDS5A	2046.54	-0.4295	0.14066	-3.0532	0.00226	0.02693
PRIM1	104.667	-0.4294	0.12041	-3.5657	0.00036	0.00799
CRKL	970.193	-0.429	0.13107	-3.2727	0.00107	0.0167
NCALD	471.049	-0.4289	0.1553	-2.7614	0.00576	0.05001
ZNF664	2761.02	-0.4281	0.12984	-3.2975	0.00098	0.01576
FIRRM	128.595	-0.4281	0.16854	-2.5398	0.01109	0.07792
TIAM2	170.425	-0.4279	0.16204	-2.6405	0.00828	0.06429
MEMO1	348.846	-0.427	0.15025	-2.8418	0.00449	0.04231
TAF1B	181.996	-0.4262	0.14141	-3.0137	0.00258	0.0295
DCAF7	2058.88	-0.4249	0.1016	-4.1823	2.89E-05	0.0014

HAUS8	147.594	-0.4248	0.14535	-2.9225	0.00347	0.0358
ARL5A	577.042	-0.4248	0.11905	-3.5684	0.00036	0.00794
ETV3	579.022	-0.4248	0.11522	-3.6866	0.00023	0.00605
HYLS1	146.909	-0.4248	0.1683	-2.5239	0.01161	0.0802
BAHD1	451.524	-0.4243	0.11614	-3.653	0.00026	0.0065
FBXL19	485.561	-0.4236	0.14156	-2.9922	0.00277	0.03092
RNF2	222.824	-0.4232	0.10444	-4.0522	5.07E-05	0.00206
AAGAB	408.145	-0.4232	0.1154	-3.6672	0.00025	0.00635
RIOX1	106.814	-0.4231	0.16897	-2.5038	0.01229	0.08356
METTL21	164.177	-0.4219	0.13829	-3.0507	0.00228	0.02702
ZNF254	856.978	-0.4217	0.17321	-2.4344	0.01492	0.09467
ZNF620	96.1394	-0.4215	0.16582	-2.5421	0.01102	0.07754
SASS6	117.446	-0.4211	0.13095	-3.2157	0.0013	0.01881
RBM42	601.888	-0.421	0.16055	-2.6225	0.00873	0.06653
KAT14	572.816	-0.4204	0.1383	-3.0394	0.00237	0.02772
SLC16A4	82.5812	-0.4199	0.13943	-3.0116	0.0026	0.02963
AZIN1	1690.39	-0.4197	0.11658	-3.6001	0.00032	0.0074
KIF22	699.774	-0.4193	0.17186	-2.44	0.01469	0.09399
LRRC8A	1091.08	-0.4189	0.14272	-2.9353	0.00333	0.03477
ARPIN	712.791	-0.4183	0.13056	-3.204	0.00136	0.01933
NORAD	8598.96	-0.4178	0.12398	-3.3703	0.00075	0.01335
HNRNPL	2431.2	-0.4178	0.10681	-3.9118	9.16E-05	0.00313
ATP2B1	1095.13	-0.4176	0.1268	-3.293	0.00099	0.01594
ING1	401.253	-0.4167	0.13422	-3.1043	0.00191	0.02405
PAK4	693.174	-0.4165	0.13062	-3.189	0.00143	0.01995
GNB1L	32.9153	-0.4162	0.1555	-2.6766	0.00744	0.05973
PPM1E	50.2647	-0.4159	0.1685	-2.4684	0.01357	0.08927
SELENOI	423.906	-0.4158	0.13499	-3.08	0.00207	0.02535
MFAP3	592.186	-0.4154	0.09356	-4.4398	9.01E-06	0.00062
TSPYL5	612.878	-0.4149	0.15116	-2.7448	0.00606	0.05204
USP46	442.187	-0.4149	0.12771	-3.2487	0.00116	0.0175
IRF2BP2	2001.44	-0.4143	0.1342	-3.0874	0.00202	0.02496
NKRF	288.248	-0.4141	0.10623	-3.8983	9.69E-05	0.00325
DHX8	795.397	-0.4141	0.12433	-3.3304	0.00087	0.01468
INTS7	333.848	-0.414	0.12404	-3.3376	0.00084	0.01444
MAK16	308.391	-0.4138	0.11388	-3.6338	0.00028	0.00681
SLC35B2	546.631	-0.413	0.10523	-3.9243	8.70E-05	0.00301
SMC1A	1900.35	-0.4129	0.12749	-3.2387	0.0012	0.01791
DENND5	309.815	-0.4121	0.1699	-2.4256	0.01528	0.09634
MIB1	1412.92	-0.4118	0.12769	-3.2254	0.00126	0.01843
ALKBH5	876.873	-0.4108	0.145	-2.8331	0.00461	0.04297
STK17A	369.352	-0.4104	0.15785	-2.5997	0.00933	0.06949
H2AC25	99.6963	-0.4103	0.13173	-3.1149	0.00184	0.02353
CIP2A	453.596	-0.4101	0.12755	-3.2154	0.0013	0.01881
ARK2N	398.987	-0.4101	0.13198	-3.1072	0.00189	0.02391
YWHAQ	3063.62	-0.4098	0.13107	-3.1264	0.00177	0.02285
NECTIN3	128.683	-0.4091	0.15055	-2.7175	0.00658	0.05477
PPP4C	594.093	-0.4089	0.11285	-3.6237	0.00029	0.00696
PEX26	836.228	-0.4084	0.14919	-2.7378	0.00618	0.0528
PPIF	344.71	-0.4082	0.14891	-2.7413	0.00612	0.05243
C2orf69	202.943	-0.4079	0.11279	-3.6164	0.0003	0.00711
LCLAT1	322.135	-0.4069	0.1287	-3.1613	0.00157	0.02115
EMC1	1039.44	-0.4068	0.16723	-2.4325	0.01499	0.095
RBM27	531.579	-0.4067	0.09423	-4.3157	1.59E-05	0.0009
