

Supplementary Table. Differential expression of genes associated with GCN5 knockdown.

Genes shown are all significant after adjusting the p-values for multiple testing based on the false discovery rate method (adjusted $p < 0.10$). Genes that were differentially regulated by GCN5 silencing [T vs NT] and were range of ≥ 1.5 fold to ≤ 2.5 fold only, are shown in this table.

Gene Symbol	Fold change	logFC	AveExpr	t	P.Value	adj.P.Val	Prob of Diff Ex	Pubmed ID
FYCO1	2.49	1.318946	8.81	13.82	6.11E-09	5.18E-06	0.999983	4868
TEAD2	2.47	1.304106	9.81	7.93	3.19E-06	0.000258	0.992605	13232
TMEM45A	2.46	1.301321	10.38	9.39	5.15E-07	9.35E-05	0.998788	13570
FND3A	2.46	1.298182	9.23	11.81	3.84E-08	1.83E-05	0.999903	4766
IGFBP7	2.45	1.290799	8.89	6.36	3.00E-05	0.001116	0.933044	6243
VGF	2.42	1.277906	8.81	6.71	1.78E-05	0.000799	0.959557	14401
SP140	2.42	1.277282	8.34	4.23	0.001075	0.011504	0.27046	12656
SMPDL3A	2.41	1.269333	8.82	9.86	2.99E-07	6.85E-05	0.999289	12477
RAF1	2.41	1.268832	9.44	14.61	3.19E-09	3.24E-06	0.99999	10980
RTKN	2.41	1.267058	11.53	9.28	5.82E-07	0.000101	0.998634	11639
C4orf18	2.39	1.254274	9.22	9.55	4.27E-07	8.56E-05	0.998993	1906
FST	2.38	1.252832	12.02	9.08	7.39E-07	0.000109	0.998268	4819
CDKN2B	2.38	1.248617	8.95	5.34	0.000154	0.003157	0.725691	2559
WIP1	2.34	1.228062	9.48	12.06	3.00E-08	1.64E-05	0.999923	14583
SMARCD1	2.31	1.209529	11.53	9.89	2.89E-07	6.85E-05	0.999312	12450
FBXO21	2.30	1.204621	10.89	11.40	5.75E-08	2.14E-05	0.999857	4521
C17orf63	2.30	1.201372	9.87	8.26	2.07E-06	0.000213	0.995175	1589
CCNG1	2.30	1.200704	12.22	5.62	9.65E-05	0.002364	0.810044	2380
EGFR	2.30	1.199502	9.00	7.87	3.47E-06	0.000274	0.991952	3971
CHURC1	2.29	1.195124	9.45	11.36	5.99E-08	2.17E-05	0.999851	2745
ARG2	2.29	1.194953	9.52	4.07	0.001426	0.013985	0.218087	698
MTP	2.29	1.193966	9.77	6.53	2.33E-05	0.000968	0.947433	8803
CHN2	2.29	1.193893	10.00	8.44	1.63E-06	0.000182	0.996194	2722
B3GALT6	2.29	1.192545	9.03	11.50	5.19E-08	2.01E-05	0.99987	1055
FND3A	2.29	1.192382	9.20	8.01	2.85E-06	0.000243	0.993381	4767
C5orf32	2.28	1.191391	10.61	9.89	2.87E-07	6.85E-05	0.999319	1932
CCND2	2.28	1.189509	8.14	5.75	7.89E-05	0.002081	0.839564	2371
MBNL2	2.23	1.159058	10.73	6.32	3.18E-05	0.001147	0.929326	8234
BTG3	2.23	1.158694	11.09	9.26	5.94E-07	0.000102	0.998604	1319
RBPM2	2.22	1.150951	8.75	7.60	4.98E-06	0.000348	0.988462	11126
SLC25A22	2.22	1.147557	8.83	12.63	1.76E-08	1.10E-05	0.999954	12222
MLL11	2.20	1.139098	10.11	4.90	0.000326	0.005169	0.553044	8499
WDR72	2.19	1.134047	10.44	9.52	4.38E-07	8.67E-05	0.998968	14556
WDR40A	2.19	1.129071	10.38	9.68	3.65E-07	7.73E-05	0.999136	14526
TAGLN3	2.17	1.117833	8.50	3.77	0.002503	0.020317	0.136865	13097
TRAK1	2.16	1.110207	9.28	9.74	3.40E-07	7.39E-05	0.999194	13786
PC	2.16	1.109586	9.65	8.00	2.89E-06	0.000243	0.993279	9740
ATAD1	2.16	1.107956	10.56	11.98	3.25E-08	1.71E-05	0.999917	874
DSCR6	2.15	1.103656	8.99	6.29	3.32E-05	0.001187	0.926387	3794
CREB3L2	2.15	1.103642	10.53	5.92	5.98E-05	0.001707	0.873951	3072
IGFBP1	2.15	1.102804	14.19	6.04	4.94E-05	0.001534	0.89383	6239
FST	2.15	1.102353	9.96	9.33	5.52E-07	9.79E-05	0.998702	4818
IGSF1	2.14	1.100499	9.27	4.95	0.000297	0.004834	0.576641	6246
CPVL	2.14	1.097281	11.71	4.65	0.000506	0.006987	0.442411	3058
INPP1	2.14	1.096726	11.38	8.67	1.23E-06	0.000152	0.997135	6334
SP140	2.13	1.093065	8.19	4.49	0.000672	0.008439	0.373433	12655

FCGRT	2.13	1.092933	10.56	6.40	2.83E-05	0.001078	0.936779	4569
MAP1LC3B	2.13	1.090184	10.70	12.13	2.82E-08	1.59E-05	0.999927	8104
DUSP6	2.13	1.088504	11.05	5.98	5.45E-05	0.00163	0.883871	3849
LGALS8	2.13	1.087687	10.86	9.58	4.11E-07	8.47E-05	0.99903	6955
UCRC	2.12	1.084957	9.30	10.03	2.46E-07	6.35E-05	0.999414	14208
TSPAN7	2.12	1.081955	10.49	10.75	1.12E-07	3.56E-05	0.999727	13938
FMO5	2.11	1.079389	10.75	4.15	0.001245	0.01266	0.242249	4756
LRP10	2.10	1.073487	10.14	8.68	1.22E-06	0.000152	0.997157	7915
ERP27	2.10	1.072857	12.23	4.24	0.00105	0.011344	0.275109	4188
DLK1	2.08	1.059265	10.96	4.50	0.000662	0.008325	0.37704	3643
SLC35F2	2.08	1.055686	10.04	5.08	0.000241	0.004218	0.62776	12317
MGC24039	2.08	1.05354	9.21	10.04	2.43E-07	6.35E-05	0.99942	8400
BTG3	2.07	1.052957	9.78	9.02	7.97E-07	0.000114	0.998135	1320
TMEM107	2.07	1.051571	8.90	5.86	6.53E-05	0.001804	0.86376	13455
MBNL1	2.07	1.051142	9.21	10.14	2.17E-07	5.92E-05	0.999482	8231
ZFP36L1	2.07	1.047267	10.75	4.89	0.000329	0.005176	0.550798	14807
SERPINE2	2.07	1.047192	13.20	6.43	2.69E-05	0.001044	0.9397	11963
SLC35B1	2.07	1.046263	11.52	8.00	2.89E-06	0.000243	0.993295	12305
DUSP6	2.06	1.044617	9.57	4.94	0.000304	0.004919	0.57084	3850
TMEM45A	2.04	1.030141	9.44	6.26	3.51E-05	0.001228	0.922479	13569
FBLN1	2.04	1.028962	10.74	5.12	0.000224	0.004015	0.644637	4496
MXRA7	2.03	1.021865	10.67	5.73	8.12E-05	0.00212	0.835601	8834
FIGNL2	2.03	1.01865	8.11	8.12	2.49E-06	0.000233	0.99422	7223
IL8	2.02	1.015756	13.45	4.20	0.001131	0.011933	0.260402	6299
PON3	2.02	1.013222	9.73	6.97	1.20E-05	0.000636	0.972336	10338
SET	2.01	1.010556	11.24	7.21	8.51E-06	0.000519	0.980354	11976
HK1	2.01	1.010376	10.62	4.25	0.001038	0.011253	0.277452	5564
CPVL	2.01	1.009397	11.02	3.86	0.002119	0.018143	0.157748	3059
PROS1	2.01	1.008023	11.46	5.95	5.72E-05	0.001654	0.87887	10586
CDKN2B	2.01	1.006624	8.31	5.60	0.0001	0.002399	0.803885	2560
CRLF1	2.01	1.006316	8.35	9.00	8.15E-07	0.000115	0.998093	3093
VCL	2.01	1.004797	12.10	5.92	5.95E-05	0.001706	0.874478	14388
CD59	1.99	0.993616	8.31	6.08	4.65E-05	0.001481	0.899456	2451
KLF15	1.98	0.987232	8.35	8.19	2.27E-06	0.000228	0.994731	6762
IL8	1.98	0.987159	12.41	4.42	0.000759	0.009153	0.344969	6300
DNM1L	1.98	0.986144	9.76	6.11	4.44E-05	0.001421	0.903538	3719
CCNY	1.98	0.984997	9.45	9.16	6.71E-07	0.000105	0.998427	2395
KDELR3	1.98	0.982307	10.54	7.65	4.63E-06	0.000328	0.98928	6556
CIDEB	1.97	0.978575	11.19	9.46	4.73E-07	9.12E-05	0.998887	2753
ZNF189	1.97	0.977732	10.04	6.26	3.48E-05	0.001226	0.923031	14901
PIK3R2	1.97	0.977698	12.22	8.74	1.12E-06	0.000144	0.997386	10083
C8A	1.97	0.976066	10.09	4.58	0.000576	0.007655	0.410591	2020
RAB3GAP1	1.96	0.970287	11.09	9.62	3.91E-07	8.16E-05	0.999077	10905
RNASEH1	1.96	0.970107	10.10	7.01	1.14E-05	0.000615	0.97386	11319
GAMT	1.96	0.968868	10.68	4.57	0.000582	0.007697	0.407969	4939
NMD3	1.96	0.967562	10.65	7.32	7.29E-06	0.000467	0.98315	9196
TOMM34	1.95	0.963402	11.80	5.26	0.000177	0.003449	0.696918	13695
VPS24	1.95	0.961504	9.60	9.11	7.18E-07	0.000108	0.998316	14423
APOM	1.95	0.961419	11.89	5.43	0.000132	0.002835	0.756272	652
SYF2	1.94	0.959585	9.94	10.17	2.11E-07	5.92E-05	0.999494	13026
RECK	1.94	0.957812	8.24	11.64	4.55E-08	1.95E-05	0.999885	11160
HPRT1	1.94	0.955254	11.91	8.13	2.44E-06	0.000233	0.994324	5686

