

Table 2: Genes altered by KDM1A inhibitor treatment

Gene ID	Control	NCD-38	fold change	p-value
IL32	0	60.54473	Inf	4.26E-20
LTA	0	9.0410419	Inf	0.00175
NFATC2	0.5114785	180.5751	353.0453633	1.07E-38
MTUS2	0.5114785	40.086613	78.37399979	2.01E-12
COL20A1	1.0229569	49.33705	48.22984135	2.36E-14
SLC8A2	0.5114785	22.358944	43.71434168	6.71E-07
FOSB	8.0526781	346.81335	43.06807601	9.83E-83
GABRR2	0.9855348	37.799183	38.35397924	8.57E-11
BHMT	0.9855348	33.687416	34.1818619	1.38E-09
BIRC3	16.011801	488.40523	30.50282924	3.81E-103
KLHDC7B	1.4783023	45.06019	30.48103934	3.14E-12
TNFRSF9	1.4970133	41.999554	28.05556475	2.97E-11
EHF	1.4970133	40.441028	27.01447458	8.24E-11
CXCL2	0.4927674	12.323187	25.00812047	0.000726
LOC100128071	0.4927674	11.980886	24.31347008	0.000984
LOC100130348	0.4927674	10.466662	21.24057223	0.002738
PRDM16	11.046705	212.74414	19.25860631	8.38E-23
HERPUD1	1180.6314	21119.093	17.88796517	0
CHST1	1.4970133	24.956487	16.67085202	2.29E-06
ADM2	11.483339	191.31553	16.66027034	3.03E-39
CDRT1	1.5344354	25.298788	16.48735986	1.70E-06
HRK	2.5199702	40.992725	16.26714631	7.85E-10
FOLR3	1.0042459	16.213445	16.14489531	0.000179
PTGS2	6.4621096	102.49998	15.86169042	5.82E-22
SYT4	42.802072	641.82502	14.99518577	1.43E-62
BEX5	10.479093	152.66665	14.56868947	1.34E-30
EDIL3	12.562429	182.93902	14.56239219	4.80E-36
C9orf150	12.562429	173.25768	13.79173374	1.21E-33
CA3	3.0314487	41.169932	13.58094302	2.47E-09
LOC344887	6.0441864	80.882056	13.38179388	1.77E-16
PLAC2	5.0399405	66.126419	13.12047628	5.47E-14
YPEL4	10.971861	143.3598	13.06613404	7.26E-28
DMGDH	18.587904	242.31183	13.03599488	2.56E-44
FAM71F2	1.4970133	18.988195	12.68405242	0.000103
NR4A3	7.996545	99.68093	12.46549974	8.41E-20
AKR1B10	16.52328	203.25212	12.30095496	3.70E-37
IRF1	124.9257	1515.8534	12.13403967	2.24E-169
C11orf75	1.4970133	17.518273	11.70214928	0.000259
ACRBP	3.5429272	41.169932	11.62031568	7.23E-09
ATF3	637.98936	7362.0932	11.53952333	0.00E+00
FGF19	2.0459139	23.397962	11.43643536	1.78E-05
SPTBN5	11.084127	125.94225	11.36239666	1.55E-23
F2RL2	14.02202	152.69884	10.88993159	1.85E-27
KCNQ3	36.589486	391.75275	10.70670273	6.56E-61
TRIM78P	2.0272028	21.497135	10.60433345	5.91E-05
CCL2	14.608343	152.67877	10.45147754	9.06E-20

C9orf24	2.0084918	20.933324	10.42240968	8.11E-05
PAPPA2	1.9897807	20.623211	10.36456459	8.63E-05
KCNK6	2.4825482	25.254487	10.17280833	1.45E-05
INHBE	9.4748473	95.758484	10.10659923	1.93E-17
C7orf57	2.5199702	24.082564	9.556685767	2.67E-05
DNAJB9	692.96093	6523.6931	9.414229319	2.82E-263
RELB	84.961688	788.90168	9.285381384	1.78E-89
SLC9A5	9.038213	83.556089	9.244757683	6.06E-15
BEX2	18.132559	165.89595	9.149064525	2.65E-27
LRRC2	1.9897807	18.126386	9.109740231	0.002668
NR4A2	19.04325	170.89376	8.973980795	1.36E-12
BMF	7.5411997	66.513022	8.819952436	5.32E-12
ALDH8A1	2.5012592	21.529323	8.607393641	0.002357
LEFTY1	2.5199702	21.662228	8.596223813	0.000113
CIITA	5.0773626	43.159363	8.500350785	3.59E-08
CMYA5	10.005037	84.562918	8.45203471	1.62E-08
HSD17B3	1.9897807	16.479256	8.281945703	0.001139
RASD1	10.042459	82.372052	8.202378833	2.22E-12
SLC38A1	123.02948	995.62942	8.09260872	1.05E-104
CHAC1	61.258999	493.90628	8.062591399	2.13E-63
LAMP3	3.5055051	28.238633	8.055510382	1.40E-05
TNFAIP3	106.15069	852.8092	8.033948889	5.77E-94
REPS2	2.4638371	19.672797	7.984617702	0.000356
CLDN1	10.535226	83.157372	7.893268702	7.69E-14
TMEM88	3.486794	27.421125	7.864280033	2.38E-05
C3orf35	2.5573923	20.071514	7.848429937	0.000566
JMY	331.84406	2597.3305	7.82696106	4.05E-171
CORIN	6.5369538	50.641879	7.747014964	6.47E-09
AQPEP	8.0152561	61.672351	7.694370698	1.76E-10
HSPA6	12.543718	94.739541	7.55274796	2.12E-13
SERPINB8	81.156806	611.47201	7.534451368	2.99E-71
LZTFL1	443.86425	3316.0587	7.470884893	6.31E-150
PI15	6.5182427	48.000034	7.363953095	2.54E-08
PPP1R15A	1356.4681	9897.4166	7.296461092	8.57E-237
SCN3B	32.666058	231.63577	7.091023054	1.33E-31
CCDC154	18.606615	131.85412	7.086410862	1.64E-19
ADAM32	5.0212294	34.770735	6.924745347	3.73E-06
WDR96	4.509751	31.222779	6.923393073	1.20E-05
MATN1	6.5182427	44.407775	6.812844683	1.64E-07
HGD	2.9940266	20.192306	6.744197243	0.000554
ARHGAP9	3.0127377	19.805703	6.573988627	0.000711
SERPINF2	3.486794	22.789849	6.536046826	0.000282
AGPAT9	164.35953	1062.1667	6.462458776	2.68E-93
LOC100129196	9.0943461	58.422394	6.424034599	3.61E-09
HSPA5	20452.947	131279.16	6.41859373	8.14E-249
C16orf71	18.587904	119.23294	6.41454426	8.70E-17
MFSD2A	248.76603	1583.683	6.366154649	1.69E-74