EAF1	436.253	-0.4066	0.06944	-5.8551	4.77E-09	2.20E-06
TMEM33	1352.66	-0.4061	0.12112	-3.3532	0.0008	0.0139

YES1	761.637	-0.4061	0.11193	-3.6279	0.00029	0.00689
SLC25A5	169.753	-0.405	0.13325	-3.0394	0.00237	0.02772
DLG3	405.142	-0.404	0.12383	-3.2624	0.0011	0.01694
PSMD12	503.809	-0.4031	0.07545	-5.343	9.14E-08	2.51E-05
SRXN1	342.738	-0.402	0.15118	-2.6591	0.00784	0.06189
ATP13A3	1358.39	-0.4018	0.16031	-2.5062	0.0122	0.08319
PURB	1221.08	-0.4015	0.0942	-4.2619	2.03E-05	0.00109
ZNRF2	418.993	-0.4009	0.12717	-3.1524	0.00162	0.02155
OSBPL8	1220.36	-0.4008	0.16079	-2.4925	0.01269	0.08516
ZNF730	274.161	-0.3993	0.13836	-2.8858	0.0039	0.03852
SH3BP4	770.379	-0.3993	0.12694	-3.1455	0.00166	0.0219
ARHGAP	316.192	-0.3991	0.12719	-3.1378	0.0017	0.02226
WRNIP1	423.338	-0.3986	0.1182	-3.372	0.00075	0.01332
RSF1	1042.44	-0.3982	0.13795	-2.8868	0.00389	0.03847
NUP153	1153.96	-0.398	0.13105	-3.0367	0.00239	0.02788
RGS3	509.042	-0.398	0.10762	-3.6978	0.00022	0.0059
GLTP	504.737	-0.3979	0.12903	-3.0841	0.00204	0.02513
TIMM22	287.463	-0.3977	0.11918	-3.3373	0.00085	0.01444
KHDRBS	2670.26	-0.3971	0.11825	-3.3584	0.00078	0.01376
UHMK1	1774.7	-0.3968	0.11692	-3.3941	0.00069	0.01255
ZNRF1	375.387	-0.3965	0.14178	-2.7966	0.00516	0.04629
RNF26	468.973	-0.3963	0.13069	-3.0326	0.00242	0.02812
ETF1	1286.14	-0.3962	0.08392	-4.7211	2.35E-06	0.00024
ARPP19	1713.97	-0.3961	0.13383	-2.9598	0.00308	0.03302
GMPS	1030.57	-0.396	0.11745	-3.3714	0.00075	0.01333
SCML2	86.7236	-0.3955	0.15353	-2.5758	0.01	0.07283
ECHS1	561.527	-0.3946	0.16361	-2.4121	0.01586	0.09849
COPS3	484.532	-0.3944	0.08319	-4.7402	2.13E-06	0.00023
PRXL2C	244.374	-0.3941	0.14239	-2.7676	0.00565	0.04945
DHTKD1	601.205	-0.394	0.1299	-3.0331	0.00242	0.02808
GMEB1	310.964	-0.3939	0.10794	-3.6489	0.00026	0.00655
0.132	178.593	-0.3934	0.14529	-2.7079	0.00677	0.05605
HMCES	383.285	-0.3934	0.09919	-3.9657	7.32E-05	0.00268
PPP3R1	740.601	-0.3932	0.12472	-3.1525	0.00162	0.02155
G3BP2	1518.37	-0.393	0.09049	-4.3432	1.40E-05	0.00084
ARFGAP	807.892	-0.3928	0.12381	-3.1727	0.00151	0.02067
DNMT1	1502.58	-0.3918	0.14359	-2.7289	0.00635	0.05353
PBRM1	1373.59	-0.3917	0.16068	-2.4375	0.01479	0.09422
RNF4	916.168	-0.3916	0.10706	-3.658	0.00025	0.00645
PTGFRN	1581.27	-0.3915	0.15394	-2.5435	0.01097	0.07738
BRCC3	299.02	-0.3912	0.14944	-2.6177	0.00885	0.06716
RTKN2	430.617	-0.3892	0.14207	-2.7393	0.00616	0.05265
DCAF12	899.309	-0.389	0.08807	-4.4173	9.99E-06	0.00065
ZHX2	515.399	-0.3885	0.15955	-2.435	0.01489	0.09458
DCAF1	595.469	-0.3882	0.09532	-4.0729	4.64E-05	0.00196
DUSP16	706.899	-0.3879	0.15006	-2.5851	0.00974	0.07147
LYSMD3	423.596	-0.3878	0.13498	-2.8732	0.00406	0.03972
MRPS30	571.393	-0.3869	0.11544	-3.3513	0.0008	0.01396
SUMO2	1624.25	-0.3865	0.14431	-2.6779	0.00741	0.05956
YWHAZ	5135.57	-0.3858	0.13225	-2.9175	0.00353	0.03616
ERC1	1530.19	-0.3855	0.14349	-2.687	0.00721	0.05851
SGTB	225.739	-0.3848	0.11645	-3.3045	0.00095	0.01549
CLCN3	860.764	-0.3843	0.11109	-3.459	0.00054	0.01059
DIP2B	815.705	-0.3839	0.13932	-2.7553	0.00586	0.05076
CENPL	108.581	-0.3835	0.14692	-2.61	0.00906	0.06815
ADPRHL	127.828	-0.3834	0.1296	-2.9583	0.00309	0.03313

UNG	451.668	-0.3833	0.12304	-3.1154	0.00184	0.02352
TBC1D7	178.209	-0.3827	0.11349	-3.3724	0.00075	0.01331
ENO1	4322.61	-0.3826	0.12105	-3.1607	0.00157	0.02117
TOB2	1633.1	-0.3825	0.15134	-2.5273	0.01149	0.07963
MAP4K4	2229.39	-0.3823	0.14416	-2.6521	0.008	0.06281
PPP3CA	593.312	-0.3822	0.15537	-2.4597	0.0139	0.09082
NSF	764.065	-0.3821	0.12785	-2.9889	0.0028	0.03113