FOXN3	1.93	0.95232	10.56	5.16	0.000207	0.003833	0.662191	2696
SLC26A3	1.93	0.948119	8.38	5.95	5.71E-05	0.001654	0.879045	12255
LGALS8	1.92	0.944602	10.74	6.91	1.31E-05	0.00066	0.969927	6954
TSPAN7	1.92	0.942506	9.65	8.04	2.75E-06	0.000243	0.993619	13939
IL27RA	1.91	0.936253	8.91	8.79	1.05E-06	0.000138	0.997543	6288
MAPK6	1.91	0.932498	12.29	4.50	0.000655	0.008291	0.37938	8155
SLC2A10	1.91	0.932432	10.00	4.85	0.000353	0.005403	0.533264	12272
PLCH2	1.89	0.91951	10.32	4.11	0.001324	0.01327	0.23104	10165
DHRS3	1.89	0.916122	10.55	8.63	1.29E-06	0.000158	0.996983	3551
SLC7A9	1.89	0.915276	9.53	5.67	8.88E-05	0.002246	0.822714	12403
GPT2	1.88	0.913513	12.94	4.83	0.00037	0.005575	0.521599	5251
ANKRD13A	1.88	0.911597	11.06	7.27	7.85E-06	0.00049	0.981881	516
DNM1L	1.88	0.910005	9.40	5.75	7.79E-05	0.002063	0.841255	3721
MDK	1.88	0.909397	8.28	9.23	6.20E-07	0.000102	0.998545	8285
USP16	1.88	0.908079	10.01	9.19	6.49E-07	0.000103	0.998477	14311
TOB1	1.88	0.907073	10.74	5.62	9.71E-05	0.002364	0.809026	13684
UCRC	1.87	0.906781	9.34	6.92	1.31E-05	0.00066	0.969977	14209
CCDC92	1.87	0.906333	10.46	6.26	3.51E-05	0.001228	0.922567	2347
USP16	1.87	0.90304	10.41	8.91	9.07E-07	0.000125	0.997878	14312
LARP6	1.87	0.900722	8.33	3.79	0.002418	0.019804	0.141007	6895
RBBP9	1.87	0.899999	10.41	5.03	0.000262	0.004428	0.606923	11064
EVII	1.87	0.899509	8.35	2.83	0.014745	0.067458	0.026751	4226
NDRG4	1.86	0.897448	11.89	7.83	3.65E-06	0.000281	0.991527	9017
ANTXR1	1.86	0.895584	9.25	4.24	0.001058	0.011386	0.273654	561
NAT8B	1.86	0.894198	9.35	4.32	0.000906	0.010241	0.305739	8948
BDH1	1.85	0.889959	9.29	5.09	0.000235	0.004138	0.632839	1178
COBLL1	1.85	0.889068	11.47	5.39	0.000142	0.00297	0.741786	2912
CYGB	1.85	0.886191	10.61	3.09	0.00903	0.048858	0.042489	3305
SGSH	1.85	0.885551	10.07	5.28	0.000169	0.003353	0.70665	12056
NOPE	1.85	0.884486	8.54	8.75	1.11E-06	0.000144	0.997408	9263
HMGCL	1.84	0.883217	9.37	9.97	2.63E-07	6.68E-05	0.999374	5602
IL17D	1.84	0.877443	9.20	7.07	1.04E-05	0.00059	0.975952	6272
PTPRK	1.84	0.877001	10.73	3.37	0.005242	0.033528	0.070537	10791
ACAD11	1.84	0.8761	10.51	5.98	5.46E-05	0.00163	0.883727	105
LRRC8B	1.83	0.875102	10.34	5.83	6.92E-05	0.001878	0.856637	5911
ASF1A	1.83	0.87106	10.62	7.55	5.34E-06	0.000369	0.987634	843
PPARG	1.83	0.869998	11.23	8.45	1.63E-06	0.000182	0.996212	10363
NPAS1	1.82	0.865014	8.50	6.84	1.47E-05	0.000709	0.966404	9275
METTL7B	1.82	0.863096	9.60	8.82	1.02E-06	0.000136	0.99762	8361
KIAA1199	1.82	0.862916	11.96	3.46	0.004505	0.030416	0.08107	6653
INHBE	1.82	0.861168	8.58	4.50	0.000656	0.008292	0.379165	6332
RHOBTB3	1.81	0.858253	11.02	5.83	6.94E-05	0.00188	0.856324	11267
CMBL	1.81	0.852027	12.27	8.59	1.36E-06	0.000162	0.996826	2854
ANAPC1	1.80	0.850903	10.27	8.13	2.46E-06	0.000233	0.994287	484
IGFBP4	1.80	0.849436	8.99	4.40	0.000785	0.009349	0.337482	6241
GDE1	1.80	0.846691	9.67	9.23	6.19E-07	0.000102	0.998547	5006
RPS6KB1	1.79	0.84103	9.93	6.13	4.28E-05	0.00138	0.906858	11582
C8orf4	1.79	0.836041	10.63	4.67	0.000487	0.006804	0.452157	2028
LOC644310	1.78	0.835505	9.32	5.95	5.67E-05	0.001654	0.879699	7413
ITGA10	1.78	0.835441	8.13	7.00	1.17E-05	0.000626	0.973207	6419
CHN2	1.78	0.835215	9.09	5.42	0.000135	0.002872	0.75252	2721
PLOD2	1.78	0.834936	9.33	5.30	0.000164	0.003294	0.71373	10209

KLHDC5	1.78	0.834549	8.97	9.41	5.02E-07	9.33E-05	0.998819	6772
SLC2A2	1.78	0.833448	11.07	4.59	0.000559	0.00752	0.417883	12276
ROD1	1.78	0.832814	11.62	6.44	2.67E-05	0.00104	0.940064	11411
FOXA3	1.78	0.83142	10.81	7.86	3.49E-06	0.000274	0.991898	4778
DAP	1.78	0.830985	10.69	4.53	0.000628	0.008038	0.389616	3345
NPLOC4	1.78	0.830946	9.01	11.60	4.70E-08	1.95E-05	0.999882	9291
LOC285733	1.78	0.829501	10.36	5.87	6.42E-05	0.001781	0.865773	7120
SLAIN1	1.78	0.828612	8.61	5.43	0.000133	0.002847	0.754664	12155
BOLA2	1.77	0.823455	12.84	7.11	9.92E-06	0.000571	0.977158	1239
GOLIM4	1.77	0.820885	9.62	5.16	0.000209	0.003842	0.660157	5170
CYP4F3	1.77	0.820532	9.04	3.37	0.005335	0.033946	0.06941	3328
HPRT1	1.76	0.81917	10.53	5.49	0.00012	0.002706	0.774265	5687
DNAJC12	1.76	0.818337	11.22	6.49	2.47E-05	0.000992	0.944333	3692
ETFB	1.76	0.814997	11.85	4.90	0.000325	0.005169	0.553896	4209
LOC401152	1.76	0.814766	9.60	6.94	1.27E-05	0.000651	0.97091	7215
AGPAT5	1.75	0.809901	9.16	4.96	0.000296	0.004821	0.577868	310
LRIG1	1.75	0.806661	9.50	4.48	0.000677	0.008483	0.371621	7912
CCDC115	1.75	0.806623	9.76	6.94	1.26E-05	0.00065	0.971106	2271
VPS24	1.75	0.805693	10.55	7.44	6.19E-06	0.000411	0.985676	14422
UBE2E3	1.75	0.804915	11.32	4.22	0.0011	0.011705	0.265936	14127
BTF3L4	1.75	0.804728	10.54	6.36	3.00E-05	0.001116	0.933088	1316
PIK3AP1	1.74	0.80283	8.87	7.15	9.38E-06	0.00055	0.978387	10073
C12orf57	1.74	0.800273	10.82	4.93	0.000307	0.004939	0.56842	1445
KDELR3	1.74	0.799901	10.66	6.19	3.92E-05	0.001307	0.914185	6555
ITM2C	1.74	0.7997	10.29	7.31	7.42E-06	0.000471	0.982864	6445
SLC4A7	1.74	0.79905	9.84	5.60	0.000101	0.002399	0.803489	12380
ZNF271	1.74	0.79761	9.29	6.36	3.01E-05	0.001116	0.932981	14951
C4orf16	1.74	0.796556	9.13	5.84	6.82E-05	0.001868	0.858434	1905
CNIH	1.74	0.795819	10.92	5.94	5.79E-05	0.001669	0.877523	5801
TNFRSF14	1.73	0.794908	10.73	4.74	0.000431	0.006213	0.482806	13649
TMEM30A	1.73	0.793283	8.75	5.84	6.77E-05	0.001858	0.859323	13554
LY96	1.73	0.789443	8.95	6.51	2.40E-05	0.000973	0.945996	7997
CRIM1	1.73	0.788608	9.05	5.53	0.000112	0.002579	0.785552	3083
GAMT	1.73	0.788462	11.21	3.99	0.001677	0.015604	0.191562	4938
MFGE8	1.73	0.787104	8.99	10.78	1.09E-07	3.55E-05	0.999734	8372
KIAA0256	1.73	0.787097	8.76	9.15	6.81E-07	0.000106	0.998403	6589
C14orf149	1.72	0.785308	9.56	3.78	0.002462	0.020078	0.138808	1492
FAM152B	1.72	0.784127	10.22	6.79	1.58E-05	0.000741	0.963826	4372
DNAJC12	1.72	0.783433	10.80	4.84	0.00036	0.005476	0.528153	3693
CMIP	1.72	0.783321	11.49	4.20	0.001136	0.01197	0.259677	2855
LAMP2	1.72	0.781524	11.63	5.64	9.32E-05	0.002327	0.815401	6872
HMGCS2	1.72	0.780706	8.47	4.56	0.000595	0.007805	0.402636	5605
SEC24D	1.71	0.777727	9.54	4.74	0.000431	0.006213	0.483001	11862
SELT	1.71	0.777585	9.88	6.45	2.60E-05	0.00102	0.941608	11887
ETFDH	1.71	0.777344	9.88	6.14	4.21E-05	0.001363	0.908302	4211
ITM2C	1.71	0.775813	10.70	8.14	2.41E-06	0.000233	0.994398	6446
DIABLO	1.71	0.773932	12.39	8.67	1.23E-06	0.000152	0.997123	3584
MFAP3	1.71	0.772812	8.84	6.94	1.26E-05	0.00065	0.97108	8370
ST6GAL1	1.71	0.772506	12.22	3.71	0.002799	0.022136	0.124148	12837
SOAT2	1.71	0.771975	8.47	6.20	3.86E-05	0.001295	0.915231	12604
CCL16	1.71	0.77012	10.70	2.91	0.01271	0.061257	0.030782	2353
C3orf21	1.71	0.769931	10.35	4.93	0.000307	0.004939	0.568552	1870