GPR35	7.5037776	47.689921	6.355454979	1.63E-05
OSGIN1	234.85628	1454.7124	6.194053447	5.08E-50
ARHGAP27	56.275192	344.38886	6.119727961	3.35E-39
MXD1	228.11979	1395.7185	6.118358095	1.18E-88
SRXN1	1674.0469	10142.459	6.058646665	4.97E-202
TSSK3	36.570775	220.04149	6.016866892	3.77E-27
VCAM1	66.149251	394.68048	5.966514733	1.70E-43
NUPR1	76.247843	453.54174	5.948256655	1.28E-48
ABLIM3	3.0501597	17.949178	5.884668217	0.002004
FAM189A2	17.109602	100.54274	5.876392603	9.14E-14
KLF4	110.75399	649.17048	5.861373084	1.69E-62
ULBP1	23.135077	132.63944	5.733261191	4.14E-17
C7orf63	17.908027	102.49998	5.723689414	1.45E-13
EIF2AK3	1157.6087	6604.2689	5.705096148	1.54E-176
C17orf91	224.42717	1275.6923	5.684215153	1.09E-38
BAIAP2L2	5.5327079	31.432174	5.68115553	0.000203
YPEL2	32.51637	182.46381	5.611444797	5.22E-22
MSTO2P	52.202075	292.75642	5.608137682	1.15E-32
SERINC4	18.076426	101.15085	5.595732924	2.36E-13
CELF6	19.118094	106.85333	5.589120604	4.84E-14
STXBP2	4.4723289	24.823582	5.550482158	0.000349
ZC3H12B	3.486794	19.330496	5.543916887	0.001732
MIR635	14.570921	80.362547	5.515268946	8.59E-11
COL11A2	28.57423	157.318	5.505590281	2.77E-19
EIF4E3	12.999063	71.099996	5.469624535	1.10E-09
TCP11L2	55.233524	301.77324	5.463588372	5.89E-33
RFPL3-AS1	5.9319201	32.394702	5.461081881	4.78E-05
HYOU1	8319.5038	45307.055	5.445884214	4.16E-206
C3orf20	4.0169835	21.839436	5.43677499	0.000872
SLFN5	41.043104	222.4819	5.420688832	6.53E-22
SPEF1	4.528462	24.304073	5.366959698	0.000446
ADAM8	7.996545	42.861364	5.359985278	2.82E-06
RPS27	20.521552	109.76099	5.348571526	8.22E-14
C17orf28	44.548609	237.37044	5.32834678	1.60E-26
GPR126	10.005037	52.675611	5.264909311	2.30E-07
TRIB3	1481.8115	7795.3931	5.26071861	3.04E-127
LOC339666	16.579413	87.192649	5.259091563	3.26E-11
CNTD2	3.9795615	20.889022	5.24907641	0.001435
GSDMB	41.136659	215.59953	5.241055937	4.48E-24
MBNL2	332.19957	1735.1096	5.223094082	7.22E-103
RSAD2	32.591214	169.08949	5.18819262	1.45E-19
DDIT3	1295.1155	6710.2241	5.181177967	4.22E-161
SYVN1	1270.2088	6539.4708	5.148343202	1.04E-159
LOC100131094	5.5139969	28.282934	5.129298259	0.000193
FBXO32	182.1303	931.64956	5.115291539	4.35E-71
PLA2G4C	72.835893	372.52678	5.114604382	6.58E-18
CLDN15	128.71187	656.24216	5.098536344	1.90E-56

KCNG1	18.606615	94.695239	5.089331766	1.41E-09
TG	7.0671433	35.809752	5.067076035	2.67E-05
FAM83G	4.0169835	20.28091	5.048790867	0.001852
MUC20	11.539472	58.124395	5.037006364	9.05E-08
OAS2	6.9735881	35.068734	5.028793486	3.52E-05
SNORD19B	5.4952858	27.421125	4.989936045	0.000308
KIAA1875	10.535226	52.156103	4.950639055	5.01E-07
LOC652276	27.170772	134.18585	4.938610261	1.46E-15
CP	7.5224886	37.146769	4.938095707	2.30E-05
MAFF	311.69673	1534.3865	4.922690425	1.55E-91
FRY	184.89351	909.71737	4.920223375	6.86E-68
ISG20	20.103629	98.641913	4.90667201	6.59E-12
SPATA17	52.732265	257.75207	4.887938492	1.70E-26
TFAP2E	9.0943461	44.452077	4.887880538	3.40E-06
NFKB2	282.19309	1377.5316	4.881521221	7.97E-86
HSP90B1	24463.656	119245.79	4.874405897	6.88E-175
CNKSRI	5.5139969	26.724409	4.846649233	0.0004
TRAF1	9.5309804	46.131395	4.840152099	0.000764
RNU86	5.0212294	24.171167	4.813794664	0.000785
EGR1	290.93193	1376.8871	4.732677919	2.63E-83
KDM6B	395.53562	1871.6954	4.732052583	7.60E-67
DNAH17	20.596396	97.3935	4.728667045	2.06E-11
C6orf27	4.4910399	21.231323	4.727484866	0.001954
CDK2AP2	605.29204	2856.1289	4.718596475	1.29E-36
NOD2	5.5514189	26.160598	4.712416491	0.000509
LAT	38.785088	182.62891	4.708740238	2.22E-19
CA13	71.15177	334.66737	4.703570636	8.95E-29
DNAJA4	5.588841	26.071994	4.665009133	0.000719
AMIGO3	197.68047	920.24841	4.65523175	4.42E-65
HSP90B3P	1620.9714	7497.1166	4.625076391	9.88E-146
PNRC1	355.24109	1640.9539	4.619268394	7.24E-89
SCN9A	12.107084	55.48255	4.582651855	4.79E-07
OASL	7.5037776	34.33983	4.576339036	9.12E-05
C5AR1	16.579413	75.807762	4.572403328	4.72E-09
FOXP2	81.593441	373.01825	4.571669617	2.03E-33
LRRN4CL	63.984791	292.42208	4.570181127	7.31E-28
NFIL3	79.95917	365.30211	4.56860815	4.23E-33
GOLGA7B	35.603951	162.0057	4.550216735	6.20E-17
SPSB3	264.71542	1191.7251	4.501910177	1.59E-51
ITIH4	18.569193	83.423183	4.492558267	1.25E-09
SOD2	1304.7899	5858.3172	4.48985471	4.22E-134
SLC7A11	2318.1551	10332.982	4.457416156	3.97E-82
VWCE	8.5267345	37.875673	4.441990399	6.05E-05
TSPYL2	692.89852	3067.13	4.426521219	3.25E-110
USP36	924.17445	4072.5854	4.406728003	3.95E-120
WARS	2423.551	10659.102	4.398134185	1.87E-145
GDF15	238.81085	1042.3485	4.364745158	7.11E-16