HSD17B1	473.513	-0.3821	0.14611	-2.6152	0.00892	0.06747
KLHL8	273.183	-0.3815	0.09615	-3.968	7.25E-05	0.00266
SEPTIN9	4079.05	-0.3813	0.13389	-2.8475	0.00441	0.04192
SMYD3	172.371	-0.3812	0.1584	-2.4065	0.01611	0.09943
STT3B	2814.82	-0.3811	0.14148	-2.6938	0.00706	0.05788
RRP1	200.323	-0.3808	0.13106	-2.906	0.00366	0.03702
VDAC1	1089.82	-0.3807	0.14001	-2.7195	0.00654	0.05459
C16orf87	119.599	-0.3806	0.12478	-3.0502	0.00229	0.02702
RRP12	513.807	-0.3805	0.13486	-2.8216	0.00478	0.04398
SEPTIN1	2546.34	-0.3798	0.15476	-2.454	0.01413	0.09187
MGAT5	1084.82	-0.3796	0.13879	-2.7354	0.00623	0.05294
NECTIN2	1348.83	-0.3788	0.15623	-2.4247	0.01532	0.09647
FAM210A	142.293	-0.3785	0.09023	-4.1948	2.73E-05	0.00135
H3-3B	5190.09	-0.3783	0.13495	-2.803	0.00506	0.04562
FADS1	512.342	-0.3782	0.14064	-2.6892	0.00716	0.05829
MMACHC	188.667	-0.378	0.15675	-2.4115	0.01589	0.09852
LARP1	3050.69	-0.3779	0.11031	-3.426	0.00061	0.01156
SIN3A	1435.55	-0.3778	0.11219	-3.3678	0.00076	0.01341
RANGAP	682.572	-0.3778	0.12073	-3.1296	0.00175	0.02266
PDE12	389.08	-0.3769	0.08672	-4.3461	1.39E-05	0.00084
NUP50	804.477	-0.376	0.12987	-2.8953	0.00379	0.03783
	0.59	68.799	-0.376	0.15608	-2.409	0.016
						0.09904
GTF3C6	358.262	-0.3759	0.14604	-2.574	0.01005	0.07304
MED1	1275.5	-0.3755	0.08669	-4.3319	1.48E-05	0.00086
TIFA	170.456	-0.3754	0.11883	-3.1587	0.00158	0.02128
CTNNA1	4449.52	-0.3752	0.11254	-3.3341	0.00086	0.01455
CEBPZ	533.953	-0.3747	0.111	-3.3762	0.00073	0.01321
PHF23	531.763	-0.3747	0.14078	-2.6613	0.00778	0.06166
LARS2	529.298	-0.3746	0.14389	-2.6031	0.00924	0.06903
TOPBP1	592.567	-0.3745	0.12874	-2.9086	0.00363	0.03684
BANF1	922.555	-0.3736	0.1399	-2.6703	0.00758	0.06043
C17orf49	343.769	-0.3736	0.15227	-2.4532	0.01416	0.09193
ATG4D	84.9814	-0.3724	0.14057	-2.6494	0.00806	0.06321
B4GALT6	170.863	-0.371	0.10495	-3.5354	0.00041	0.00873
RANBP9	735.802	-0.3705	0.11603	-3.193	0.00141	0.01981
TMTC3	976.015	-0.3703	0.11517	-3.2152	0.0013	0.01881
FAM120C	323.136	-0.3701	0.15071	-2.4556	0.01406	0.09155
INTS6	1314.59	-0.3699	0.14871	-2.4876	0.01286	0.08589
STAU2	515.08	-0.3698	0.09832	-3.7615	0.00017	0.00489
PDCD11	829.126	-0.3689	0.15197	-2.4272	0.01522	0.09605
RPA1	837.783	-0.3675	0.09305	-3.9491	7.84E-05	0.0028
TP53BP2	678.249	-0.3674	0.12894	-2.8495	0.00438	0.04176
MAGI2	556.029	-0.366	0.11309	-3.236	0.00121	0.01801
BRD3	861.837	-0.3657	0.13406	-2.7277	0.00638	0.05364
KIF3B	1106.8	-0.365	0.11866	-3.0758	0.0021	0.0256
RNF40	1343.8	-0.3648	0.12277	-2.9716	0.00296	0.03217
TRAK1	1221.45	-0.3648	0.14556	-2.5061	0.01221	0.08319
CHIC2	190.561	-0.3644	0.14429	-2.5253	0.01156	0.07994
RBBP8	660.52	-0.3643	0.10927	-3.3344	0.00085	0.01455

MRPL37	612.493	-0.3628	0.11753	-3.0866	0.00202	0.025
FZD3	985.1	-0.3626	0.12669	-2.8617	0.00421	0.04078
SAE1	1177.22	-0.362	0.13194	-2.7441	0.00607	0.05211
UCHL5	285.48	-0.3618	0.09008	-4.0164	5.91E-05	0.00229
EIF4EBP	2616.52	-0.3617	0.09385	-3.8545	0.00012	0.00375
WARS2	211.723	-0.3614	0.10933	-3.3054	0.00095	0.01549
UPRT	139.218	-0.3606	0.10932	-3.2985	0.00097	0.01572
UBFD1	1155.83	-0.3605	0.12975	-2.7786	0.00546	0.04818
KPNA6	1205.2	-0.3598	0.12547	-2.8677	0.00413	0.04025
DSTYK	708.127	-0.3598	0.13762	-2.6145	0.00894	0.06753
PCDHB4	217.9	-0.3591	0.14299	-2.5115	0.01202	0.08212
TMEM16	1040.35	-0.3589	0.11553	-3.1067	0.00189	0.02391
OXR1	1087.9	-0.3583	0.14002	-2.5592	0.01049	0.07514
CHST14	432.381	-0.3576	0.14711	-2.4307	0.01507	0.09536
LYPLA2	502.485	-0.3574	0.14478	-2.4686	0.01357	0.08927