C10orf32	1.70	0.768321	10.68	5.37	0.000146	0.003024	0.73725	1359
KIAA0430	1.70	0.76756	11.25	3.45	0.004548	0.030613	0.080364	6607
C4orf32	1.70	0.765905	9.08	6.42	2.76E-05	0.00106	0.938272	1914
CCBL2	1.70	0.763791	9.88	4.04	0.001514	0.01459	0.207937	2254
C1orf115	1.70	0.761747	11.02	5.76	7.68E-05	0.002041	0.843133	1676
TMC6	1.69	0.759419	9.24	5.72	8.23E-05	0.002136	0.8336	13427
UCP2	1.69	0.759032	9.36	3.63	0.003241	0.0245	0.109083	14205
TSPAN9	1.69	0.758487	11.59	5.43	0.000132	0.00284	0.755688	13941
ABCC5	1.69	0.756918	8.57	5.53	0.000112	0.002579	0.785542	51
SERPIND1	1.69	0.756744	10.75	4.33	0.000894	0.010173	0.308571	11961
TRIM2	1.69	0.756312	8.62	6.01	5.19E-05	0.001581	0.888855	13815
GDAP2	1.69	0.754578	8.42	6.52	2.34E-05	0.000968	0.947166	5005
IKBKG	1.69	0.754497	11.04	8.26	2.06E-06	0.000213	0.995203	6258
SH3BGRL2	1.69	0.753191	10.95	6.61	2.07E-05	0.000901	0.953079	12068
EMP3	1.68	0.751503	10.31	2.73	0.017761	0.076518	0.022438	4090
LAMP2	1.68	0.75069	10.69	4.47	0.000694	0.008626	0.365667	6874
MAGED1	1.68	0.749806	11.43	2.66	0.020314	0.084071	0.019767	8059
LOC145842	1.68	0.749799	8.09	7.85	3.52E-06	0.000276	0.991826	5899
CFB	1.68	0.748821	10.49	4.15	0.001246	0.012665	0.242055	2652
C2CD2	1.68	0.748608	9.89	7.11	9.88E-06	0.000571	0.977241	1836
C10orf32	1.68	0.745643	10.82	6.18	3.96E-05	0.001313	0.913296	1360
LGALS1	1.68	0.744664	13.03	3.21	0.007167	0.041567	0.052763	6949
ARMCX6	1.67	0.742518	9.27	5.18	0.000202	0.00378	0.668138	783
PCOLCE2	1.67	0.741888	11.32	6.37	2.97E-05	0.001112	0.933696	9789
LMBRD2	1.67	0.740995	9.13	4.53	0.000625	0.008022	0.390432	5800
EIF4EBP2	1.67	0.739587	9.94	6.20	3.84E-05	0.001292	0.91575	4035
CSF3R	1.67	0.738819	8.28	3.59	0.003495	0.025706	0.101982	3137
C1RL	1.67	0.738609	8.85	6.22	3.70E-05	0.001277	0.918591	1746
PC	1.67	0.738545	8.67	6.13	4.32E-05	0.00139	0.906028	9739
SFXN1	1.67	0.738448	9.86	3.86	0.002117	0.018143	0.157884	12036
LSM1	1.67	0.738119	12.61	7.25	8.12E-06	0.000501	0.981265	7966
C22orf16	1.67	0.737964	11.31	4.40	0.000794	0.009412	0.334911	1826
IGFBP2	1.67	0.737108	10.82	2.93	0.012048	0.058992	0.032377	6240
HEBP1	1.67	0.73696	10.85	6.15	4.18E-05	0.00136	0.908815	5464
C6orf192	1.67	0.736735	10.01	5.66	9.09E-05	0.002286	0.819211	1969
BNIP3L	1.67	0.736703	8.43	5.18	0.000203	0.00378	0.66763	1234
NMD3	1.67	0.735724	9.85	5.63	9.53E-05	0.002352	0.811996	9197
RPAIN	1.66	0.734771	11.30	8.04	2.76E-06	0.000243	0.993598	11423
CIDEC	1.66	0.734009	11.63	6.40	2.84E-05	0.001079	0.936592	2754
LRBA	1.66	0.73322	9.54	4.52	0.00063	0.008066	0.388558	7902
SH3PXD2A	1.66	0.732733	11.08	4.87	0.000341	0.005293	0.541797	12079
PPARG	1.66	0.732193	9.22	7.04	1.09E-05	0.000603	0.97501	10364
KCTD14	1.66	0.729765	10.03	6.41	2.76E-05	0.00106	0.938142	6537
ACTA2	1.66	0.729678	14.05	9.04	7.83E-07	0.000113	0.998167	180
RRAGA	1.66	0.729442	12.57	10.13	2.21E-07	5.92E-05	0.999471	11601
HBP1	1.66	0.727535	9.25	8.79	1.06E-06	0.000138	0.997527	5426
ROD1	1.65	0.725305	11.77	6.09	4.60E-05	0.001467	0.900535	11410
SEPHS1	1.65	0.725135	11.27	6.29	3.33E-05	0.001187	0.926232	11908
ART4	1.65	0.724718	9.30	5.34	0.000155	0.003158	0.72535	816
RNMT	1.65	0.722426	10.23	7.19	8.79E-06	0.00053	0.979729	11395
RAN	1.65	0.720277	10.55	5.48	0.000122	0.002736	0.770704	10998
TUBB2B	1.65	0.720169	11.42	4.16	0.001219	0.012485	0.246119	14013

LYVE1	1.65	0.718801	8.07	5.83	6.87E-05	0.001876	0.85748	14622
CMTM8	1.64	0.717155	10.74	5.98	5.43E-05	0.001629	0.884227	2866
ST7	1.64	0.716147	8.79	6.90	1.34E-05	0.000666	0.969378	12841
VCAN	1.64	0.716125	9.92	2.52	0.026211	0.099834	0.015551	14387
HSPB1	1.64	0.715897	12.57	4.60	0.000555	0.007482	0.419487	6122
GRTP1	1.64	0.714815	9.94	4.02	0.001573	0.014989	0.201664	5290
C9orf103	1.64	0.711184	8.89	3.61	0.003359	0.025028	0.105667	2044
PIGH	1.64	0.710944	9.96	7.72	4.23E-06	0.000315	0.990187	10051
SLC2A1	1.64	0.709635	10.78	4.90	0.000326	0.005169	0.553106	12270
PRRG1	1.64	0.709562	9.74	5.11	0.000227	0.004046	0.641658	10625
PTMS	1.64	0.709559	9.05	5.87	6.45E-05	0.001786	0.86516	10751
LRRC8A	1.64	0.709474	9.97	6.92	1.30E-05	0.00066	0.97008	7951
SUPT4H1	1.63	0.708817	10.55	8.27	2.04E-06	0.000213	0.995249	13004
UCKL1	1.63	0.708439	10.99	8.08	2.60E-06	0.000238	0.993951	14202
HIBADH	1.63	0.708328	11.30	4.86	0.000352	0.005396	0.534347	5511
PANK1	1.63	0.708021	10.74	3.88	0.002019	0.017631	0.164297	9668
ARRB1	1.63	0.707152	8.28	6.25	3.54E-05	0.001234	0.921879	798
LOC203547	1.63	0.704414	11.53	5.20	0.000196	0.003701	0.675184	7084
CASP4	1.63	0.70372	11.44	5.46	0.000127	0.00277	0.763722	2201
MBNL1	1.63	0.70336	8.96	7.02	1.13E-05	0.000612	0.974123	8230
PLSCR3	1.63	0.701741	11.25	4.12	0.001312	0.013181	0.232717	10221
TRIM41	1.63	0.700449	8.79	9.14	6.93E-07	0.000106	0.998374	13843
EID2	1.62	0.700354	9.61	5.62	9.66E-05	0.002364	0.809908	3986
KLHDC2	1.62	0.699318	11.45	3.62	0.003319	0.024804	0.106809	6769
MBD6	1.62	0.695483	9.87	4.47	0.000697	0.008635	0.364747	8226
TNRC6B	1.62	0.694777	9.36	8.10	2.56E-06	0.000237	0.994051	13680
MOV10	1.62	0.693451	8.23	8.41	1.70E-06	0.000185	0.996039	8552
CNTNAP1	1.62	0.693428	8.77	6.57	2.19E-05	0.00093	0.950394	2908
KIAA1370	1.62	0.692553	9.09	5.49	0.00012	0.002709	0.773154	6668
PLLP	1.62	0.691873	12.12	4.93	0.000311	0.004998	0.564943	10206
C4orf16	1.61	0.690418	8.65	6.45	2.62E-05	0.001024	0.941237	1904
BAZ2B	1.61	0.68988	8.75	6.19	3.89E-05	0.0013	0.914768	1111
GLT8D1	1.61	0.689396	9.68	5.62	9.70E-05	0.002364	0.809125	5091
IVNS1ABP	1.61	0.688704	8.96	5.03	0.000261	0.004413	0.608013	6460
AXUD1	1.61	0.687945	10.05	3.57	0.003646	0.026429	0.098203	1044
C11orf75	1.61	0.687136	10.39	5.47	0.000125	0.002763	0.766266	1414
MRPL42	1.61	0.683426	9.88	8.17	2.32E-06	0.000232	0.994596	8646
TMEM32	1.61	0.683151	10.89	5.40	0.000139	0.002924	0.746443	13555
ATAD1	1.61	0.682614	9.17	7.67	4.53E-06	0.000325	0.989492	875
GALK1	1.60	0.682486	11.92	3.65	0.003133	0.023945	0.112415	4921
VASN	1.60	0.682476	10.78	3.84	0.002176	0.018455	0.154273	14378
BOLA2	1.60	0.681793	11.40	3.23	0.006858	0.040453	0.054982	1241
KRCC1	1.60	0.681238	8.92	6.21	3.78E-05	0.00128	0.916941	6813
GPER	1.60	0.681124	10.88	6.88	1.38E-05	0.000676	0.968431	5204
FAM104A	1.60	0.680672	11.10	6.28	3.42E-05	0.001215	0.924378	4314
RP1-21O18.1	1.60	0.680188	9.27	9.22	6.28E-07	0.000102	0.998526	6641
AP2M1	1.60	0.679519	10.16	5.81	7.13E-05	0.001914	0.852921	599
GRAMD3	1.60	0.678357	9.34	5.10	0.000231	0.004096	0.636941	5259
RAC1	1.60	0.67799	8.05	5.92	6.00E-05	0.001707	0.873628	10952
TUG1	1.59	0.672749	11.92	4.89	0.00033	0.005176	0.550692	14033
C4BPA	1.59	0.670908	11.31	2.74	0.017237	0.074734	0.023082	1900
BCL2L13	1.59	0.668608	10.57	4.29	0.000969	0.010727	0.291554	1158