ABCC2	6.0628974	26.426409	4.358709656	0.000812
ASNS	1832.4058	7962.9213	4.345610192	5.90E-137
RRP12	536.87234	2331.3546	4.342474748	1.01E-97
CEBPB	296.85757	1285.8205	4.331439092	2.56E-73
SERP1	1737.7759	7519.8618	4.327290951	4.22E-135
HDAC9	827.84797	3581.9738	4.326849722	5.86E-113
FLJ42627	19.498595	84.240691	4.3203467	2.13E-09
C4orf34	515.3154	2204.0473	4.277084056	1.08E-93
ATF4	3586.6237	15276.014	4.259162791	7.31E-146
ARF4	7244.8299	30706.913	4.238458779	6.10E-152
AVIL	46.762922	197.70677	4.227853181	3.11E-10
FKBP11	210.24918	887.13691	4.219454797	1.89E-57
GABARAPL1	106.31909	447.19896	4.206196401	1.12E-35
DNHD1	155.22776	652.60976	4.204207814	1.57E-46
SEL1L	6330.2426	26575.735	4.198217447	4.81E-149
NLRC4	8.5267345	35.721149	4.189311693	0.000121
ICAM1	553.91338	2318.2661	4.185250323	1.58E-93
KCND1	31.112911	130.0862	4.181100212	4.03E-13
STX3	69.692178	290.71058	4.171351569	2.86E-25
NCRNA00219	78.424734	326.37946	4.161690405	1.08E-11
OTUD1	49.700816	206.63498	4.157577227	3.80E-19
PLAG1	6.0067643	24.956487	4.1547306	0.001606
WIPI1	845.15096	3467.1665	4.102422717	3.47E-105
VWA5B2	21.182719	86.528121	4.084844901	2.88E-09
MAP1LC3B	3040.0022	12373.167	4.070117683	2.33E-134
ACCN3	55.233524	224.34258	4.061710347	1.41E-16
TCP10L	10.042459	40.694725	4.052267067	5.30E-05
TTC25	47.106002	190.77595	4.049928769	2.17E-17
TLR3	14.55221	58.865413	4.045118472	1.29E-06
WDR66	18.569193	75.066744	4.042541967	3.76E-08
TMEM39A	467.33613	1887.011	4.037802537	4.07E-82
SLC22A20	5.5514189	22.403246	4.035589178	0.00313
PILRA	10.479093	42.253251	4.032147676	4.32E-05
KLF5	37.705998	151.50685	4.018109905	2.61E-14
UNC13D	37.649865	150.45571	3.996182014	3.32E-14
C5orf41	202.27135	806.91143	3.989252256	7.86E-51
KCNJ14	28.062752	111.92763	3.98847655	4.69E-11
KIAA0415	1275.7849	5071.5482	3.975237534	2.40E-17
TNFRSF10B	2099.9718	8333.1118	3.968201718	1.37E-123
RAB39B	424.32823	1679.7641	3.958643257	8.77E-76
SLC5A12	5.9880532	23.607357	3.942409329	0.002591
LOC729513	31.112911	122.64799	3.942028592	7.68E-12
CYP27B1	90.325997	355.67719	3.937705659	6.30E-28
COLQ	22.623599	88.871967	3.928285975	4.49E-09
MAP1LC3B2	320.75993	1257.4853	3.92033159	1.23E-64
LYSMD3	537.15313	2102.651	3.914435011	6.67E-62
NEBL	1336.9321	5232.8627	3.914082734	7.20E-111

GCLM	609.74578	2373.5722	3.892724213	1.81E-31
SYNE1	1036.4629	4022.3911	3.880882907	1.34E-102
ZNF222	128.86784	498.46522	3.868034204	3.79E-17
ZFP36	213.90437	827.04316	3.866415383	3.84E-50
CD24	328.78762	1267.8149	3.856029925	5.79E-64
LOC202181	20.764796	80.008132	3.853066223	3.09E-08
PDXDC2P	162.91865	626.43704	3.845091134	3.22E-41
ZNF841	381.62587	1457.3788	3.818867887	5.61E-68
ARTN	10.479093	39.953707	3.812706563	0.000103
SPAG4	9.0007909	34.251227	3.805357431	0.000358
PIM1	106.5062	404.69201	3.799703889	7.57E-30
SEC24A	1450.9606	5500.9728	3.791262619	9.41E-108
FOXO4	33.689015	127.65375	3.789180297	7.17E-12
JAKMIP3	22.586177	85.412614	3.781632199	1.81E-08
CCDC65	25.124858	94.928863	3.778284508	3.20E-09
EPB41	508.06114	1917.0781	3.773321672	4.49E-76
FBXL19-AS1	159.54412	600.87244	3.766183601	3.36E-39
ADAMTS9-AS2	7.9591229	29.974366	3.766038822	0.001028
BMS1P4	24.538536	92.03332	3.750562862	6.91E-09
TAF1D	324.64594	1213.5607	3.738105247	5.23E-60
C11orf42	7.0297212	26.249202	3.734031711	0.002016
CEP95	567.46762	2117.3018	3.731141161	3.04E-78
KCNH8	28.649074	106.86545	3.730153562	4.90E-10
BACH2	71.719381	267.47771	3.729503869	3.63E-21
OVGP1	8.5267345	31.56508	3.70189545	0.000688
SEC24D	2287.3979	8443.924	3.691497686	1.55E-112
TNXB	21.619353	79.577228	3.680832958	8.49E-08
TRIM16L	276.76022	1018.2542	3.679192639	2.20E-53
ALDH1L2	1411.2338	5176.345	3.667956962	1.13E-101
N4BP2L1	36.11543	132.29714	3.663175029	1.05E-11
ISL2	32.778324	119.39803	3.642591023	7.96E-11
MIAT	271.30236	986.81404	3.637322004	3.98E-40
SESN2	790.09827	2865.9756	3.627366059	4.67E-85
ACAP1	9.5684025	34.682131	3.624652229	0.000437
SLC38A2	2786.0153	10081.858	3.618737506	3.68E-112
PLCB4	58.626763	211.39916	3.605847434	7.77E-17
EDA2R	405.22885	1460.3788	3.603837269	2.22E-63
DNASE1L2	22.436489	80.82564	3.602419325	1.06E-07
SQSTM1	8795.4287	31575.307	3.589967957	2.59E-122
ARFGAP1	1463.3921	5243.6669	3.583227575	1.07E-81
TACR2	7.5224886	26.901616	3.5761591	0.002414
SPSB1	103.53088	369.62328	3.570174151	5.15E-26
LTB4R2	15.575167	55.603342	3.569999754	0.000115
ANXA1	497.99369	1776.0179	3.566346102	1.52E-68
C14orf28	74.619853	265.68556	3.56052111	4.43E-20
DYRK3	80.776305	286.9733	3.552691583	2.85E-21
SPTY2D1	890.39188	3158.1523	3.546924009	4.39E-85

ELMO3	35.75364	126.79194	3.546266688	4.70E-11
HSD17B7P2	34.768105	123.17961	3.542891096	3.31E-10
DNAJC25	275.39419	975.17545	3.541016849	2.03E-46
SDF2L1	338.40587	1189.3732	3.514635357	1.90E-55
CRELD2	1132.8516	3980.1655	3.513404011	3.37E-90
KIAA1683	19.59215	68.723963	3.507729443	1.30E-06
SGTB	674.39174	2364.8572	3.506652028	3.18E-73
NCRNA00176	29.541054	103.40609	3.500419923	3.91E-09
CEBPG	2346.9915	8194.7062	3.491579059	1.93E-103
SEL1L3	110.92239	386.56563	3.485009796	3.57E-26
SELK	1011.6063	3515.7909	3.475453915	2.17E-85
RAD9A	314.48493	1091.5488	3.47090983	7.00E-52
LOC388152	7.977834	27.63052	3.463411285	0.002416
ZNF547	73.066706	252.77849	3.45955774	1.44E-18
IFT20	152.05905	525.15329	3.453614095	3.07E-32
DOK3	18.076426	62.401255	3.452079272	4.40E-06
TMEM41B	958.08813	3292.278	3.436299725	2.53E-82
MX1	69.823156	239.92368	3.436162073	8.20E-18
DUSP8	89.639839	307.34281	3.428640865	1.21E-21
LIN37	168.99397	579.1095	3.426805596	2.35E-34
LOC285593	15.082399	51.636594	3.423632604	3.31E-05
CFP	10.06117	34.33983	3.413105099	0.000777
SLC6A9	68.213876	232.13105	3.402988707	3.59E-17
ECE2	62.375511	212.14814	3.401144702	4.73E-16
GOLGA3	2552.5185	8619.5418	3.376877251	1.19E-99
KIAA1804	9.0195019	30.405271	3.371058736	0.001819
C11orf66	15.575167	52.454102	3.367803551	3.28E-05
IFIH1	132.2985	444.91949	3.362997174	2.69E-15
APBB3	191.37433	643.34305	3.361699816	4.42E-36
FAM100A	93.956199	315.7837	3.360967209	6.12E-06
TLR9	12.674695	42.595552	3.360676617	0.000174
MNT	611.04928	2051.4488	3.357255923	2.05E-39
L1CAM	21.544509	72.259805	3.353977812	1.27E-06
AMH	161.12841	539.98126	3.351248044	4.45E-20
WDR19	551.37469	1847.5166	3.350746053	3.95E-64
BTG1	1003.7844	3354.4657	3.341818927	9.58E-80
STK19	83.464675	278.77399	3.340023719	2.40E-19
LYG1	10.098592	33.55451	3.32269196	0.000965
PGM3	1297.124	4299.5982	3.314716363	2.13E-84
LAMB4	56.655693	186.8092	3.297271529	2.03E-07
RAGE	72.854604	239.22696	3.283621745	6.85E-17
THBS1	348.40476	1138.0668	3.266507727	4.92E-49
C14orf43	1412.843	4607.7298	3.261317692	3.26E-84
NFKBIZ	95.989682	312.6265	3.256876126	1.53E-20
FOS	530.58491	1726.3987	3.253765259	5.93E-60
CYB5D1	476.28079	1545.2398	3.244388188	1.03E-56
YJEFN3	20.047496	64.998798	3.242240306	7.07E-06