IREB2	871.556	-0.3574	0.11771	-3.036	0.0024	0.02789
DAG1	1632.37	-0.3574	0.11486	-3.1112	0.00186	0.02375
HCFC1	1903.45	-0.3573	0.11911	-3	0.0027	0.03036
RFX7	576.951	-0.3559	0.1016	-3.5031	0.00046	0.00944
CPSF2	740.666	-0.3552	0.14175	-2.506	0.01221	0.08319
CRK	1059.6	-0.3544	0.07938	-4.465	8.01E-06	0.00056
LNPk	506.447	-0.354	0.1135	-3.1187	0.00182	0.0233
UBTD2	685.001	-0.3538	0.11497	-3.0771	0.00209	0.02552
SENP1	409.512	-0.3535	0.12008	-2.9442	0.00324	0.03409
HPRT1	279.885	-0.3533	0.13536	-2.61	0.00905	0.06815
RAN	1954.11	-0.3521	0.14384	-2.4482	0.01436	0.0927
CAMSAP	954.632	-0.352	0.12929	-2.7222	0.00648	0.05423
PTPRG	1455.18	-0.3519	0.12733	-2.7638	0.00571	0.04983
PARPBP	395.787	-0.3516	0.14577	-2.4119	0.01587	0.09849
CSNK1A	2466.75	-0.3513	0.08581	-4.0941	4.24E-05	0.00183
ZFP91	1437.99	-0.351	0.11826	-2.968	0.003	0.0324
NUP205	804.559	-0.3505	0.12302	-2.8491	0.00438	0.04179
RBM15B	1294.77	-0.3504	0.11171	-3.1366	0.00171	0.02228
ARPC4	1061.21	-0.35	0.11374	-3.077	0.00209	0.02552
CRPPA	72.6907	-0.3498	0.11851	-2.9516	0.00316	0.03357
SMARCA	2277.03	-0.3495	0.14285	-2.4469	0.01441	0.09292
BAG5	770.464	-0.3485	0.1302	-2.6766	0.00744	0.05973
GPI	1366.69	-0.3484	0.12635	-2.7574	0.00583	0.0505
AGBL5	425.757	-0.3483	0.12006	-2.9009	0.00372	0.03735
ADAM10	1957.23	-0.3482	0.10645	-3.2713	0.00107	0.01673
BUD31	511.833	-0.3479	0.08109	-4.2904	1.78E-05	0.00099
KPNA4	1257.61	-0.3472	0.10995	-3.1578	0.00159	0.02134
PTPN9	793.62	-0.3471	0.0927	-3.7441	0.00018	0.00515
GFUS	366.887	-0.3468	0.11605	-2.9884	0.0028	0.03115
0.22	178.892	-0.3465	0.13686	-2.5318	0.01135	0.07906
RGMB	619.546	-0.3464	0.1269	-2.73	0.00633	0.05343
CHD4	4025.02	-0.3458	0.13277	-2.6042	0.00921	0.06886
CEP128	426.855	-0.345	0.10774	-3.2022	0.00136	0.01939
ZNF678	560.308	-0.3448	0.1169	-2.9495	0.00318	0.03376
UBXN2B	489.293	-0.3447	0.10852	-3.1763	0.00149	0.02054
UBE2I	1414.23	-0.3433	0.11784	-2.913	0.00358	0.03653
PLEKHA	780.093	-0.3431	0.08738	-3.9263	8.63E-05	0.00299
DHX37	360.049	-0.3429	0.10925	-3.1387	0.0017	0.02222
HAUS6	411.54	-0.3426	0.14059	-2.4367	0.01482	0.09436
STX6	577.217	-0.3424	0.11091	-3.0873	0.00202	0.02496
LSM14B	479.814	-0.3416	0.13176	-2.5925	0.00953	0.0705

GNPTAB	723.408	-0.3414	0.12214	-2.7947	0.00519	0.04645
LRRC58	851.44	-0.3413	0.09599	-3.5559	0.00038	0.00825
PSMD3	1133.56	-0.3413	0.13828	-2.4683	0.01358	0.08927
DDX10	464.736	-0.3411	0.13876	-2.4584	0.01395	0.09105
LATS1	870.868	-0.3408	0.11263	-3.0257	0.00248	0.02864
ZNF281	381.423	-0.3407	0.11765	-2.8958	0.00378	0.0378
DLGAP4	1360.22	-0.3403	0.13192	-2.5794	0.0099	0.07231
ZW10	282.973	-0.3399	0.08894	-3.8218	0.00013	0.00413
RAD51D	297.003	-0.3396	0.13874	-2.4478	0.01437	0.09278
MRM3	153.343	-0.3388	0.11335	-2.989	0.0028	0.03113
CMC2	178.93	-0.3379	0.12201	-2.7696	0.00561	0.04922
AEBP2	483.25	-0.3369	0.11363	-2.9646	0.00303	0.03265
TDP1	380.494	-0.3368	0.13325	-2.5279	0.01148	0.0796
PIP5K1A	1099.34	-0.3365	0.08599	-3.9131	9.11E-05	0.00312
0.243	157.391	-0.3353	0.13448	-2.4934	0.01265	0.08501
GSKIP	203.213	-0.3349	0.13714	-2.442	0.01461	0.0938
UBE2W	373.133	-0.3348	0.13023	-2.571	0.01014	0.07347
MED26	135.125	-0.3343	0.10161	-3.2898	0.001	0.01604
SLX4	327.003	-0.3341	0.12923	-2.5851	0.00973	0.07147
GABPB1	297.806	-0.3339	0.09498	-3.5152	0.00044	0.00916
FIBP	515.876	-0.3338	0.09932	-3.3607	0.00078	0.01368
ALAS1	420.429	-0.3334	0.0934	-3.5698	0.00036	0.00794
RPGRIP1	719.73	-0.3333	0.10146	-3.285	0.00102	0.0162
SRPK1	807.885	-0.3329	0.09871	-3.3725	0.00074	0.01331