SLC37A3	1.59	0.66732	9.42	6.74	1.70E-05	0.000776	0.961145	12322
FJX1	1.59	0.667237	8.64	2.67	0.019766	0.082377	0.020284	4637
ZNF615	1.59	0.667008	8.45	6.79	1.56E-05	0.000736	0.964275	15109
EXOC7	1.59	0.666427	11.02	5.24	0.000182	0.003517	0.691293	4246
SH3D19	1.59	0.665866	10.67	3.51	0.004035	0.028245	0.08961	12073
ISG15	1.59	0.665591	10.53	2.55	0.024684	0.095802	0.016453	6403
MXD4	1.58	0.664039	11.19	3.97	0.001725	0.015852	0.187168	8830
SLC16A9	1.58	0.662732	10.46	4.81	0.000384	0.005731	0.512362	12179
CHD9	1.58	0.662175	9.70	3.74	0.002646	0.021196	0.130418	2690
ITGA6	1.58	0.66177	9.19	5.62	9.67E-05	0.002364	0.809754	6423
KIAA1370	1.58	0.661641	9.16	5.02	0.000263	0.004434	0.60627	6669
SPRY4	1.58	0.661563	9.66	3.14	0.00824	0.045833	0.046303	12736
SLC16A5	1.58	0.660693	8.92	6.15	4.13E-05	0.001348	0.909925	12177
RPS6KA3	1.58	0.659336	9.76	2.71	0.018327	0.07815	0.021783	11577
SEPHS1	1.58	0.659137	10.14	5.29	0.000166	0.003329	0.710676	11909
APOBEC3F	1.58	0.658899	8.36	4.48	0.000688	0.008587	0.367596	640
CCNI	1.58	0.658652	13.32	7.67	4.50E-06	0.000325	0.989559	2385
TMEM37	1.58	0.658615	9.06	3.02	0.010237	0.053077	0.037753	13558
GBA	1.58	0.657995	9.39	4.40	0.000788	0.009368	0.336546	4965
PLLP	1.58	0.656517	11.63	4.57	0.000584	0.007702	0.407194	10207
FBXO8	1.58	0.656492	9.48	6.35	3.05E-05	0.001125	0.932088	4551
PELI1	1.58	0.656258	9.04	5.11	0.000228	0.004055	0.640851	9888
SCMH1	1.57	0.653951	9.93	4.43	0.000751	0.009082	0.34747	11777
IL6ST	1.57	0.653734	10.01	3.62	0.003283	0.02464	0.107866	6015
UBL3	1.57	0.653432	9.94	4.48	0.000688	0.008587	0.367777	14166
FNDC4	1.57	0.653041	8.98	4.97	0.000288	0.004742	0.584076	4768
OSTM1	1.57	0.652936	8.01	6.21	3.78E-05	0.00128	0.916845	9587
RPS23	1.57	0.652584	11.08	6.81	1.54E-05	0.000728	0.964871	11544
KLHL24	1.57	0.652357	8.73	5.46	0.000126	0.002763	0.76541	6788
CDH2	1.57	0.652251	8.24	3.09	0.009001	0.048807	0.042614	2528
F10	1.57	0.650263	10.00	3.49	0.004231	0.029216	0.085825	4274
NDRG2	1.57	0.649889	9.40	5.00	0.000275	0.004589	0.595811	9012
CDK8	1.57	0.64815	8.26	5.28	0.000169	0.003353	0.707089	2548
SLC25A20	1.57	0.647668	9.06	5.68	8.82E-05	0.002234	0.823692	12218
ARMCX6	1.57	0.647633	9.01	5.60	0.000101	0.002399	0.803508	782
HIPK2	1.57	0.647595	10.08	3.43	0.004707	0.031373	0.077871	5529
TIMP1	1.56	0.645887	13.29	2.87	0.013535	0.064015	0.029006	13373
CYBRD1	1.56	0.645145	8.39	4.83	0.00037	0.005575	0.521585	3296
ASIP	1.56	0.645109	8.18	3.70	0.002834	0.02234	0.122821	850
UBE2D3	1.56	0.644534	11.48	5.23	0.000185	0.003553	0.687698	14120
MAOA	1.56	0.644269	11.74	3.95	0.00179	0.016267	0.18163	8100
C5orf41	1.56	0.64409	8.51	6.25	3.55E-05	0.001234	0.921761	1941
IGSF1	1.56	0.643126	8.33	5.05	0.00025	0.004307	0.618709	6247
PPHLN1	1.56	0.642909	10.53	3.99	0.00165	0.015475	0.194087	10379
C4orf34	1.56	0.642354	12.19	6.02	5.11E-05	0.001561	0.890536	1917
TNFSF10	1.56	0.640354	9.57	3.54	0.003831	0.027258	0.093903	13656
IVNS1ABP	1.56	0.640204	8.78	6.91	1.32E-05	0.000665	0.96964	6459
PANX2	1.56	0.63897	7.90	7.13	9.59E-06	0.000556	0.977901	9674
TRIM5	1.56	0.638478	9.31	5.61	9.77E-05	0.002364	0.808068	13848
C2orf30	1.56	0.638383	11.22	4.17	0.001193	0.012354	0.250258	1845
KATNAL1	1.56	0.638094	9.04	6.43	2.72E-05	0.001051	0.939165	6504
IGFBP6	1.56	0.637258	8.36	5.42	0.000136	0.002885	0.750854	6242

JSRP1	1.55	0.63519	8.31	6.04	4.90E-05	0.001532	0.89458	6487
PAQR9	1.55	0.634163	9.62	5.11	0.000226	0.004033	0.642955	9690
BOLA2	1.55	0.632786	13.53	5.32	0.00016	0.003241	0.718169	1243
LOC388610	1.55	0.631958	12.20	5.26	0.000177	0.003446	0.697372	7157
ZIC2	1.55	0.631541	9.66	3.87	0.002067	0.017856	0.161084	14837
KIAA0152	1.55	0.630047	10.57	3.10	0.00874	0.047678	0.043813	6577
BCKDK	1.55	0.629892	11.95	7.18	8.99E-06	0.000536	0.979273	1149
NCOA7	1.55	0.62938	10.11	4.04	0.001516	0.014596	0.20776	8998
CRIP1	1.55	0.629325	9.04	3.95	0.001776	0.016178	0.18281	3084
PEG10	1.55	0.628816	11.19	3.90	0.001972	0.017346	0.167595	9886
C15orf17	1.54	0.626291	9.63	6.94	1.26E-05	0.00065	0.971181	1524
CMPK1	1.54	0.626245	11.22	6.03	4.98E-05	0.001535	0.893066	2856
BTF3L4	1.54	0.623608	9.80	5.88	6.38E-05	0.00178	0.86651	1315
CITED4	1.54	0.623546	10.09	4.24	0.001052	0.011357	0.274739	2766
C10orf65	1.54	0.623449	10.16	3.87	0.00209	0.01798	0.159621	1375
PAFAH1B1	1.54	0.623311	9.28	5.29	0.000167	0.00334	0.709159	9639
GPR126	1.54	0.622865	10.51	3.27	0.006425	0.038813	0.058423	5220
MAP2K1	1.54	0.622388	10.70	4.30	0.000944	0.010529	0.296993	8107
CHST13	1.54	0.622138	11.98	3.50	0.004124	0.028666	0.087857	2737
RNASE4	1.54	0.620745	12.78	3.12	0.008458	0.046675	0.045182	11317
GABARAP	1.54	0.620686	8.40	6.62	2.04E-05	0.00089	0.953857	4895
ACSM3	1.54	0.620637	8.67	5.73	8.09E-05	0.002118	0.83611	175
RPL9	1.54	0.62025	13.19	4.66	0.000497	0.006917	0.446769	11509
STEAP1	1.54	0.619217	11.66	3.57	0.003631	0.026351	0.098548	8435
ARL1	1.54	0.618793	10.63	5.68	8.75E-05	0.002222	0.824789	741
LOC653506	1.54	0.618605	9.81	5.85	6.63E-05	0.001827	0.861821	7703
REEP5	1.53	0.617283	11.36	3.83	0.002252	0.018883	0.149842	11170
CD302	1.53	0.617215	8.48	3.64	0.003199	0.024297	0.110378	2436
MLF2	1.53	0.616082	9.92	5.13	0.000221	0.003967	0.64813	8487
RAB17	1.53	0.615846	11.30	2.94	0.011836	0.05835	0.032924	10879
ZDHHC16	1.53	0.615689	12.33	6.71	1.77E-05	0.000799	0.959621	14775
OPTN	1.53	0.61552	9.95	5.13	0.000218	0.003952	0.650709	9531
RBKS	1.53	0.615275	9.37	3.41	0.004908	0.032126	0.07495	11069
RAVER2	1.53	0.615253	8.37	4.50	0.000654	0.00828	0.379901	11051
ZNF25	1.53	0.615127	8.25	5.73	8.16E-05	0.002128	0.834803	14938
C17orf90	1.53	0.614842	11.53	2.71	0.018285	0.078058	0.021831	1606
PPM1F	1.53	0.614732	9.74	4.57	0.000578	0.007671	0.40966	10407
FBXO21	1.53	0.614499	8.79	7.33	7.27E-06	0.000467	0.983196	4520
DBN1	1.53	0.61375	10.53	3.59	0.003467	0.025558	0.102733	3357
TOMM40L	1.53	0.613382	9.07	5.91	6.05E-05	0.001713	0.872518	13697
GSTM3	1.53	0.611562	8.30	6.80	1.54E-05	0.000729	0.964746	5319
HBP1	1.53	0.611527	8.83	6.47	2.54E-05	0.001007	0.942932	5425
FAM24B	1.53	0.611358	8.45	2.57	0.023759	0.09336	0.017055	4389
IFI35	1.53	0.611217	9.65	5.25	0.00018	0.003501	0.693093	6197
LIN28B	1.53	0.610927	11.27	4.41	0.000778	0.009306	0.339405	6983
CMPK1	1.53	0.610733	11.22	6.00	5.29E-05	0.0016	0.886989	2857
SPI10	1.52	0.608621	9.69	3.72	0.002736	0.021701	0.126668	12652
TMEM41A	1.52	0.607263	9.78	4.41	0.000769	0.009232	0.342104	13563
SLC30A7	1.52	0.605542	10.50	4.32	0.000914	0.010309	0.303969	12293
CLDN11	1.52	0.605373	9.72	2.78	0.016145	0.071483	0.024554	2794
LOC653888	1.52	0.605306	9.90	6.27	3.42E-05	0.001215	0.924272	7728
SENP7	1.52	0.60528	8.88	4.49	0.000675	0.008473	0.372274	11905

CCNDBP1	1.52	0.604708	11.91	6.78	1.60E-05	0.000745	0.963558	2374
SLC6A4	1.52	0.604262	8.69	4.48	0.000683	0.008532	0.369477	12390
ASB13	1.52	0.603944	9.21	6.63	2.00E-05	0.000883	0.954545	827
ST3GAL6	1.52	0.603006	9.53	5.28	0.000171	0.003372	0.704921	12833
PDGFRB	1.52	0.602764	8.28	4.06	0.001449	0.01409	0.215341	9839
CX3CL1	1.52	0.602586	10.94	4.98	0.000282	0.00468	0.589077	3261
C4orf34	1.52	0.602297	10.55	4.87	0.000341	0.005293	0.542027	1916
C20orf121	1.52	0.601704	9.92	3.98	0.001679	0.015604	0.191367	1755
KIAA1267	1.52	0.601415	10.42	5.60	0.000101	0.002399	0.803086	6658
RETSAT	1.52	0.601229	9.49	5.46	0.000125	0.002763	0.765584	11188
SLC35F2	1.52	0.600663	9.01	3.75	0.002592	0.020867	0.132749	12318
STAT2	1.52	0.600523	10.31	6.42	2.73E-05	0.001054	0.938884	12872
ANKRD46	1.51	0.59927	10.12	5.78	7.48E-05	0.00199	0.846741	544
PAPD1	1.51	0.596945	10.30	7.06	1.06E-05	0.000596	0.975534	9677
ITM2B	1.51	0.596485	12.93	6.99	1.18E-05	0.000629	0.972903	6444
FTCD	1.51	0.596334	10.41	3.17	0.007672	0.043638	0.04951	4821
ZDHHC16	1.51	0.595802	10.06	5.93	5.91E-05	0.001697	0.875281	14774
GOLT1A	1.51	0.594938	11.42	4.10	0.001359	0.013547	0.226447	5173
ARPC2	1.51	0.594805	13.00	5.80	7.22E-05	0.001935	0.851282	789
RPS29	1.51	0.594397	10.23	4.88	0.000335	0.005229	0.546613	11563
SH3BGR3	1.51	0.594187	10.52	2.72	0.018156	0.077637	0.021977	12069
ARRB1	1.51	0.594039	8.73	7.03	1.10E-05	0.000609	0.974668	797
PRCP	1.51	0.593793	12.44	4.88	0.000337	0.005251	0.544951	10499
UBASH3B	1.51	0.593691	11.12	3.37	0.005294	0.033802	0.069902	12931
HEBP2	1.51	0.59325	11.88	4.45	0.000721	0.008871	0.356706	5465
SPIRE1	1.51	0.591299	11.14	3.96	0.001744	0.015944	0.185554	12717
FOXC1	1.51	0.591152	10.03	3.68	0.00295	0.022965	0.118584	4779
C3orf60	1.51	0.590803	11.94	3.79	0.002399	0.019713	0.141958	1893
FAM14A	1.51	0.590207	8.47	5.49	0.00012	0.002709	0.773007	4369
PI4KA	1.51	0.590041	10.78	5.03	0.000258	0.004384	0.610608	10085
PRKAR1A	1.51	0.589891	12.66	4.17	0.001203	0.012389	0.248697	10542
ZFP90	1.50	0.589214	9.96	4.57	0.000579	0.007676	0.409058	14811
C5orf13	1.50	0.589169	11.44	4.62	0.000537	0.007311	0.427807	1923
ANPEP	1.50	0.589141	9.96	5.23	0.000185	0.003554	0.687412	560
TWSG1	1.50	0.589123	11.34	6.52	2.35E-05	0.000968	0.947063	14046
JARID2	1.50	0.588556	9.14	6.89	1.36E-05	0.000668	0.968919	6470
MCEE	1.50	0.588424	10.36	2.79	0.015942	0.070811	0.024849	8253
TNFSF4	1.50	0.587369	8.46	3.69	0.002902	0.022737	0.120277	13661
AES	1.50	0.587337	11.02	5.10	0.000232	0.004096	0.63647	285
tcag7.1260	1.50	0.587039	10.49	2.90	0.012956	0.062049	0.030228	7282
C14orf149	1.50	0.586754	8.54	4.87	0.000345	0.005316	0.539414	1493
C2	1.50	0.586289	9.15	4.37	0.000832	0.009729	0.32444	1748
CLNS1A	1.50	0.585888	12.11	6.02	5.08E-05	0.001556	0.891027	2833
DIMTIL	-1.50	-0.58564537	10.87	-5.74	7.97E-05	0.002100224	0.838080564	3599
TBX2	-1.50	-0.58586143	8.44	-4.06	0.001465944	0.014223945	0.213352682	13181
C17orf53	-1.50	-0.58680253	9.56	-5.24	0.00018363	0.003536498	0.689290012	1580
WTAP	-1.50	-0.5884207	9.65	-4.65	0.000504175	0.006983476	0.443410392	14607
BCCIP	-1.50	-0.58955723	10.07	-3.62	0.003314455	0.024782052	0.106940269	1142
SNRPC	-1.51	-0.59032215	11.71	-4.52	0.000631132	0.008069281	0.38826856	12548
C15orf23	-1.51	-0.59124689	9.63	-4.02	0.001560264	0.014896666	0.203016682	1526
FANCI	-1.51	-0.59186214	9.54	-3.19	0.00741001	0.042699235	0.051144674	4471
NUP85	-1.51	-0.5920348	10.60	-4.87	0.000341457	0.005292924	0.541773594	9447