GARS	6449.8537	20886.515	3.238292848	3.47E-102
ALS2CR12	45.041377	145.52644	3.230950083	4.84E-11
TRIM5	432.33721	1393.5678	3.223335358	1.68E-53
DNAJC3	2871.6506	9254.1577	3.222591803	8.91E-94
VMAC	57.659939	184.75124	3.204152597	2.86E-13
GOLGB1	2223.7935	7118.3682	3.201002392	3.53E-74
LOC100507034	34.032094	108.81058	3.197292995	1.21E-08
DNAJB4	336.35381	1072.2467	3.187853678	1.24E-45
RRN3P1	26.528316	84.341409	3.179297464	5.61E-07
XBP1	2020.8299	6419.2802	3.176556384	3.08E-86
RAB33A	62.625035	198.82228	3.17480504	8.00E-14
GORAB	286.59686	909.03277	3.17181691	2.62E-41
RND1	37.74342	119.61954	3.169281884	2.62E-09
GFPT1	2410.4148	7634.0613	3.16711518	1.56E-88
PANX2	71.563413	225.24453	3.147481718	1.86E-08
ZNF804B	14.608343	45.934113	3.14437534	0.000222
BEST1	17.07218	53.581723	3.138540168	6.34E-05
APBA3	151.69098	476.02148	3.138100049	9.72E-14
DEDD2	194.23738	609.36975	3.137242434	1.03E-31
LOC284454	28.062752	87.953741	3.134180926	3.22E-07
GPNMB	149.78233	469.25991	3.132945784	1.89E-26
ANKS3	143.85669	450.42884	3.131094263	1.81E-25
MAFK	170.92134	534.76194	3.128702001	1.86E-07
MC1R	138.67949	433.77238	3.127877002	7.33E-25
LRP5L	13.66023	42.684156	3.124702544	0.000351
F2RL1	11.50205	35.886242	3.119986599	0.00213
ARID3A	9.5684025	29.797158	3.114120512	0.003162
CDK20	470.99132	1465.8799	3.112328862	2.78E-52
ATG13	1309.5803	4073.0606	3.110202954	7.32E-76
CLK1	1052.1379	3269.7058	3.107678073	2.55E-65
KRTCAP3	16.030512	49.780069	3.105332427	0.00014
GOLT1B	1581.8434	4911.5738	3.104968498	7.66E-79
PAIP2B	10.005037	31.057685	3.104204985	0.002988
SLC10A7	195.2042	605.60444	3.102414943	5.97E-31
BBC3	123.51596	381.8094	3.091174558	5.06E-06
TXNL4B	516.36335	1595.8695	3.090594116	1.20E-53
DIEXF	742.66175	2294.3331	3.089337903	6.35E-51
TXNRD1	8012.5606	24703.52	3.083099232	2.74E-95
TUBE1	220.2168	678.51666	3.081130373	4.80E-33
MSTO1	163.33657	502.49219	3.076421826	4.46E-26
GADD45B	104.34802	320.2177	3.068747314	1.89E-19
BMP8A	20.028785	61.197145	3.055459718	2.97E-05
P4HA2	366.36892	1119.107	3.054590515	5.09E-44
GOLPH3L	326.47975	994.98912	3.047628893	3.93E-41
AGAP6	52.10852	158.42555	3.040300346	5.91E-11
ZNF587	466.21962	1415.9631	3.037116103	2.28E-49
HBP1	696.24819	2111.0514	3.032038666	1.03E-58

TFB2M	340.02771	1029.3289	3.027191335	1.61E-41
ANKZF1	400.75652	1213.0934	3.027008583	1.70E-45
LOC100506472	13.491831	40.815517	3.025202251	0.002245
LTB4R	162.68783	491.7881	3.022894127	7.27E-26
BLZF1	635.71264	1921.6488	3.022826222	2.25E-56
CARS	1637.3014	4949.1512	3.022748944	7.34E-76
APOL2	653.38357	1973.8814	3.021014777	4.69E-57
HINFP	319.07581	958.51484	3.004034822	2.08E-39
GOLGA2	2573.433	7730.5438	3.003980976	7.10E-82
DNAJB11	2500.3543	7491.1888	2.996050958	1.28E-80
C7orf53	18.569193	55.615456	2.995038844	8.12E-05
NAALAD2	20.409286	61.108541	2.994153809	4.13E-05
PCK2	608.79754	1822.5597	2.993704189	1.54E-54
SLC4A5	85.267345	254.88871	2.9892887	1.01E-15
DCAF4L1	19.136805	56.996774	2.97838505	6.56E-05
COL7A1	81.418761	242.47692	2.978145548	4.25E-15
PNPLA7	41.629427	123.6427	2.97007938	8.23E-09
ZHX2	328.76891	976.12967	2.969044984	2.33E-39
LOC100271836	17.147024	50.895576	2.968187098	0.000158
DSE	68.475831	202.87763	2.962762572	5.10E-13
NPRL2	437.04035	1290.3067	2.952374389	3.19E-45
PIGA	390.34599	1152.0292	2.951302728	9.63E-43
ARMCX1	494.52561	1457.6567	2.947585857	9.96E-43
IL18BP	73.160261	214.8021	2.93604881	2.03E-13
LONRF3	12.069662	35.423149	2.934891661	0.002072
CREB3	1367.7892	4013.7685	2.934493516	7.44E-69
PCMTD1	207.73549	609.05168	2.931861445	1.24E-28
LIF	197.53706	578.5578	2.928856956	1.03E-27
TRIM16	598.89862	1752.4143	2.926061709	1.50E-51
FLRT2	48.69657	142.2886	2.921942882	1.26E-09
AKNA	448.14934	1308.88	2.920633448	5.53E-34
MOCOS	14.115576	41.169932	2.916631488	0.000844
PMM2	750.28394	2188.2083	2.916506922	2.88E-56
HMOX1	668.22273	1947.9666	2.915145631	1.36E-53
FTL	6208.5413	18096.103	2.914710973	2.06E-85
CHRNA9	34.013383	99.04063	2.911813562	3.53E-07
REC8	37.175809	108.24677	2.911752785	9.12E-08
PPAPDC1B	753.72717	2193.4397	2.910124305	6.58E-56
ADPRHL1	14.078153	40.871933	2.903216889	0.000999
PTPRN	67.415452	195.05281	2.893295325	3.27E-12
SP140L	146.48892	423.60372	2.891711609	6.31E-22
GNN	12.980352	37.41258	2.882246879	0.001887
NFKB1	605.43557	1744.1908	2.880885863	3.25E-50
FOSL1	211.34698	608.52801	2.879284145	3.62E-28
TGDS	295.59765	851.07346	2.879161803	1.42E-34
SSSCA1	209.33221	602.09663	2.876273222	5.47E-28
TBC1D23	1465.9933	4213.3359	2.874048547	3.68E-67