FUT11	337.367	-0.3326	0.10342	-3.2158	0.0013	0.01881
PEX13	291.444	-0.3323	0.09517	-3.4911	0.00048	0.00975
JADE3	362.31	-0.332	0.09693	-3.4256	0.00061	0.01156
NMD3	487.989	-0.3314	0.11866	-2.7926	0.00523	0.04665
ZNF420	115.599	-0.3313	0.1327	-2.4968	0.01253	0.08455
BRPF1	359.773	-0.3305	0.13345	-2.4763	0.01327	0.08806
BAZ1B	2001.72	-0.33	0.09571	-3.4473	0.00057	0.0109
ANKRD1	3014.36	-0.3292	0.09609	-3.4256	0.00061	0.01156
ZNF675	171.343	-0.3288	0.11833	-2.7785	0.00546	0.04818
XRCC6	2623.84	-0.3278	0.08131	-4.0308	5.56E-05	0.00218
CNP	974.378	-0.3274	0.12373	-2.6458	0.00815	0.06363
PPAT	190.529	-0.3267	0.13534	-2.4142	0.01577	0.09826
WDR5	457.09	-0.3258	0.11164	-2.9181	0.00352	0.03615
SHKBP1	468.599	-0.325	0.12633	-2.5724	0.0101	0.07326
CCAR2	1448.04	-0.3247	0.12796	-2.5375	0.01117	0.07812
DCLRE1	155.841	-0.3243	0.09882	-3.2815	0.00103	0.01633
RNF6	381.724	-0.324	0.12384	-2.6162	0.00889	0.06737
OGDH	1114.29	-0.3231	0.1211	-2.6681	0.00763	0.06075
GSPT1	1765.03	-0.3222	0.08455	-3.811	0.00014	0.00426
RNF168	370.319	-0.3218	0.10269	-3.1337	0.00173	0.02242
KPNB1	3103.58	-0.3216	0.09975	-3.2243	0.00126	0.01845
FNDC3A	2613.73	-0.3214	0.13218	-2.4313	0.01504	0.09523
CLPTM1	590.453	-0.3212	0.09968	-3.2219	0.00127	0.0185
KIAA158	527.672	-0.3206	0.1086	-2.9523	0.00315	0.03357
CS	2246.54	-0.3204	0.1237	-2.5904	0.00959	0.07074
IPO11	372.629	-0.3185	0.12089	-2.6346	0.00842	0.06508
CSRNP2	792.26	-0.3183	0.09407	-3.3833	0.00072	0.01294
FXR2	536.499	-0.3182	0.09081	-3.5035	0.00046	0.00943
SMIM12	375.285	-0.3173	0.10082	-3.1472	0.00165	0.02184
CARNMT	262.732	-0.316	0.09553	-3.3077	0.00094	0.01543
ACBD3	884.444	-0.316	0.10995	-2.8738	0.00406	0.03969
SPTY2D	549.976	-0.3158	0.1072	-2.9462	0.00322	0.03396

AFG1L	80.4263	-0.3145	0.11454	-2.7455	0.00604	0.05196
PMF1	588.678	-0.314	0.11476	-2.7364	0.00621	0.05286
EIF3B	1407.32	-0.313	0.11492	-2.724	0.00645	0.05405
IMMP1L	62.2782	-0.3124	0.11066	-2.823	0.00476	0.04385
SLC25A4	549.112	-0.3123	0.08739	-3.5738	0.00035	0.00789
DCTD	649.886	-0.3113	0.11241	-2.7697	0.00561	0.04922
TGS1	374.594	-0.3107	0.10582	-2.9362	0.00332	0.03475
TAF1A	81.5903	-0.3102	0.10191	-3.0436	0.00234	0.02747
SSRP1	1820.69	-0.3101	0.11527	-2.6898	0.00715	0.05827
ELF1	1020.34	-0.3099	0.11881	-2.6082	0.0091	0.06834
MTAP	556.55	-0.3098	0.11579	-2.6758	0.00746	0.05982
KPNA3	788.296	-0.3097	0.10628	-2.9141	0.00357	0.03645
AGPAT3	981.448	-0.3094	0.11991	-2.5807	0.00986	0.07213
AKT1	1687.68	-0.3094	0.11432	-2.7064	0.0068	0.05619
STRN3	513.248	-0.3093	0.12647	-2.4459	0.01445	0.09314
SMAD5	1404.43	-0.3091	0.09912	-3.1182	0.00182	0.02333
DNAL1	325.781	-0.309	0.10125	-3.0517	0.00228	0.027
SEH1L	367.209	-0.3086	0.09443	-3.268	0.00108	0.01675
C8orf76	191.615	-0.3086	0.09995	-3.0873	0.00202	0.02496
SLC25A2	1004.09	-0.3084	0.12336	-2.4999	0.01242	0.08401
PRKCSH	3764.65	-0.308	0.1087	-2.8337	0.0046	0.04295
BRD3OS	463.957	-0.3071	0.11358	-2.7036	0.00686	0.05654
PRTFDC	350.983	-0.3067	0.09858	-3.1109	0.00187	0.02375
ATRN	1508.59	-0.3061	0.11131	-2.7501	0.00596	0.05137
KRBOX5	653.934	-0.3061	0.11539	-2.6526	0.00799	0.06276
ATP11C	560.395	-0.3057	0.11453	-2.6689	0.00761	0.06064
PPP6C	594.159	-0.3055	0.07568	-4.0367	5.42E-05	0.00213
KDM1B	428.575	-0.3049	0.11606	-2.6267	0.00862	0.06597
ZBTB5	495.778	-0.3039	0.10577	-2.8734	0.00406	0.03972
AP5S1	236.329	-0.3026	0.12069	-2.5076	0.01216	0.08293
STRN	719.771	-0.302	0.12023	-2.5116	0.01202	0.08212
MRM2	257.267	-0.3017	0.09423	-3.2024	0.00136	0.01939