WTAP	-1.51	-0.59305269	11.18	-4.55	0.000598971	0.00782871	0.400905614	14604
LMCD1	-1.51	-0.59388444	9.45	-3.26	0.006553754	0.039309451	0.057355372	7013
CFL2	-1.51	-0.59434507	9.07	-5.96	5.59E-05	0.001653157	0.881215198	2657
MSH6	-1.51	-0.59524543	11.41	-4.79	0.000393964	0.005851149	0.505626427	8717
CDC25C	-1.51	-0.59576525	8.81	-4.97	0.000289792	0.004763142	0.582693852	2487
SDPR	-1.51	-0.59620163	11.08	-2.93	0.012234662	0.059488462	0.031909639	11837
CYP51A1	-1.51	-0.59688162	10.37	-4.70	0.000460671	0.006536393	0.466062231	3330
SCD	-1.51	-0.5972497	13.80	-2.91	0.012612918	0.060881277	0.031005087	11769
ENSA	-1.51	-0.59767817	9.85	-4.31	0.000924486	0.010399106	0.301477073	4106
ADFP	-1.51	-0.59873799	14.48	-3.46	0.004502611	0.030415637	0.081102536	250
ZWILCH	-1.51	-0.59896674	11.17	-5.73	8.05E-05	0.002112918	0.83677086	15243
SLC44A2	-1.51	-0.59930298	9.03	-3.62	0.003275412	0.024622897	0.108074776	12367
CD24	-1.52	-0.59936665	14.11	-4.10	0.001363672	0.013557775	0.225820626	2428
ABCB9	-1.52	-0.59966434	9.63	-4.27	0.000988962	0.010883574	0.287347544	41
SDHB	-1.52	-0.60045362	11.85	-6.57	2.17E-05	0.000925949	0.950854173	11833
TDG	-1.52	-0.60107372	10.92	-5.59	0.000101346	0.002404083	0.802236808	13225
FKBP14	-1.52	-0.60130322	9.97	-7.73	4.16E-06	0.000311076	0.990351876	4641
HCP5	-1.52	-0.6016526	9.91	-3.24	0.006800993	0.040254382	0.055409888	5440
TNFRSF19	-1.52	-0.60210286	8.76	-6.32	3.20E-05	0.00115075	0.928958456	13652
CTDSPL2	-1.52	-0.6021687	8.47	-6.60	2.07E-05	0.000901056	0.953031534	3193
NES	-1.52	-0.60376978	8.64	-4.71	0.000453176	0.006476697	0.470199146	9087
PDE3B	-1.52	-0.6040331	9.05	-4.68	0.000475157	0.006685731	0.458268965	9822
ZFP36L2	-1.52	-0.60422324	9.48	-4.40	0.000782589	0.009340241	0.338045337	14808
FTHL11	-1.52	-0.60466669	10.71	-3.28	0.0062196	0.03791669	0.060216603	4824
RFC4	-1.52	-0.60473606	11.14	-5.46	0.000125524	0.0027634	0.765497041	11203
RAD51C	-1.52	-0.60521441	12.02	-4.11	0.001323517	0.013270106	0.231124012	10970
HELLS	-1.52	-0.60555333	8.95	-5.53	0.000112515	0.002580748	0.784850297	5470
C3	-1.52	-0.60592959	9.20	-5.12	0.000222821	0.004003167	0.64576107	1862
MYH9	-1.52	-0.6066406	12.38	-3.40	0.004979033	0.032358408	0.073963997	8850
SCN9A	-1.52	-0.60667053	9.15	-5.35	0.000150212	0.003092025	0.731203331	11787
FOXQ1	-1.52	-0.60679538	12.84	-4.14	0.001253076	0.012716676	0.241055426	4796
MCM6	-1.52	-0.60710147	11.14	-4.45	0.000719418	0.008863723	0.357330188	8268
KLF6	-1.52	-0.60857741	12.99	-3.62	0.003280012	0.02463981	0.107939851	6766
ID2	-1.53	-0.61076653	12.24	-3.51	0.004091969	0.028512929	0.088477745	6175
ELOVL6	-1.53	-0.61165086	8.95	-4.39	0.000800981	0.009478166	0.332814526	4078
CKAP5	-1.53	-0.61181578	11.82	-3.99	0.001652634	0.015483804	0.193822515	2771
SPC24	-1.53	-0.61208238	9.68	-3.13	0.008295937	0.046013794	0.046009602	12687
CDC25C	-1.53	-0.61216098	9.11	-3.84	0.002190656	0.018512315	0.153393157	2488
CDC25C	-1.53	-0.61260049	8.80	-4.91	0.000321363	0.005111314	0.556995017	2489
ERMP1	-1.53	-0.61298428	9.02	-3.57	0.00366055	0.02645356	0.097843341	4185
GCUD2	-1.53	-0.61309227	9.53	-4.50	0.000658693	0.00831652	0.378052866	5000
LSS	-1.53	-0.61331525	9.49	-3.58	0.003541185	0.025905851	0.100799136	7986
STIL	-1.53	-0.61514717	10.37	-5.07	0.000241299	0.004220792	0.627058067	12893
GPC6	-1.53	-0.61727987	9.61	-4.25	0.001024634	0.011139516	0.280083954	5861
RNF103	-1.53	-0.61746661	11.11	-3.77	0.002504827	0.020317011	0.13675885	11328
PTTG1	-1.53	-0.61772228	12.62	-4.44	0.000734911	0.008960513	0.352400441	10802
LIPG	-1.54	-0.61874437	8.22	-6.20	3.82E-05	0.001290236	0.916053854	6996
GBAS	-1.54	-0.61897121	9.71	-5.69	8.61E-05	0.00219135	0.827269999	4967
POLQ	-1.54	-0.61968278	8.99	-5.65	9.18E-05	0.002303071	0.817688041	10296
NEIL3	-1.54	-0.61984507	8.19	-8.86	9.69E-07	0.000130824	0.997734777	9072
KLC1	-1.54	-0.6200368	10.13	-5.26	0.000174789	0.003413646	0.699914882	6753
FANCG	-1.54	-0.62110225	9.71	-3.22	0.007057623	0.041242447	0.053527395	4470

SAMD4A	-1.54	-0.62285331	8.48	-5.48	0.000121772	0.002735485	0.770983106	11709
FTHL8	-1.54	-0.62434608	13.73	-5.08	0.00023929	0.004200106	0.629039501	4832
PRKDC	-1.54	-0.62458203	10.34	-3.02	0.010175778	0.052792906	0.037968371	10558
GPR56	-1.54	-0.62609757	10.47	-3.86	0.002108432	0.018108061	0.158440357	5231
HELLS	-1.54	-0.62640094	10.11	-4.59	0.000560573	0.007520162	0.417107343	5471
MRPS17	-1.55	-0.62787901	12.16	-6.33	3.17E-05	0.001144517	0.92963529	8677
NUP35	-1.55	-0.62804602	9.13	-7.79	3.84E-06	0.000292636	0.991098466	9436
RFC3	-1.55	-0.62865915	9.31	-6.16	4.10E-05	0.001347007	0.910397346	11200
SKP2	-1.55	-0.62923409	10.64	-2.97	0.011306114	0.056746351	0.034378089	12153
ZNF598	-1.55	-0.63293004	10.39	-7.02	1.13E-05	0.000611737	0.974092354	15104
RFC4	-1.55	-0.63406245	11.06	-4.87	0.000343903	0.005309261	0.53997641	11202
PGBD1	-1.55	-0.63425408	8.57	-6.97	1.21E-05	0.000636127	0.972246274	9938
RDX	-1.55	-0.63508162	10.62	-5.29	0.00016682	0.003334874	0.709769705	11158
SEMA6A	-1.55	-0.63601626	10.44	-3.63	0.003239089	0.024500087	0.109152256	11896
GPR56	-1.56	-0.63720756	10.14	-4.63	0.000526678	0.007191965	0.432529873	5232
AMZ2	-1.56	-0.63733232	12.50	-7.91	3.26E-06	0.00026034	0.99243193	483
INCENP	-1.56	-0.63741675	9.22	-4.44	0.000738284	0.008987265	0.351345223	6322
IER5	-1.56	-0.63747696	8.72	-5.22	0.00018681	0.003563845	0.685545366	6192
PTTG1	-1.56	-0.63819923	11.40	-3.36	0.005349785	0.033971805	0.069231088	10801
BXDC2	-1.56	-0.63876083	13.12	-8.22	2.17E-06	0.000220373	0.994960151	1339
RCC2	-1.56	-0.63914206	11.83	-4.15	0.001238361	0.012626154	0.243238732	11135
STXBP6	-1.56	-0.63971683	10.93	-4.92	0.000312396	0.005010494	0.564063557	12959
NOLC1	-1.56	-0.64180411	10.91	-4.38	0.000815548	0.009605835	0.328784454	9253
MCM4	-1.56	-0.64181603	9.60	-8.04	2.76E-06	0.000242645	0.993591557	8265
CITED2	-1.56	-0.64207382	9.89	-5.82	7.04E-05	0.00189429	0.854466323	2765
CRLS1	-1.56	-0.6429134	12.82	-5.82	7.03E-05	0.00189429	0.854721802	3096
SLC47A1	-1.56	-0.64304529	10.84	-2.88	0.01329235	0.063214923	0.029505801	12375
SGOL1	-1.56	-0.64310641	8.51	-5.75	7.82E-05	0.002067975	0.840672744	12052
SPPI	-1.56	-0.64383739	14.48	-5.04	0.000254456	0.004351139	0.614377257	12726
MBD2	-1.56	-0.64577634	7.80	-8.80	1.04E-06	0.000138042	0.997564012	8222
CSEIL	-1.57	-0.64900374	12.62	-5.51	0.000115521	0.002633847	0.780295122	3133
LPCAT1	-1.57	-0.64904688	9.50	-5.17	0.000204633	0.003796851	0.665272229	7890
MNS1	-1.57	-0.64913779	8.31	-8.37	1.80E-06	0.000194585	0.99581316	8520
S100A4	-1.57	-0.65345407	9.78	-3.15	0.0080068	0.045015749	0.047566235	11687
PAICS	-1.57	-0.65382796	8.40	-8.28	2.00E-06	0.000210702	0.995340251	9649
ADD3	-1.58	-0.65543337	9.30	-6.38	2.93E-05	0.001099967	0.934657975	247
PLK4	-1.58	-0.65546307	9.91	-5.50	0.00011789	0.002675853	0.776741225	10205
CUL4A	-1.58	-0.65600693	10.84	-4.86	0.000347131	0.005337489	0.53762281	3247
NOL5A	-1.58	-0.65618506	13.26	-3.79	0.00238776	0.019654882	0.142515525	9240
RAD51C	-1.58	-0.65673038	10.98	-8.15	2.37E-06	0.00023194	0.994488009	10971
PHF14	-1.58	-0.6570198	10.06	-7.02	1.13E-05	0.000611737	0.974096373	9976
C9orf140	-1.58	-0.65730518	9.56	-3.65	0.003112704	0.023858331	0.113076139	2055
MCM3	-1.58	-0.65837863	10.36	-6.18	3.94E-05	0.001308845	0.913708588	8261
MATN3	-1.58	-0.65917895	12.10	-3.29	0.006098616	0.037328329	0.061325376	8210
KITLG	-1.58	-0.6603594	9.17	-5.40	0.000139865	0.002938513	0.745206343	6751
ELOVL6	-1.58	-0.66334102	10.80	-3.85	0.002154997	0.018372344	0.155541782	4077
GLDC	-1.58	-0.66378615	12.81	-5.25	0.000179282	0.003483555	0.694475376	5072
POLE2	-1.59	-0.66527824	9.90	-5.04	0.000255707	0.004367628	0.613198076	10289
CDCA2	-1.59	-0.66556268	8.82	-5.64	9.34E-05	0.002327347	0.815093824	2518
SAC3D1	-1.59	-0.66809839	11.02	-5.51	0.0001164	0.002649932	0.778972304	11698
CENPE	-1.59	-0.66843255	9.36	-5.40	0.000138921	0.00292372	0.746509867	2593
DC2	-1.59	-0.66907671	12.72	-4.17	0.001184962	0.012320393	0.251505672	3368