DOM3Z	160.66063	461.64448	2.873413859	3.43E-23
ARFIP2	951.88784	2735.0439	2.873283784	1.56E-59
TRIM52	204.37339	586.6242	2.870355048	2.66E-27
LOC401233	19.04325	54.62074	2.868246797	0.000157
SRP54	2283.6554	6541.1996	2.86435494	2.81E-61
GTF2IRD2	35.678796	102.15768	2.863260368	3.11E-07
COG3	903.5969	2585.6719	2.861532469	1.29E-50
ZNF331	667.17478	1907.9928	2.859809517	1.56E-51
EBF2	248.0363	707.61294	2.852860387	1.69E-30
DKFZP564C196	37.668576	107.46145	2.852814088	1.46E-07
ZNF791	472.98738	1349.2165	2.852542175	8.47E-44
ACBD3	2269.9826	6472.4954	2.8513414	1.61E-72
NCRNA00346	24.120612	68.591057	2.843669801	2.56E-05
PRSS53	40.681314	115.37487	2.836065377	6.17E-08
IDI2-AS1	20.615107	58.345904	2.830249852	0.000113
PPIL6	43.619207	123.3447	2.827761207	3.02E-08
CWC25	472.17025	1334.7387	2.826816713	6.02E-43
ZNF550	147.94223	417.72403	2.823561738	4.56E-21
ZFAND2A	902.0499	2540.7041	2.816589279	5.63E-56
PDIA4	8037.5539	22619.666	2.814247558	2.36E-81
KLHL21	712.19744	2003.175	2.812668046	2.08E-51
JMJD6	717.10641	2016.767	2.812367864	2.52E-51
OPTN	1900.0895	5340.8437	2.810837986	3.08E-68
CIR1	368.18402	1033.9602	2.808270229	3.78E-37
NAMPT	2575.1112	7230.8596	2.807979506	3.56E-56
LOC146880	179.11756	502.23053	2.803915689	1.27E-23
MAN1A1	555.05488	1556.3187	2.803900553	1.72E-45
NAT9	610.26341	1710.7813	2.803348947	1.19E-47
SEPHS2	1188.6903	3330.3672	2.801711351	1.98E-60
CREB5	1314.8761	3681.0708	2.799557199	5.52E-62
POFUT2	1171.5683	3279.2134	2.798994666	3.03E-60
HPX	19.648283	54.930853	2.795707499	0.000206
CYP4F11	169.81111	474.66439	2.7952493	1.00E-22
GMPPB	386.40385	1079.8296	2.79456222	6.43E-22
PHGDH	506.97577	1416.575	2.794167086	1.35E-43
LARP6	583.27347	1628.8924	2.792673578	1.78E-46
CCRN4L	134.77477	374.58474	2.779338737	4.25E-19
MAFG	1829.3679	5078.5524	2.776124098	1.98E-66
TMF1	1887.3151	5238.912	2.775854479	1.83E-41
TTLL11	86.383857	239.50489	2.772565338	1.65E-13
RNMT	1765.3147	4892.686	2.771565873	2.02E-65
CCDC40	78.331179	216.91232	2.769169609	1.44E-12
MTRNR2L2	18.076426	50.033766	2.767901493	0.000407
CBLB	434.32699	1201.8979	2.767264971	1.76E-39
PDE4C	19.080672	52.752101	2.764687824	0.000267
BEX4	358.67175	990.53505	2.761675672	2.44E-35
KLHL28	701.09474	1935.4703	2.760640212	1.13E-48

N4BP2	885.18982	2442.2678	2.759032802	3.78E-53
LOC150622	35.603951	98.211008	2.758430004	9.84E-07
STX5	776.78112	2142.5885	2.758291131	8.84E-51
DND1	37.799554	104.04639	2.752582621	4.41E-07
CCT6P1	171.88202	472.83209	2.750910783	6.19E-22
C17orf51	710.25137	1953.8099	2.750871034	7.14E-49
NBR2	65.824883	180.80457	2.746751084	8.42E-11
RCAN1	5306.2297	14574.468	2.746671105	3.53E-75
RHBDL1	24.688224	67.761435	2.744686508	4.09E-05
C9orf72	554.27517	1520.6581	2.743507553	7.58E-21
NPHP3-ACAD11	67.328177	184.52973	2.740750482	2.45E-07
ZNF417	242.69071	664.56641	2.738326592	1.81E-27
FICD	283.30961	774.9677	2.735409197	2.70E-30
PILRB	926.00211	2530.6721	2.732901027	3.04E-53
SH2D5	25.598915	69.928073	2.731681182	3.70E-05
TMEM71	151.65984	414.24045	2.731378644	5.76E-20
ARL5B	826.33225	2254.2544	2.728024291	1.06E-50
EN2	19.498595	53.138704	2.725258091	0.002273
STC2	96.881662	263.77262	2.72262692	1.57E-09
CCDC57	163.74821	444.87519	2.716824696	2.43E-12
CCDC9	441.99917	1198.8088	2.712242324	1.79E-32
DUSP10	67.134786	182.0651	2.711933804	1.36E-10
SLC47A2	18.587904	50.376068	2.710153137	0.000461
LRIF1	840.26071	2277.1772	2.710084101	2.67E-50
ZBTB49	130.66423	353.66353	2.706659088	1.49E-17
PPM1K	275.44404	744.64308	2.703427816	6.16E-29
GTPBP2	877.41153	2368.4169	2.699322734	6.71E-51
ERO1LB	339.34784	915.57698	2.698048689	1.55E-32
KLF6	3480.1862	9388.6453	2.697742259	9.98E-70
UBE2B	740.47858	1996.3816	2.696069327	2.18E-47
GCC1	825.85819	2224.3888	2.693427006	2.13E-49
PDLIM1	81.911528	219.95288	2.685249402	4.04E-12
ZNF622	530.54121	1423.3328	2.682794046	8.66E-41
GRIN2C	26.203948	70.270374	2.681671238	4.16E-05
PDIA2	52.807109	141.49116	2.679396119	1.15E-08
LOC646999	19.155516	51.249991	2.675469099	0.000505
NKX6-1	69.573632	185.99966	2.673421677	1.16E-10
UFM1	2764.4522	7384.6259	2.671279968	8.33E-36
CCDC39	43.600496	116.22872	2.665765881	0.002208
ATP6V1C2	31.512124	83.942692	2.663822113	1.10E-05
IRF7	97.729939	259.97097	2.660095456	6.16E-08
LOC100129917	35.03634	92.983734	2.653922592	4.18E-06
SLCO3A1	32.628636	86.439517	2.649191885	7.41E-06
GNL3	1753.2202	4640.3028	2.646731318	3.15E-38
MAP7	50.231005	132.89314	2.645639643	4.59E-08
TBC1D15	1430.0089	3783.2247	2.64559529	1.10E-36
CCDC96	30.108666	79.488624	2.640058012	2.02E-05