TMEM18	933.341	-0.301	0.08382	-3.5916	0.00033	0.00756
SPRING1	513.049	-0.3006	0.09197	-3.2682	0.00108	0.01675
DNAAF2	300.931	-0.3	0.12117	-2.4761	0.01328	0.08809
MTCH2	628.001	-0.2982	0.10461	-2.8505	0.00437	0.04165
RAB22A	722.359	-0.2977	0.09164	-3.2483	0.00116	0.01751
CFAP97	642.475	-0.2977	0.10867	-2.7393	0.00616	0.05265
MRPS15	420.108	-0.2971	0.11633	-2.5538	0.01065	0.07584
SHLD2	532.694	-0.2969	0.09559	-3.1059	0.0019	0.02395
THUMPD	464.997	-0.2968	0.10197	-2.9107	0.00361	0.03671
SMARCC	2635.9	-0.296	0.12273	-2.4119	0.01587	0.09849
DNAAF5	464.961	-0.296	0.10636	-2.783	0.00539	0.04766
FOXN2	641.718	-0.2959	0.07782	-3.8018	0.00014	0.00437
LRRC42	296.863	-0.2953	0.09963	-2.9635	0.00304	0.03275
NAGA	579.226	-0.2948	0.10471	-2.8155	0.00487	0.0445
ZNF672	375.932	-0.2947	0.08641	-3.4109	0.00065	0.01203
ELP5	327.562	-0.2947	0.09514	-3.0978	0.00195	0.0244
ISCA1	464.629	-0.2944	0.09655	-3.0494	0.00229	0.02707
POLR2D	442.328	-0.294	0.10442	-2.8154	0.00487	0.0445
FBXW11	875.004	-0.2935	0.08723	-3.3646	0.00077	0.01355
FXN	212.051	-0.293	0.11071	-2.6462	0.00814	0.0636
PRPF31	648.056	-0.2929	0.11558	-2.5338	0.01128	0.07873
NAF1	193.783	-0.2916	0.11952	-2.4401	0.01468	0.09399
MOB1B	1002.36	-0.2916	0.07849	-3.7159	0.0002	0.00561
APEH	654.233	-0.2912	0.1017	-2.8631	0.0042	0.04064

ATE1	506.377	-0.2908	0.11379	-2.5555	0.0106	0.07566
UGGT2	903.592	-0.2901	0.12028	-2.4118	0.01587	0.09849
SNN	397.831	-0.2897	0.09492	-3.0522	0.00227	0.02699
TRIM8	1487.15	-0.2887	0.1064	-2.7136	0.00666	0.05527
CCNJ	223.533	-0.2884	0.11263	-2.5605	0.01045	0.07499
PRDM4	718.653	-0.2881	0.09766	-2.9506	0.00317	0.03366
CNOT1	3466.21	-0.2881	0.10283	-2.8019	0.00508	0.04571
HSPA9	2492.1	-0.288	0.0944	-3.0512	0.00228	0.02702
ZBTB9	224.736	-0.2876	0.11426	-2.5169	0.01184	0.0813
LRRC34	120.931	-0.2876	0.11323	-2.5399	0.01109	0.07792
ZNF322	592.116	-0.2865	0.10809	-2.6507	0.00803	0.06298
TNPO1	2705.97	-0.2863	0.08023	-3.568	0.00036	0.00794
GPHN	345.258	-0.2862	0.10062	-2.8446	0.00445	0.04213
WASL	928.044	-0.2861	0.08787	-3.256	0.00113	0.01722
AP2B1	3041.31	-0.2857	0.08444	-3.384	0.00071	0.01293
XRCC5	4143.39	-0.2851	0.10693	-2.6658	0.00768	0.06109
TIMM10E	625.866	-0.2846	0.07964	-3.5732	0.00035	0.0079
CDC73	1101.01	-0.2842	0.07307	-3.8889	0.0001	0.00336
PTPN1	787.949	-0.2827	0.10419	-2.7136	0.00666	0.05527
PDCL	361.393	-0.2818	0.10535	-2.6748	0.00748	0.05991
FAM234A	1213.2	-0.2817	0.10851	-2.5964	0.00942	0.07
CPSF3	460.376	-0.2816	0.08763	-3.2133	0.00131	0.01891
TAB2	1307.4	-0.2805	0.11502	-2.4384	0.01475	0.09419
SRBD1	727.695	-0.2802	0.11299	-2.4797	0.01315	0.08746
C18orf54	420.354	-0.28	0.07263	-3.856	0.00012	0.00374
ZNF597	139.223	-0.2796	0.10189	-2.7439	0.00607	0.05211
HLCS	540.921	-0.2792	0.11459	-2.4365	0.01483	0.09436
MMGT1	523.464	-0.2792	0.08268	-3.3766	0.00073	0.01321
PSMD2	1747.53	-0.2787	0.11407	-2.4437	0.01454	0.09346
TTLL1	150.892	-0.2785	0.11079	-2.514	0.01194	0.0817
FNTB	305.74	-0.2783	0.09419	-2.9547	0.00313	0.03335
ZMYM4	1472.88	-0.2783	0.10098	-2.756	0.00585	0.0507
YAF2	266.796	-0.2774	0.09714	-2.856	0.00429	0.04121
NUP188	990.455	-0.276	0.11383	-2.4245	0.01533	0.09647
WAPL	874.212	-0.2755	0.09301	-2.962	0.00306	0.03289
EIF4H	2791.69	-0.2748	0.07602	-3.6152	0.0003	0.00713
GNB1	4351.69	-0.2718	0.09588	-2.8351	0.00458	0.04288
DNAJC14	684.517	-0.2718	0.08316	-3.2683	0.00108	0.01675
PRUNE1	468.797	-0.271	0.07358	-3.6832	0.00023	0.00609
EEF1AKM	174.292	-0.271	0.11125	-2.4359	0.01486	0.09438
RRP1B	712.735	-0.2703	0.0771	-3.506	0.00045	0.00941