BUB3	-1.59	-0.66910939	11.88	-6.55	2.26E-05	0.000950414	0.949056405	1333
CDCA4	-1.59	-0.66919918	9.11	-7.22	8.40E-06	0.000514291	0.980625656	2522
SELI	-1.59	-0.66963681	9.10	-6.16	4.11E-05	0.001347007	0.910311793	11881
NEK2	-1.59	-0.67072713	8.52	-7.46	6.05E-06	0.000406513	0.985999793	9076
CENPI	-1.59	-0.67296701	8.19	-9.47	4.64E-07	9.08E-05	0.998905421	2596
DHRS2	-1.60	-0.67364001	14.52	-6.15	4.14E-05	0.001348404	0.909691288	3550
UNG	-1.60	-0.67413688	12.12	-6.59	2.11E-05	0.000907996	0.952292389	14263
RPL7A	-1.60	-0.67436174	8.75	-6.05	4.83E-05	0.001521533	0.895965708	12529
C20orf19	-1.60	-0.67455981	8.80	-3.87	0.0020584	0.01780872	0.161678148	1762
EXOSC9	-1.60	-0.67456731	10.28	-5.18	0.000201796	0.003780297	0.668420244	4263
CENPM	-1.60	-0.67533885	9.01	-5.03	0.000259599	0.004394751	0.609556072	2602
FILIP1L	-1.60	-0.67618755	10.76	-3.21	0.007092874	0.041312081	0.053278915	4631
KRT8	-1.60	-0.67752521	11.82	-4.07	0.001446526	0.014089658	0.215612728	6830
NAP1L4	-1.60	-0.67790801	11.93	-7.34	7.14E-06	0.000461668	0.983490828	8919
MCM7	-1.60	-0.6779436	8.89	-5.90	6.19E-05	0.001742905	0.86993861	8269
MPHOSPH1	-1.60	-0.67826848	10.96	-4.37	0.000837077	0.009761424	0.323003519	8557
C18orf54	-1.60	-0.67926244	8.91	-7.96	3.07E-06	0.000251591	0.992875916	1620
DLAT	-1.60	-0.67962819	10.56	-6.33	3.14E-05	0.001136343	0.930269838	3630
MCM10	-1.60	-0.67974582	8.79	-6.52	2.36E-05	0.000968877	0.946739386	8258
KLHL22	-1.60	-0.68018411	9.26	-4.48	0.000678218	0.008493311	0.371133947	6786
RFC5	-1.60	-0.68157541	10.62	-4.53	0.000623276	0.008002381	0.391281651	11204
DBT	-1.60	-0.68211092	10.18	-6.06	4.80E-05	0.001519666	0.896472488	3367
BUB1B	-1.61	-0.68335071	8.76	-6.33	3.14E-05	0.001136343	0.93026547	1329
PITRM1	-1.61	-0.68360375	10.02	-5.82	6.97E-05	0.001884274	0.855800389	10111
ALS2CR4	-1.61	-0.68427762	9.75	-6.75	1.67E-05	0.000767997	0.962017602	461
FILIP1L	-1.61	-0.68560644	11.10	-3.55	0.003733723	0.026800223	0.096116322	4630
PPP2R1B	-1.61	-0.68573729	9.53	-8.12	2.48E-06	0.000232716	0.994224862	10449
DHRS2	-1.61	-0.68689964	13.56	-4.35	0.000861079	0.009912702	0.31679318	3549
TLE1	-1.61	-0.68813852	9.35	-7.68	4.44E-06	0.000324323	0.989697732	13398
ACOX1	-1.61	-0.6897361	10.50	-5.07	0.000243931	0.004252213	0.624479682	146
SQSTM1	-1.61	-0.69048835	12.60	-4.10	0.001360652	0.013547013	0.226211007	12759
SOCS2	-1.61	-0.6910775	8.38	-2.68	0.019574817	0.08184613	0.020470347	12607
VWCE	-1.62	-0.6916736	9.49	-4.65	0.000505148	0.006985511	0.44292868	14467
MVD	-1.62	-0.69192451	8.73	-8.07	2.66E-06	0.000241793	0.993812287	8822
CDCA7	-1.62	-0.69258689	10.66	-5.00	0.000273113	0.004572762	0.597237866	2524
RNASEH2A	-1.62	-0.69759053	9.42	-5.15	0.000213742	0.003903236	0.655357749	11320
NCAPG2	-1.63	-0.70100351	8.97	-5.72	8.27E-05	0.002138991	0.832901508	8974
MCM2	-1.63	-0.70321803	10.01	-6.37	2.94E-05	0.001103051	0.934331543	8260
AKAP7	-1.63	-0.70394902	9.94	-3.96	0.001742856	0.015943787	0.185613655	365
PTTG3	-1.63	-0.70405899	11.46	-3.77	0.002505494	0.020317011	0.136727391	10806
NOL5A	-1.63	-0.70429913	13.32	-6.51	2.40E-05	0.00097279	0.94598049	9238
SFRS14	-1.63	-0.70493604	8.93	-5.47	0.000123154	0.002746295	0.768954128	12015
SLC11A2	-1.63	-0.70535593	11.14	-3.75	0.002592335	0.02086652	0.132752091	12163
SNAR-A53129250	-1.64	-0.70930032	14.66	-5.04	0.000257161	0.004384499	0.6118326	6051
NUP155	-1.64	-0.71049183	11.94	-5.95	5.65E-05	0.00165416	0.880030494	9429
TXNRD1	-1.64	-0.7105828	11.36	-5.22	0.000189737	0.003601624	0.682133209	14069
LHX6	-1.64	-0.71063684	8.81	-3.56	0.003703881	0.026648725	0.096813169	6965
HP	-1.64	-0.7128076	10.00	-2.61	0.022196141	0.089047275	0.018183144	5678
HJURP	-1.64	-0.71352016	9.10	-6.41	2.77E-05	0.001060289	0.93807826	5563
HRSP12	-1.64	-0.71379572	8.83	-4.44	0.000730981	0.008934016	0.35363819	5702
TFRC	-1.64	-0.71616156	13.20	-3.85	0.00213773	0.018256881	0.156604155	13279
SFT2D1	-1.64	-0.71688031	13.33	-8.50	1.52E-06	0.000175929	0.996452014	12033