CELSR3	849.29879	2241.8908	2.63969615	4.66E-48
ASB3	34.730683	91.634603	2.638433685	4.41E-06
MTHFD2	1049.2935	2757.7936	2.628238419	4.71E-51
STAT2	1585.6981	4166.3829	2.627475466	2.72E-57
COL4A3	15.10111	39.655708	2.626012731	0.002554
C20orf111	889.60602	2333.7753	2.623380694	6.51E-48
NEAT1	2888.5671	7563.884	2.618559244	7.49E-35
PNPLA8	1784.7884	4667.8364	2.615344357	4.07E-58
C14orf45	87.69376	229.27185	2.614460245	1.13E-10
PVT1	66.966387	174.96918	2.612791153	1.01E-09
C10orf118	239.31618	624.93493	2.611335925	2.08E-24
ZFPL1	418.89523	1087.8759	2.597011985	8.87E-18
KIAA1024	98.665621	256.19354	2.596583671	7.06E-13
LOC100130705	72.667494	188.67369	2.596397341	2.87E-10
KCNT2	108.85777	282.57565	2.595824374	6.98E-14
MYH3	42.745939	110.93291	2.59516845	8.18E-07
WDR85	466.52527	1210.2301	2.59413616	1.58E-35
CCT6P3	81.156806	210.51728	2.593957145	0.000191
WDR45	317.19829	822.36378	2.592585768	1.66E-28
TECTA	50.100028	129.87681	2.592349947	1.27E-07
TMOD1	245.92798	637.34257	2.591582221	1.40E-24
TMEM45A	253.26335	655.88394	2.589730925	6.45E-17
SELS	2400.784	6212.0167	2.587495071	1.57E-60
SLC37A1	36.589486	94.663051	2.587165358	4.96E-06
CCDC146	103.43733	267.38115	2.584958018	1.39E-08
HK2	453.42637	1170.5944	2.581663778	9.35E-35
ZCCHC7	481.20846	1241.6986	2.580375656	1.33E-35
FAM174B	35.167317	90.551284	2.574870412	7.82E-06
KCTD15	721.46647	1855.6955	2.57211602	1.18E-42
PLEKHM1P	92.315777	237.09667	2.568322269	6.63E-12
PAWR	79.678504	204.61336	2.567986985	1.23E-10
ELL2	209.17009	537.12206	2.567872188	1.49E-21
USP53	157.4982	404.18462	2.566280785	1.08E-17
FIBIN	391.75573	1004.6583	2.564501966	1.62E-31
C3orf19	512.5709	1312.1583	2.559954737	5.11E-36
TAF4B	25.580204	65.441817	2.558299317	0.000178
SEMA3D	42.197038	107.94877	2.558207167	1.56E-06
LONP1	3237.4951	8280.5037	2.557688426	2.21E-31
ANKRD33B	184.34461	471.19707	2.556066471	1.57E-19
JUND	715.33475	1824.0497	2.549924697	2.43E-13
OSBP	2474.0192	6307.2598	2.549398082	7.21E-59
TLCD2	86.234169	219.56628	2.54616334	3.93E-11
ATAD3B	142.27855	362.18091	2.545576367	3.70E-06
CYLD	930.58671	2367.833	2.544451777	1.10E-45
TSSK4	36.11543	91.888301	2.544294808	8.30E-06
FAM8A1	850.62126	2159.9015	2.539204707	6.70E-44
LOC283624	715.85264	1817.5782	2.53903962	2.64E-41

NFKBIA	610.42553	1547.7286	2.535491296	2.34E-38
LOC100131691	54.62849	138.44264	2.534257126	9.66E-08
BET1L	1627.053	4112.354	2.527486155	3.40E-53
LOC399744	25.124858	63.440273	2.525000224	0.000224
CLCN6	1145.4641	2889.3217	2.522402758	5.37E-48
WBP1	25.106147	63.218763	2.518059134	0.000227
C22orf23	418.27777	1053.0934	2.517689245	3.02E-31
ZNF598	533.84704	1343.8359	2.5172676	8.52E-15
ZGLP1	28.74263	72.348409	2.517111691	8.18E-05
GPRC5A	58.452083	147.11715	2.516884702	3.53E-08
CALCOCO1	819.73301	2060.5947	2.513738852	1.90E-42
LBH	203.36915	511.15874	2.513452739	3.29E-20
SLC30A7	865.26074	2172.8366	2.51119287	2.69E-43
ZNF295	1344.8849	3368.2591	2.504496184	2.23E-49
GRIK2	39.751912	99.503722	2.503117883	4.94E-06
IARS	6181.0777	15469.38	2.502699555	2.70E-63
ADCK3	278.55661	696.78391	2.501408611	2.06E-24
SLU7	781.80235	1955.5377	2.501319788	3.39E-41
LRRC48	30.788543	76.979684	2.500270425	5.59E-05
DERL1	2366.5773	5916.8884	2.500188064	4.56E-56
BET1	485.89289	1214.4588	2.499437336	4.24E-33
FAM114A1	886.98621	2211.9164	2.493743828	5.92E-43
THSD1P1	113.21155	282.28976	2.493471396	5.06E-13
LRRC49	437.33358	1090.3932	2.493275704	3.40E-31
CCNT1	470.42999	1172.5036	2.492408233	2.27E-32
CTSK	99.214521	247.22103	2.4917827	8.15E-10
HMGA2	70.771268	176.18541	2.48950473	3.90E-09
MYO5B	127.00904	316.02944	2.48824371	3.44E-14
OSBPL2	1100.0297	2735.9784	2.487185827	5.88E-46
HIVEP2	264.22893	656.85443	2.485929217	3.21E-23
NMNAT2	468.74587	1164.1309	2.483501095	3.45E-32
NFXL1	350.90602	870.49672	2.480711851	2.63E-27
EHD4	314.78431	780.28358	2.478788049	8.98E-26
LOC100505783	345.19863	855.15304	2.477278202	4.21E-27
QPCTL	191.73612	474.93816	2.477040619	1.08E-16
TRMT1	690.92117	1711.216	2.476716703	6.81E-36
TGIF1	1066.7525	2636.7765	2.471779036	6.76E-45
RBM44	20.047496	49.526372	2.470451802	0.001604
NCRNA00174	149.40182	368.98298	2.469735417	1.20E-15
DDX18	1654.6606	4085.5898	2.469140729	1.85E-50
CCDC144B	67.172208	165.73086	2.467253407	1.54E-08
SLC1A5	1735.9231	4282.18	2.466802832	1.76E-30
LTN1	1734.2331	4277.727	2.466639017	1.83E-40
CRIPT	330.63399	815.30005	2.465868839	5.21E-26
PARD6B	37.082254	91.215812	2.459823863	2.03E-05
MAGEH1	85.741402	210.87965	2.459484556	3.31E-10
ACCN4	59.269218	145.61504	2.456840958	9.70E-08