PSMC4	819.166	-0.2701	0.08937	-3.0224	0.00251	0.02889
GOT2	907.28	-0.2691	0.10317	-2.6085	0.00909	0.06834
GOLPH3	1234.27	-0.2691	0.10044	-2.6791	0.00738	0.05944
CEP97	678.952	-0.2689	0.08496	-3.1652	0.00155	0.021
PDIK1L	172.106	-0.2681	0.09636	-2.7818	0.00541	0.0478
DHX30	947.415	-0.2679	0.09583	-2.7955	0.00518	0.04638
CREB1	1761.91	-0.2678	0.10015	-2.6737	0.0075	0.06002
H2AZ2	1502.46	-0.2677	0.10064	-2.6599	0.00782	0.06181
THRAP3	2484.99	-0.267	0.09144	-2.9197	0.0035	0.03604
HMOX2	311.528	-0.2668	0.1061	-2.5141	0.01193	0.0817
CD2BP2	746.725	-0.2665	0.08273	-3.222	0.00127	0.0185
NSMCE2	174.64	-0.2661	0.07619	-3.4925	0.00048	0.00972
FAM161A	168.967	-0.266	0.10436	-2.549	0.0108	0.07647
SSU72	768.488	-0.2653	0.09509	-2.7903	0.00527	0.04685
CAMSAP	818.322	-0.2649	0.09214	-2.8748	0.00404	0.03958

PHF13	471.404	-0.2647	0.10941	-2.4189	0.01557	0.09739
0.271	333.126	-0.2635	0.08577	-3.072	0.00213	0.02583
CUL3	962.968	-0.2635	0.07979	-3.3025	0.00096	0.01556
ATF6	1050.61	-0.263	0.06269	-4.196	2.72E-05	0.00135
RSRC1	654.117	-0.2623	0.07425	-3.5322	0.00041	0.00879
UTP15	182.334	-0.2622	0.09629	-2.7233	0.00646	0.05412
SRFBP1	449.725	-0.2619	0.06193	-4.2289	2.35E-05	0.0012
MYCBP	352.307	-0.2617	0.10143	-2.5802	0.00987	0.0722
HIP1	1473.89	-0.2616	0.10082	-2.5952	0.00945	0.07008
POLD3	404.099	-0.2608	0.08927	-2.9213	0.00349	0.03587
RNF138	765.387	-0.2601	0.08914	-2.9184	0.00352	0.03614
FAM98B	1030.23	-0.2598	0.08595	-3.0222	0.00251	0.02889
CTCF	1171.56	-0.2593	0.08538	-3.0368	0.00239	0.02788
PTGES3	2571.45	-0.259	0.08216	-3.1527	0.00162	0.02155
RIMOC1	898.234	-0.2582	0.07839	-3.2933	0.00099	0.01593
NELFB	594.754	-0.257	0.06707	-3.8322	0.00013	0.004
RAB6A	1841.72	-0.2564	0.08057	-3.1818	0.00146	0.02029
SNX4	414.959	-0.2562	0.06905	-3.7107	0.00021	0.00568
C19orf47	240.059	-0.2562	0.0918	-2.7905	0.00526	0.04685
COX10	273.196	-0.2558	0.09937	-2.5741	0.01005	0.07304
KIAA0232	979.812	-0.2549	0.09818	-2.5958	0.00944	0.07004
TFB2M	188.262	-0.2539	0.10258	-2.4756	0.0133	0.08814
MAP3K1K	329.665	-0.2539	0.08475	-2.9958	0.00274	0.03068
KIF2A	1481.67	-0.2538	0.09934	-2.5549	0.01062	0.07572
PPP2R5E	764.021	-0.2536	0.08522	-2.9751	0.00293	0.03195
MOB1A	2021.61	-0.2527	0.09484	-2.6648	0.0077	0.06114
PRPSAP1	277.713	-0.2519	0.09217	-2.7334	0.00627	0.0532
ISG20L2	579.745	-0.2516	0.09611	-2.6183	0.00884	0.0671
PPP1R7	377.048	-0.25	0.09578	-2.61	0.00906	0.06815
USP1	641.581	-0.2499	0.10336	-2.4181	0.0156	0.09755
YTHDF2	987.961	-0.2499	0.08345	-2.9944	0.00275	0.03079
HBS1L	1017.99	-0.2497	0.08496	-2.9392	0.00329	0.03453
ZDHHC5	1259.95	-0.2496	0.07593	-3.2869	0.00101	0.01614
GUCD1	658.505	-0.248	0.10268	-2.4156	0.01571	0.09794
TMEM24	134.783	-0.2473	0.10267	-2.4089	0.016	0.09904
CEP152	421.236	-0.2473	0.0753	-3.2837	0.00102	0.01625
SEPTIN2	6342.47	-0.2472	0.09311	-2.6551	0.00793	0.06244
FBXO33	324.572	-0.2464	0.08357	-2.9486	0.00319	0.03382
GNA11	938.135	-0.2462	0.0863	-2.8531	0.00433	0.04146
VPS26A	600.596	-0.2458	0.08149	-3.0162	0.00256	0.02932
GZF1	368.133	-0.2453	0.07354	-3.3353	0.00085	0.01451
AGL	921.075	-0.2453	0.09487	-2.5852	0.00973	0.07147
BMS1	712.651	-0.2436	0.10033	-2.4275	0.0152	0.09602
USP38	474.677	-0.2435	0.09333	-2.6086	0.00909	0.06834
SMARCD1	976.6	-0.2431	0.09191	-2.6446	0.00818	0.06378
CEP89	497.008	-0.2429	0.09314	-2.6073	0.00913	0.06843
MAP9	783.909	-0.2423	0.0981	-2.4695	0.01353	0.08913
PARG	330.592	-0.2419	0.08625	-2.8046	0.00504	0.04556
MRPL27	338.882	-0.2413	0.07815	-3.088	0.00202	0.02495