RDH11	-1.64	-0.71713843	12.33	-6.83	1.48E-05	0.000710792	0.966215075	11151
RP11-11C5.2	-1.64	-0.71730122	8.98	-6.39	2.88E-05	0.00108843	0.935761205	7240
SCFD1	-1.65	-0.72084417	12.38	-7.44	6.17E-06	0.000410561	0.985732783	11771
NUSAP1	-1.65	-0.72230922	11.33	-5.95	5.68E-05	0.00165416	0.879505482	9459
KPNA2	-1.65	-0.72280406	10.56	-5.96	5.62E-05	0.001653355	0.880608787	6806
TUBB3	-1.65	-0.72338827	13.28	-7.17	9.02E-06	0.000535502	0.979195087	14015
WDR79	-1.66	-0.72896707	9.08	-7.43	6.27E-06	0.000413248	0.985494194	14563
SGOL2	-1.66	-0.73056874	8.93	-7.37	6.85E-06	0.000446722	0.984155244	12053
NUP107	-1.66	-0.73061195	10.71	-7.13	9.60E-06	0.000556496	0.977891204	9425
BRCA1	-1.66	-0.73113936	9.36	-4.98	0.000284783	0.004701079	0.586987523	1255
TTF2	-1.66	-0.73501797	10.00	-6.50	2.42E-05	0.000976218	0.945521835	13989
C11orf51	-1.66	-0.73542612	8.62	-5.99	5.33E-05	0.001606178	0.886262172	1396
HRAS	-1.67	-0.73637441	10.09	-7.95	3.12E-06	0.000254308	0.992760747	5697
TROAP	-1.67	-0.73714893	8.77	-6.75	1.67E-05	0.000767997	0.961950588	13883
CDCA3	-1.67	-0.73717251	9.68	-5.86	6.56E-05	0.001808249	0.863261902	2519
PKP2	-1.67	-0.73861281	9.40	-8.32	1.92E-06	0.000203123	0.99553789	10135
TACC3	-1.67	-0.74008288	8.95	-7.20	8.67E-06	0.000524505	0.980009634	13058
BUB1	-1.67	-0.74140602	10.28	-5.00	0.000273929	0.004581402	0.596509358	1328
RACGAP1	-1.67	-0.74163792	10.01	-7.23	8.35E-06	0.000513814	0.980720344	10955
DCP2	-1.67	-0.74217091	10.14	-6.59	2.12E-05	0.000909541	0.951953791	3387
KIF4A	-1.67	-0.74316121	8.93	-4.56	0.000596098	0.007804534	0.402074435	6742
EXOC6	-1.68	-0.74872342	9.36	-5.83	6.90E-05	0.001875588	0.857043135	4245
SERPINA3	-1.68	-0.74989856	15.20	-4.21	0.001120864	0.011847914	0.262202107	11952
ACACA	-1.68	-0.75042658	10.69	-4.05	0.001484158	0.014364125	0.211275387	101
MKNK2	-1.68	-0.75042793	8.26	-9.37	5.24E-07	9.40E-05	0.998767494	8482
RHOB	-1.68	-0.75080272	11.65	-5.19	0.000199304	0.003743816	0.671209528	11264
S100A4	-1.68	-0.75099689	10.07	-3.26	0.006516619	0.039179341	0.057659641	11688
SLC2A14	-1.69	-0.75324541	9.02	-4.79	0.000397323	0.00588957	0.503475756	12275
TMED10P	-1.69	-0.75531257	12.74	-6.03	5.03E-05	0.001545746	0.892093106	13436
NA	-1.69	-0.75596435	12.19	-5.60	9.94E-05	0.002390578	0.805396219	13325
CKS1B	-1.69	-0.75753184	12.71	-5.27	0.000173321	0.003406783	0.701710361	2778
ODC1	-1.69	-0.75756151	12.94	-7.27	7.83E-06	0.000490478	0.98191471	9491
HEATR1	-1.69	-0.76009062	11.21	-5.51	0.000115326	0.002633342	0.780588833	5458
KIAA0101	-1.69	-0.76022346	12.29	-5.17	0.000204156	0.00379292	0.665799358	6571
ZNF342	-1.70	-0.7632291	9.28	-7.28	7.82E-06	0.000490478	0.98194965	15000
ILF3	-1.70	-0.76483303	10.05	-7.09	1.02E-05	0.00057911	0.976573532	6304
KIF11	-1.70	-0.76625154	9.72	-4.45	0.000726185	0.008897576	0.35516017	6719
PHF14	-1.70	-0.7670237	10.42	-9.13	6.94E-07	0.00010589	0.998372187	9977
CKS2	-1.70	-0.76734152	13.53	-8.00	2.90E-06	0.000242645	0.993275385	2779
NA	-1.70	-0.76746391	10.03	-3.68	0.002935074	0.022889013	0.119097462	7070
TXNRD1	-1.70	-0.76860518	10.82	-4.07	0.001421943	0.013974803	0.21854381	14070
TNFRSF19	-1.70	-0.76961593	12.45	-8.01	2.87E-06	0.000242645	0.993331413	13650
C1orf116	-1.70	-0.76975701	8.26	-4.21	0.001102544	0.011711073	0.265428496	1677
SEC61A2	-1.71	-0.77115123	8.88	-10.74	1.14E-07	3.56E-05	0.999722249	11867
MCM4	-1.71	-0.77253225	11.25	-6.54	2.28E-05	0.000955817	0.948513286	8266
NUP35	-1.71	-0.77605004	9.56	-8.15	2.37E-06	0.00023194	0.994485674	9435
C1orf112	-1.71	-0.77632326	9.20	-6.81	1.52E-05	0.000723237	0.965213799	1675
G6PD	-1.71	-0.77709855	9.29	-5.42	0.000134891	0.002873589	0.75212483	4888
CDC2	-1.71	-0.77714679	9.67	-4.38	0.000813433	0.009595746	0.329363464	2481
BRI3BP	-1.71	-0.77756225	9.78	-7.03	1.11E-05	0.000611737	0.974434618	1273
UCHL5IP	-1.71	-0.77768459	10.17	-6.53	2.33E-05	0.000967809	0.947343278	14198
SUZ12	-1.72	-0.77970831	11.55	-8.08	2.60E-06	0.000237781	0.993950592	13019

SPC25	-1.72	-0.78155413	9.31	-5.18	0.000202981	0.003780297	0.667101756	12688
RDH11	-1.72	-0.78623067	10.76	-7.10	1.00E-05	0.000575572	0.976886149	11150
C14orf80	-1.73	-0.78675687	9.21	-5.44	0.000130458	0.002814723	0.758396851	1519
PSMC3IP	-1.73	-0.78967257	8.59	-8.03	2.78E-06	0.000242645	0.993550917	10679
CTSL2	-1.73	-0.79026245	8.98	-6.06	4.75E-05	0.001508539	0.89755129	3236
C9orf21	-1.73	-0.79090719	9.53	-8.49	1.53E-06	0.000175929	0.996426242	2063
CENPA	-1.73	-0.79164262	9.13	-4.96	0.000294036	0.004807004	0.579103727	2589
FEN1	-1.74	-0.79668799	9.50	-7.35	7.05E-06	0.00045734	0.983713031	4583
CDC2	-1.74	-0.79815174	11.55	-4.10	0.001368805	0.013592699	0.225160162	2480
KIF11	-1.74	-0.79841614	10.27	-4.83	0.000370726	0.005582119	0.521017159	6718
WBSR22	-1.74	-0.80071316	10.06	-6.18	3.98E-05	0.001316935	0.912864231	14488
RFTN1	-1.74	-0.80206598	8.38	-4.51	0.00064967	0.00823777	0.381337845	11216
MCM7	-1.75	-0.80621754	12.72	-4.57	0.000581044	0.007693289	0.408311111	8270
TMED10	-1.75	-0.8062313	9.88	-5.27	0.00017391	0.003407056	0.700988413	13435
FBXO5	-1.75	-0.80634339	9.62	-5.83	6.85E-05	0.00187337	0.8578554	4545
TIPIN	-1.75	-0.80719847	9.49	-6.34	3.08E-05	0.001130534	0.931380088	13381
ALDH3A1	-1.75	-0.8097262	8.73	-2.89	0.013053563	0.062396111	0.030015474	402
MAD2L1	-1.75	-0.81099816	11.44	-5.63	9.46E-05	0.002346391	0.813028499	8036
MAPK9	-1.77	-0.82009342	9.74	-7.96	3.04E-06	0.000250796	0.992936348	8159
KIF23	-1.77	-0.82229405	9.18	-6.86	1.43E-05	0.000696133	0.967305086	6734
ITGB2	-1.77	-0.82284951	9.36	-3.49	0.004188165	0.029010936	0.086630952	6431
ISY1	-1.77	-0.8230398	9.17	-10.29	1.85E-07	5.52E-05	0.99955722	6411
FZD6	-1.77	-0.82389516	8.93	-6.86	1.43E-05	0.000696133	0.967379115	4875
EXO1	-1.77	-0.82399251	9.26	-7.21	8.59E-06	0.000522308	0.980170578	4235
MELK	-1.77	-0.82435061	11.12	-7.76	4.02E-06	0.000301982	0.990678357	8331
E2F7	-1.77	-0.82444234	8.69	-6.98	1.20E-05	0.000636127	0.97250405	3893
TPX2	-1.77	-0.82610106	10.20	-5.57	0.000104717	0.00246109	0.796911583	13766
PSMC3IP	-1.77	-0.82760076	8.96	-6.51	2.38E-05	0.000971023	0.946349557	10680
PAK1IP1	-1.78	-0.82854898	11.04	-6.71	1.76E-05	0.000798558	0.959830641	9655
CKS1B	-1.78	-0.82857707	12.20	-5.85	6.72E-05	0.0018471	0.860254112	2777
DHCR24	-1.78	-0.82937917	10.72	-4.86	0.000350306	0.005380887	0.535327498	3533
BXDC2	-1.78	-0.8306938	11.88	-6.90	1.34E-05	0.000667525	0.969210403	1338
CDC45L	-1.78	-0.83193745	10.63	-4.16	0.001221052	0.012484979	0.2458583	2513
ITGB2	-1.78	-0.83349971	9.15	-3.82	0.002274913	0.01901329	0.148545468	6432
LOC389137	-1.78	-0.8340358	8.90	-10.14	2.17E-07	5.92E-05	0.999480689	7167
CENPA	-1.78	-0.83435159	9.91	-4.54	0.000614433	0.00794233	0.394729443	2588
ZWINT	-1.78	-0.83510753	9.91	-5.41	0.000136045	0.002886081	0.750508614	15245
SDC4	-1.78	-0.83576977	10.36	-5.44	0.000130239	0.002814723	0.758709011	11812
CENPF	-1.79	-0.83664648	9.63	-6.04	4.92E-05	0.001532269	0.894174902	2594
KRT19	-1.79	-0.83695321	13.27	-3.33	0.005670838	0.035449711	0.065601726	6826
BCAS1	-1.79	-0.83924759	8.32	-6.52	2.37E-05	0.000968877	0.946600555	1132
CCNF	-1.79	-0.84213271	10.32	-7.43	6.29E-06	0.000413248	0.985458278	2379
JUN	-1.80	-0.85011094	11.49	-3.68	0.002931804	0.022889013	0.119214397	6493
C18orf17	1.81	-0.85528127	11.48	-4.71	0.000451724	0.006469614	0.471008955	1611
ATF5	-1.81	-0.85553073	10.21	-8.11	2.50E-06	0.000232895	0.994180387	889
MELK	-1.81	-0.85629235	10.08	-8.25	2.08E-06	0.000212947	0.995161532	8332
SFN	-1.81	-0.85840588	10.52	-3.43	0.00470205	0.031360022	0.077951125	12005
FDFT1	-1.82	-0.86029844	13.69	-5.99	5.36E-05	0.001611284	0.885734348	4574
SPP1	-1.82	-0.86535021	14.19	-6.00	5.27E-05	0.001599542	0.887290085	12727
WEE1	-1.82	-0.86663724	10.11	-8.93	8.91E-07	0.000123548	0.997916018	14573
CHCHD3	-1.83	-0.86854374	9.33	-9.28	5.80E-07	0.000100794	0.998636781	2672
GINS2	-1.83	-0.86862425	11.20	-4.04	0.001528961	0.014676676	0.206334007	5046