GOLGA5	1650.8182	4055.3132	2.45654738	6.85E-50
IKZF5	140.46345	344.96479	2.455904341	9.25E-15
PKD1P1	35.697507	87.61144	2.454273378	2.44E-05
EGR2	175.19413	429.89008	2.453792733	2.88E-17
ARMCX3	2970.1727	7287.0465	2.453408359	7.16E-56
DGCR9	20.652529	50.553275	2.447800666	0.001313
LOC144438	949.20588	2322.6482	2.446938281	1.10E-31
ZNF805	418.7144	1023.4735	2.44432358	3.85E-29
CHCHD7	218.28943	533.55403	2.444250426	1.38E-18
TUBA8	27.49514	66.943927	2.434754903	0.000266
RGS10	38.030366	92.287018	2.426666537	2.14E-05
ZNF432	288.4868	699.3856	2.424324419	6.52E-21
ACRC	40.169835	97.304896	2.422337434	1.28E-05
DDR2	1019.7151	2469.2697	2.421529128	3.28E-42
UGDH	788.40172	1908.8546	2.421170014	2.93E-38
XPOT	4513.8237	10920.838	2.419420559	4.18E-57
BOD1L	2257.7194	5459.2633	2.418043266	1.24E-51
KIAA0913	1197.0674	2888.4595	2.412946497	3.80E-44
ATXN1	882.34535	2128.7185	2.412568406	5.42E-40
DCUN1D3	123.92146	298.74479	2.410759196	7.33E-13
SEC31A	5773.4848	13917.515	2.410591837	3.83E-58
NCRNA00338	161.66488	389.70691	2.410584867	1.60E-15
METTL19	165.77542	399.37613	2.409139693	7.40E-16
1-Mar	36.134141	86.97114	2.406896571	4.08E-05
LOC100506710	1486.7207	3576.3557	2.405533053	2.09E-46
ZNF697	140.53829	337.48643	2.401384167	4.36E-10
GDPD3	26.185237	62.876462	2.401217969	0.000427
LOC646851	112.38198	269.57997	2.398782815	1.01E-11
ATF6	3490.7277	8371.29	2.398150402	2.30E-54
NUB1	1150.9658	2759.8716	2.397874684	8.82E-43
FAM86HP	19.536017	46.828111	2.397014217	0.002399
EXT1	750.77056	1795.7993	2.391941609	1.82E-36
ATXN3	223.53519	534.62523	2.391682637	6.10E-19
LOC100289019	85.909801	205.45094	2.391472698	1.08E-09
ZNF202	343.26498	819.7742	2.388167264	9.38E-25
PLK1S1	306.14531	729.83518	2.383950236	2.10E-19
PPIEL	65.163716	155.2199	2.381998819	1.06E-07
FTSJ1	742.36224	1767.5444	2.380972981	4.00E-36
SAMD4A	1047.8651	2494.7499	2.380793007	6.50E-41
CEBPD	229.16145	545.55499	2.380657742	4.33E-19
GFPT2	22.548755	53.670327	2.380190261	0.001383
ZDBF2	116.72334	277.64637	2.378670648	7.28E-12
MARS	3330.1732	7918.2712	2.377735578	4.55E-53
LIME1	69.099575	164.23671	2.376812137	6.23E-06
NFKBIB	277.14687	658.01008	2.37422878	1.27E-21
NCOA7	259.76289	615.98665	2.37134203	6.54E-08
RELA	1487.9118	3527.8639	2.371016841	1.61E-34

DNAH1	217.73425	516.20881	2.37082046	2.27E-18
BICC1	26.621872	62.932878	2.363953936	0.000613
LYST	1209.7108	2857.5147	2.362146953	3.33E-42
C16orf46	47.542636	112.30212	2.362134835	5.03E-06
GOLGA4	3993.9986	9430.7429	2.361228412	3.06E-53
SLC1A4	1585.2239	3740.5519	2.359636326	2.28E-45
C1orf9	6332.4196	14939.786	2.359253942	1.12E-55
ANKRD10	1313.666	3098.4213	2.358606581	8.30E-43
PRNP	9812.6369	23136.977	2.357875602	3.29E-57
NANS	627.69738	1478.5696	2.355545269	1.06E-32
ZNF140	540.42783	1271.8744	2.353458384	3.09E-30
TBC1D17	369.51878	867.59287	2.347899228	1.93E-15
CRABP2	35.03634	82.219073	2.346679845	0.000107
KIAA0907	1138.7276	2669.2158	2.344033747	2.09E-40
CBS	1721.3522	4034.6931	2.343909182	6.55E-21
MDM4	792.2066	1855.7723	2.342535786	2.06E-35
YIPF2	308.78997	723.319	2.342430308	2.60E-22
ANKRD11	2330.8109	5442.3728	2.334969733	3.43E-48
SLC3A2	5569.5664	13003.134	2.33467616	3.72E-54
MEG3	971.80449	2266.7185	2.332484066	7.49E-38
TULP3	1652.7019	3854.4368	2.332203273	1.77E-44
ATP8B2	1102.0944	2570.171	2.332078915	1.31E-39
SEC16A	3939.0576	9179.7793	2.33045065	4.99E-52
NDEL1	849.27393	1978.3355	2.329443323	4.44E-36
SLC35E1	2031.8888	4729.5849	2.327678988	1.76E-46
GCC2	642.72993	1494.6948	2.325540979	2.48E-18
WDR81	715.64054	1662.0922	2.322523769	4.07E-09
CDK11A	79.148315	183.7323	2.321367172	1.41E-06
FAM160B1	284.14545	658.42507	2.317211348	2.17E-20
CCDC28A	143.08325	331.28451	2.315326952	1.32E-10
LOC100507577	58.589341	135.62359	2.314816767	1.16E-06
DPH2	554.47471	1282.3933	2.312807607	1.65E-29
SH3RF3	170.83407	395.04286	2.312436062	1.14E-14
LOC100132247	21.656775	50.033766	2.310305479	0.002461
ARL1	1534.0325	3540.4214	2.307918104	2.28E-42
DHDDS	1048.6511	2417.9997	2.305819067	6.72E-38
COPA	9587.5983	22103.599	2.305436467	1.61E-54
MYBBP1A	997.45313	2298.6577	2.304527046	4.48E-31
SMCR8	1186.5946	2733.429	2.303591338	2.00E-39
RNASE4	460.17543	1060.0121	2.303495743	1.76E-26
LOC401588	161.72101	372.39803	2.302718911	6.63E-14
RNF39	27.058506	62.26835	2.30124864	0.000791
ARID3B	37.687287	86.693215	2.300330448	0.000894
LOX	37.19452	85.46903	2.297893078	0.000317
TRPV1	81.836684	187.90048	2.296042221	1.92E-08
C7orf41	839.12549	1926.3324	2.295642781	1.23E-34
FBLL1	49.470003	113.42974	2.292899338	3.61E-05