CLUAP1	621.672	-0.2409	0.08377	-2.875	0.00404	0.03958
MAD2L1E	184.965	-0.2406	0.09547	-2.5198	0.01174	0.08097
STYX	669.229	-0.2406	0.0811	-2.9661	0.00302	0.03253
PDCD7	534.922	-0.2401	0.08487	-2.8293	0.00466	0.0433
ACTR1A	1092.41	-0.2396	0.09904	-2.4193	0.01555	0.09735
CUL2	418.282	-0.2395	0.09536	-2.5113	0.01203	0.08215
LARP4	1125.96	-0.2391	0.09087	-2.6309	0.00852	0.06559

DDX19B	444.287	-0.2389	0.08856	-2.6979	0.00698	0.05738
ELP4	641.594	-0.2387	0.09241	-2.5833	0.00979	0.07176
MED20	330.097	-0.2385	0.09769	-2.4417	0.01462	0.0938
SOCS4	878.611	-0.2369	0.07402	-3.2008	0.00137	0.01945
UBE2N	1021.58	-0.2364	0.08384	-2.8192	0.00481	0.04418
PSMD11	802.454	-0.2358	0.0664	-3.5511	0.00038	0.0084
OPA1	909.643	-0.2347	0.07896	-2.9723	0.00296	0.03213
TSR1	732.306	-0.2342	0.08016	-2.9218	0.00348	0.03583
PIP4K2C	408.695	-0.234	0.09281	-2.5209	0.0117	0.08077
GPATCH	749.932	-0.2322	0.06833	-3.3986	0.00068	0.01239
OXSR1	678.107	-0.2317	0.07171	-3.2317	0.00123	0.0182
RBBP5	425.343	-0.2316	0.08609	-2.6898	0.00715	0.05827
PSMB4	1271.54	-0.2315	0.09143	-2.5323	0.01133	0.07899
WDR25	142.281	-0.2305	0.0946	-2.4362	0.01484	0.09438
GANAB	4937.4	-0.2294	0.08977	-2.5558	0.0106	0.07562
CHMP7	589.125	-0.2291	0.09338	-2.4536	0.01414	0.09187
BCKDK	620.952	-0.2283	0.08651	-2.6395	0.0083	0.06439
ZNF317	645.235	-0.2269	0.09237	-2.4562	0.01404	0.09147
CRCP	512.456	-0.2259	0.07527	-3.0017	0.00268	0.03028
SDHA	1192.59	-0.2237	0.08271	-2.7048	0.00683	0.05639
MED21	274.302	-0.2205	0.08567	-2.5739	0.01006	0.07304
CIPC	724.678	-0.2173	0.08126	-2.6748	0.00748	0.05991
DDX41	694.21	-0.2165	0.0797	-2.717	0.00659	0.05479
GATC	683.299	-0.2164	0.08258	-2.6202	0.00879	0.06682
DENND1	512.08	-0.2161	0.07633	-2.8312	0.00464	0.04313
MTA2	1138.58	-0.2155	0.07835	-2.7498	0.00596	0.05137
ALG10B	562.7	-0.2152	0.07918	-2.7176	0.00658	0.05477
MAPK9	638.259	-0.2103	0.07529	-2.7937	0.00521	0.04653
FOXK2	927.878	-0.2101	0.06417	-3.2737	0.00106	0.01665
FAM53C	926.744	-0.21	0.08585	-2.4455	0.01447	0.09318
RNPEP	771.463	-0.2082	0.0864	-2.4097	0.01597	0.09893
GRPEL1	360.298	-0.2073	0.07089	-2.9249	0.00345	0.03563
SNW1	805.212	-0.2057	0.08153	-2.5225	0.01165	0.08047
CSNK1G	841.954	-0.2047	0.04059	-5.0438	4.56E-07	8.13E-05
ARMC1	449.307	-0.2045	0.08311	-2.4603	0.01388	0.09078
MATR3	6638.71	-0.2036	0.07998	-2.5461	0.01089	0.07698
USP39	615.32	-0.2028	0.07558	-2.6836	0.00728	0.05894
MBTPS2	345.908	-0.2026	0.07984	-2.5381	0.01114	0.07805
RMDN3	408.488	-0.2024	0.0759	-2.6665	0.00766	0.061
RNF41	613.172	-0.2017	0.06489	-3.1087	0.00188	0.02383
PIP4K2A	716.83	-0.1996	0.06838	-2.919	0.00351	0.03611
MGRN1	1323.21	-0.1976	0.08084	-2.4443	0.01452	0.09341
TBCCD1	205.812	-0.1975	0.07991	-2.4713	0.01346	0.08894
LRRC47	557.265	-0.1959	0.07998	-2.4499	0.01429	0.09236
UBE3C	1202.35	-0.1912	0.07181	-2.6628	0.00775	0.06145
RSPRY1	707.897	-0.1838	0.06573	-2.7959	0.00517	0.04636
GRSF1	811.646	-0.1811	0.0675	-2.6826	0.00731	0.05902
PHF20	795.467	-0.1795	0.06025	-2.9797	0.00288	0.03174
POLR3D	595.271	-0.1788	0.06575	-2.72	0.00653	0.05452
ZNF92	497.291	-0.1757	0.07297	-2.408	0.01604	0.09919
DDX19A	713	-0.1689	0.05518	-3.0614	0.0022	0.02643
G2E3	699.872	-0.1655	0.05922	-2.7943	0.0052	0.04648
FAM91A	787.86	-0.1641	0.06487	-2.5297	0.01142	0.07933
GID8	760.394	-0.1578	0.055	-2.8693	0.00411	0.04008
ZUP1	401.489	-0.1556	0.049	-3.1749	0.0015	0.02061
ZNF800	753.857	-0.1494	0.05687	-2.6269	0.00862	0.06595

RRN3	514.764	-0.1461	0.06044	-2.4172	0.01564	0.09768
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