DUSP1	-1.83	-0.86906358	11.35	-4.77	0.000407444	0.005987233	0.497103831	3827
DEPDC1	-1.83	-0.87248667	8.94	-8.19	2.27E-06	0.000227992	0.994717523	3496
HMMR	-1.83	-0.8740669	11.11	-4.78	0.000399269	0.005907772	0.50223825	5612
CAMTA1	-1.83	-0.87440825	8.43	-7.97	3.04E-06	0.000250796	0.992950253	2151
PLA2G2A	-1.84	-0.87853686	12.47	-4.17	0.001202942	0.012389245	0.248660081	10141
SMC4	-1.84	-0.87987372	10.69	-7.48	5.84E-06	0.000396122	0.986474698	12457
NUSAP1	-1.85	-0.8844338	10.11	-7.57	5.19E-06	0.000359844	0.987977681	9460
RPS7	1.85	-0.88684773	11.34	-4.42	0.000766491	0.009220263	0.342759958	11589
FAM83D	-1.86	-0.89295792	10.75	-7.16	9.20E-06	0.000543624	0.978802075	4442
PLAGL2	-1.86	-0.8929934	10.62	-7.19	8.84E-06	0.000530928	0.979608809	10153
CDT1	-1.86	-0.89392016	10.20	-6.01	5.21E-05	0.00158309	0.888535526	2570
ELF3	-1.86	-0.89698882	8.59	-7.66	4.58E-06	0.000326743	0.989374198	4058
CDH1	-1.86	-0.89844806	10.30	-4.31	0.000927382	0.010423987	0.300812898	2526
PBK	-1.86	-0.89902021	10.31	-4.94	0.000304563	0.004920254	0.570384722	9732
ANLN	-1.87	-0.90538153	10.17	-7.25	8.09E-06	0.000501162	0.98132002	556
C1orf181	-1.87	-0.90566331	10.46	-11.75	4.07E-08	1.88E-05	0.999897006	1698
CKS2	-1.87	-0.90628771	12.87	-6.64	1.96E-05	0.000868392	0.955426733	2780
RFC3	-1.87	-0.90638515	10.16	-7.89	3.35E-06	0.000266374	0.992216885	11199
PRC1	-1.88	-0.90725712	11.24	-5.97	5.50E-05	0.001638803	0.88295751	10496
ID2	-1.88	-0.91323042	11.07	-5.92	5.96E-05	0.001705581	0.87428529	6174
RPS24	-1.90	-0.92277696	12.00	-5.46	0.000126588	0.002769779	0.763954805	11545
SLC44A3	-1.90	-0.92330128	9.63	-6.82	1.51E-05	0.000721339	0.965408508	12368
MCM10	-1.90	-0.92333414	10.73	-6.14	4.21E-05	0.001363259	0.908234925	8259
FEN1	-1.90	-0.92390146	11.55	-7.32	7.35E-06	0.000469309	0.983008541	4584
RPS7	-1.90	-0.92927212	10.97	-5.39	0.000141682	0.002960377	0.742709816	11588
BRMS1L	-1.90	-0.9294345	10.64	-9.21	6.35E-07	0.000101891	0.998510464	1278
PGC	-1.91	-0.93715765	10.23	-2.87	0.013650875	0.064440945	0.028773077	9941
LDLR	-1.92	-0.93850442	12.84	-4.34	0.000870968	0.009971547	0.314302993	6924
ALDH7A1	-1.92	-0.93926212	11.76	-7.92	3.23E-06	0.000259518	0.992495058	415
DNAJC13	-1.93	-0.9484653	8.41	-9.94	2.71E-07	6.79E-05	0.999354534	3696
NSDHL	-1.93	-0.94911118	10.93	-8.43	1.66E-06	0.000182159	0.996134479	9339
DEFB1	-1.93	-0.95057338	8.89	-4.77	0.000406323	0.005976514	0.497801842	3481
RPL29	-1.94	-0.95234227	10.82	-6.92	1.30E-05	0.000660278	0.970085553	11468
THBS1	-1.94	-0.95328025	11.71	-4.60	0.000553066	0.007479621	0.420428324	13313
BIRC5	-1.94	-0.95351753	11.53	-5.60	9.96E-05	0.002392782	0.804998361	1205
RPL36A	-1.94	-0.95776392	8.62	-9.08	7.40E-07	0.000109229	0.998265891	11484
G6PD	-1.94	-0.95854186	11.26	-6.46	2.58E-05	0.001013207	0.942121617	4889
PAWR	-1.94	-0.9588647	10.91	-7.07	1.05E-05	0.000589508	0.975895744	9727
DLG7	-1.95	-0.96005182	10.18	-5.96	5.57E-05	0.001649778	0.881638043	3638
HMMR	-1.95	-0.96356286	10.86	-5.43	0.00013143	0.002827502	0.757012757	5613
SNORD16	-1.95	-0.9643981	8.95	-8.01	2.86E-06	0.000242645	0.993368114	12522
NCAPG	-1.96	-0.9706444	10.64	-9.06	7.63E-07	0.000110775	0.998213735	8973
C18orf24	-1.96	-0.97260017	9.36	-7.14	9.43E-06	0.000550917	0.978274499	1615
SC4MOL	-1.96	-0.97428809	11.12	-5.05	0.000252839	0.004338076	0.615908579	11744
AASDHPPT	-1.97	-0.97616028	9.43	-11.21	6.97E-08	2.42E-05	0.999827614	21
DHCR7	-1.98	-0.98416102	10.32	-6.12	4.38E-05	0.001403039	0.904855019	3535
FDFT1	-1.98	-0.98635706	12.24	-5.64	9.36E-05	0.002328258	0.814783817	4573
ADAM10	-1.98	-0.98885321	9.31	-6.75	1.68E-05	0.000769973	0.961677126	213
MRS2	-1.99	-0.99222264	9.99	-8.51	1.50E-06	0.00017587	0.996507548	8708
ACAT2	-1.99	-0.99633741	12.06	-5.24	0.000181184	0.003509885	0.692197925	118
ATF3	-2.00	-0.99682923	9.02	-8.56	1.40E-06	0.000165821	0.996731106	886
S100A3	-2.00	-0.99959177	9.74	-3.04	0.009917629	0.05187709	0.038898796	11686

CRYAA	-2.00	-1.00080751	12.57	-6.96	1.23E-05	0.000640525	0.971850972	3111
BCAS1	-2.01	-1.00371564	8.61	-6.24	3.60E-05	0.001247082	0.920650604	1133
AURKB	-2.01	-1.00373187	10.45	-5.32	0.000158816	0.003224666	0.719944499	1037
CD24	-2.01	-1.00399285	10.59	-6.89	1.36E-05	0.00066814	0.968887557	2429
HSPA14	-2.01	-1.00563205	10.25	-9.22	6.27E-07	0.000101891	0.998528358	6111
ADM	-2.01	-1.00924984	11.41	-4.91	0.00031983	0.005092242	0.558191012	263
DHCR7	-2.02	-1.01545158	10.43	-4.73	0.000438992	0.006299097	0.47822973	3534
SYPL1	-2.02	-1.01677282	11.56	-8.93	8.88E-07	0.000123548	0.997922957	13039
HIF1AN	-2.03	-1.01794639	9.28	-8.61	1.32E-06	0.000160393	0.996910521	5517
CDCA8	-2.03	-1.01873289	9.79	-7.70	4.32E-06	0.000318391	0.989981577	2525
DNAJB1	-2.03	-1.020467	10.73	-8.34	1.85E-06	0.000197735	0.995685691	3672
GTSE1	-2.04	-1.02908671	9.03	-6.53	2.31E-05	0.000963246	0.94799199	5369
NDC80	-2.04	-1.03051706	9.76	-6.20	3.85E-05	0.001294673	0.915439541	9003
DTNA	-2.05	-1.03386885	8.95	-8.50	1.52E-06	0.000175929	0.996448054	3811
SYTL2	-2.05	-1.03441133	8.33	-4.89	0.00033059	0.005176023	0.549902036	13050
TNFAIP8	-2.05	-1.03670934	9.38	-6.22	3.73E-05	0.001277808	0.91793813	13640
RPL29	-2.07	-1.05048714	10.87	-7.03	1.12E-05	0.000611737	0.974341178	11469
NEK2	-2.07	-1.05230469	10.86	-5.61	9.90E-05	0.002385871	0.80596053	9077
KIF2C	-2.07	-1.05249923	9.79	-5.95	5.71E-05	0.001654459	0.87906585	6737
CHAF1B	-2.08	-1.05691833	9.46	-7.39	6.61E-06	0.00043298	0.984704055	2668
DNMT3B	-2.08	-1.0593043	8.55	-9.73	3.44E-07	7.39E-05	0.999185651	3727
ID3	-2.09	-1.06139894	11.69	-3.49	0.004221804	0.029164483	0.086003389	6176
SQLE	-2.10	-1.06832005	12.22	-6.73	1.73E-05	0.000783815	0.960665388	12756
UHRF1	-2.10	-1.06856679	11.80	-7.68	4.49E-06	0.000324625	0.989594666	14243
UBE2C	-2.12	-1.08083397	11.20	-6.40	2.82E-05	0.001077665	0.936964115	14114
RPS15	-2.13	-1.0903866	10.15	-5.40	0.000138235	0.00291631	0.747460363	11531
RASD1	-2.14	-1.09609188	11.70	-3.94	0.001820477	0.016430609	0.179089501	11036
SLC2A8	-2.15	-1.10422779	11.30	-6.50	2.41E-05	0.000974785	0.945736324	12280
FASN	-2.15	-1.10696142	13.46	-5.97	5.53E-05	0.001642876	0.882491662	4482
UBE2C	-2.16	-1.10959146	11.65	-5.89	6.22E-05	0.001747231	0.869441294	14113
CYP24A1	-2.16	-1.11098164	10.75	-3.47	0.004374082	0.029838049	0.083273766	3315
TRIP13	-2.16	-1.11403953	10.78	-8.16	2.35E-06	0.00023194	0.994540154	13870
LIPG	-2.17	-1.11497368	9.36	-5.15	0.000211069	0.003869521	0.658236506	6997
SC4MOL	-2.17	-1.1187496	12.85	-5.96	5.64E-05	0.001653355	0.880379395	11745
DSC2	-2.17	-1.12039862	10.58	-6.99	1.17E-05	0.000626227	0.973117478	3788
CDCA5	-2.18	-1.12191923	11.72	-7.79	3.86E-06	0.000292792	0.991049417	2523
RRM2	-2.18	-1.12329086	9.69	-6.22	3.74E-05	0.001277808	0.91776704	11614
NEIL2	-2.19	-1.13004986	9.06	-12.39	2.20E-08	1.29E-05	0.999942652	9071
UNC93A	-2.19	-1.13006459	9.52	-5.60	0.000100675	0.002398881	0.803304535	14260
CEP55	-2.20	-1.13488071	10.44	-7.26	7.97E-06	0.00049646	0.98158816	2628
ENC1	-2.20	-1.1402703	10.55	-5.66	9.07E-05	0.002285982	0.819543923	4091
PDLIM7	-2.23	-1.15431562	9.12	-4.71	0.000453599	0.006476697	0.469963659	9858
HES4	-2.25	-1.17297191	11.61	-6.47	2.55E-05	0.001007185	0.942733539	5489
ITFG3	-2.26	-1.17662812	9.84	-9.08	7.45E-07	0.000109229	0.998255009	6417
CCNB1	-2.29	-1.19297857	10.29	-9.39	5.13E-07	9.35E-05	0.99879213	2361
HRSP12	-2.29	-1.19820878	10.13	-8.73	1.14E-06	0.000144665	0.99734335	5703
KIF20A	-2.29	-1.19844196	10.45	-7.84	3.58E-06	0.0002784	0.991698325	6731
DNMT3B	-2.30	-1.20176323	8.76	-8.87	9.59E-07	0.000130627	0.997758009	3725
ETFB	-2.31	-1.204925	9.83	-4.02	0.001581109	0.015025955	0.200866295	4208
SOCS2	-2.33	-1.22129785	9.71	-2.82	0.015075817	0.068376875	0.026196281	12608
SQLE	-2.33	-1.22180828	10.62	-6.84	1.46E-05	0.000708392	0.966638156	12757
ARHGEF3	-2.34	-1.22483196	11.69	-9.76	3.33E-07	7.36E-05	0.999211483	725

CCNA2	-2.35	-1.22968054	11.43	-7.92	3.21E-06	0.00025898	0.992549816	2360
AASDHPPT	-2.39	-1.25750305	10.83	-12.70	1.65E-08	1.09E-05	0.999956235	22
KIFC1	-2.40	-1.26106951	10.13	-8.46	1.59E-06	0.000181194	0.996292394	6746
ZNF165	-2.42	-1.27278772	9.17	-11.63	4.60E-08	1.95E-05	0.999884366	14889
CDC20	-2.44	-1.285429	12.53	-6.60	2.10E-05	0.000906948	0.952475364	2482
ID11	-2.47	-1.30265208	10.79	-6.27	3.44E-05	0.001217303	0.923943585	6185
ISY1	-2.49	-1.31820859	9.40	-17.08	4.95E-10	1.26E-06	0.999998154	6412
CDKN3	-2.50	-1.3232119	10.87	-6.66	1.91E-05	0.000845866	0.956668415	2562

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