C17orf56	187.85011	430.55461	2.292011441	2.82E-15
UCP3	28.193729	64.567894	2.290150892	0.000685
NEDD4	914.88684	2094.089	2.288904922	2.12E-35
GORASP2	2381.7781	5449.4767	2.287986694	4.87E-46
TMEM151A	155.31503	355.20994	2.287028718	2.26E-13
MIB2	277.59594	634.35427	2.285171297	1.68E-05
WDR74	349.75208	798.45427	2.282914969	2.74E-22
GZF1	1468.4883	3351.6266	2.282365199	6.66E-41
RAB33B	403.33891	920.09958	2.281207107	5.20E-24
WIPF3	21.581931	49.216259	2.280438135	0.003286
ARHGEF2	3968.9604	9044.506	2.278809815	1.87E-49
ZNF740	743.18566	1693.3918	2.278558191	1.85E-32
YIPF5	1309.2685	2982.9215	2.27831146	2.12E-39
APOL6	1026.907	2339.2884	2.27799433	2.05E-36
RNF145	2052.4542	4673.4624	2.277011784	5.49E-44
DUSP1	115.01422	261.86383	2.276795264	1.41E-10
ZER1	880.78593	2003.6945	2.274893868	2.36E-26
UBE4A	2571.6992	5848.6158	2.274222365	7.37E-46
C12orf23	2456.498	5574.8036	2.26941103	2.14E-35
ARFGEF2	2518.5801	5714.3614	2.26888211	1.82E-45
HSPA9	9404.9381	21331.27	2.268092566	2.69E-52
PDXDC1	2087.085	4731.1354	2.266862806	8.68E-44
PYCR1	1205.6688	2732.6755	2.266522467	3.88E-15
CCNL1	1092.4387	2474.4209	2.265043231	1.56E-36
SLC30A5	1727.3716	3908.9212	2.262930076	5.65E-41
TBRG1	1018.4052	2303.1284	2.261505024	1.10E-35
SNORA70	34.50615	77.885796	2.257156923	0.000266
ZNF596	255.82075	577.37792	2.256962839	8.21E-18
KCNAB1	40.569048	91.558114	2.256846506	8.41E-05
ZXDC	1527.5266	3445.0813	2.255333186	2.61E-40
ENTPD7	172.90497	389.83981	2.254647775	1.06E-13
SEC23IP	1229.64	2772.2834	2.254548816	1.17E-37
ANG	102.98198	231.90954	2.251942898	1.34E-09
PPP1R15B	2267.5999	5101.9431	2.249930907	1.47E-43
C1orf52	463.54996	1042.4375	2.248813612	5.01E-25
C1orf55	1291.4416	2902.4828	2.247475026	1.99E-22
SLC6A6	379.3617	851.37562	2.244231858	2.49E-22
SRPR	3745.775	8406.1774	2.244175739	4.41E-47
ERN1	192.7965	432.60046	2.243819046	1.14E-14
ATF5	858.10632	1920.94	2.238580403	8.07E-33
CATSPERG	24.669513	55.184551	2.236953399	0.002192
KCNH2	86.552257	193.53443	2.236041447	0.002311
IFITM10	57.279438	127.96386	2.234027945	4.38E-06
ORAOV1	249.22766	556.40029	2.232498163	5.05E-17
SUPV3L1	430.27887	960.19415	2.231562435	1.22E-23
GOT1	1105.9181	2466.612	2.230374912	1.97E-35
TTBK1	306.28872	683.09948	2.230246961	1.33E-19

SEC23B	3771.3241	8405.0657	2.228677658	2.28E-46
NME7	428.75686	955.4542	2.228428946	1.59E-23
MED8	706.47148	1573.8934	2.227822957	9.70E-30
ARHGAP39	272.0071	605.47949	2.22596946	6.82E-11
SLC25A34	47.311823	105.29481	2.225549564	2.65E-05
MCEE	149.50166	332.65372	2.225083762	4.95E-12
MEF2D	998.33268	2219.4069	2.223113513	3.58E-34
CREBZF	1560.6669	3465.7374	2.220677174	1.02E-16
DDX51	654.23185	1452.6547	2.220397465	9.19E-29
ELP2	1216.8405	2701.8358	2.220369781	3.54E-36
JUNB	334.52602	742.01715	2.218114928	4.22E-05
RBM39	4580.7401	10160.324	2.218052925	9.02E-47
LOC100128542	31.62439	70.105281	2.216810538	0.000665
ENO3	62.16969	137.70162	2.214931791	2.84E-06
KLHL24	1473.1103	3258.6916	2.212116514	1.21E-21
ZNF526	272.77438	603.30074	2.211720687	7.51E-18
ZNF561	743.77198	1641.5659	2.207082138	5.46E-30
ESCO1	1080.2256	2379.5965	2.202869916	4.64E-34
PSAT1	3192.7223	7031.8999	2.202477754	5.53E-44
LY6G5B	68.120321	150.02481	2.202350302	1.31E-06
SPATA2	477.50956	1050.8742	2.200739562	2.90E-24
NUS1	512.85156	1127.9065	2.19928449	7.41E-25
RALA	3594.421	7902.2596	2.198479167	1.82E-44
HSPA13	5664.858	12449.671	2.197702282	1.12E-46
MYADM	1518.9561	3336.9952	2.196900304	1.91E-19
CCDC66	279.69812	614.31529	2.196351201	4.84E-14
LOC284408	42.159616	92.585017	2.196059289	0.000106
LOC645513	38.198766	83.886276	2.196046765	0.000199
XPNPEP3	710.42605	1559.8867	2.195705975	8.02E-29
TAF13	617.16216	1354.2264	2.194279675	5.45E-27
LOC401097	25.068725	55.007343	2.194261692	0.00274
TRIM69	53.624244	117.50932	2.191346805	1.79E-05
NOL6	1071.0813	2345.8243	2.190145908	1.20E-33
TRPM8	265.6511	581.66689	2.189589597	8.01E-14
C12orf44	819.78901	1793.0083	2.18715828	2.02E-30
C1orf63	402.59033	879.90429	2.185607089	7.00E-21
SCD	42297.523	92223.925	2.180362283	7.56E-50
MIR3064	91.804299	199.92567	2.177737562	4.92E-08
NPIP	25.52407	55.48255	2.173734397	0.002946
FNBP4	1517.5029	3297.3883	2.172904034	1.39E-36
KLRAP1	89.66483	194.79911	2.172525326	9.39E-08
NOXO1	43.219995	93.889845	2.172370562	0.00012
FAM160A2	328.63793	713.30331	2.170483832	1.02E-18
MVD	1325.5482	2873.3249	2.167650303	1.22E-08
FGF2	781.95204	1694.8177	2.167419049	6.02E-29
GOSR1	1523.5097	3301.7741	2.167215697	2.95E-36
LENG8	1414.8763	3064.1375	2.165657496	1.03E-35

ZNF785	156.0199	337.76816	2.1649043	6.07E-11
KLF9	82.878352	179.29035	2.163295245	2.22E-07
MED10	920.67523	1991.5246	2.1631131	9.19E-31
ALG2	1081.0365	2338.3096	2.16302563	1.26E-32
KDELR3	1012.6105	2189.211	2.161947743	6.32E-32
ZNF667	344.53746	744.30078	2.160289818	4.57E-19
TMEM86B	70.353345	151.88133	2.158836002	1.71E-06
SOX7	27.607406	59.594317	2.158635117	0.002231
UBN2	772.78285	1667.9926	2.158423445	1.68E-28
GBP5	66.355073	143.19471	2.158006944	3.36E-06
ARMCX4	80.738883	174.20809	2.157672784	4.30E-07
EPRS	7031.5243	15170.568	2.157507701	1.74E-45
HYAL3	72.343126	156.06959	2.157352053	1.23E-06
SLC33A1	681.22179	1469.6213	2.157331628	4.51E-27
CCDC30	25.655048	55.317456	2.156201654	0.003326
PLEKHH2	554.3313	1193.7629	2.153518914	1.60E-24
SEPT7P2	158.30906	340.85718	2.153112247	5.11E-09
NOP58	1427.1895	3072.5629	2.152876585	6.72E-35
SH3BP5L	957.3707	2059.6685	2.15138037	6.77E-31
ZRSR2	109.74975	235.89256	2.149367641	1.63E-06
MAX	1106.0552	2376.5882	2.148706601	2.64E-32
ZNF767	236.55296	508.06592	2.147789265	6.57E-15
MIA3	3097.9304	6646.4744	2.145456313	1.61E-38
LOC220594	71.663248	153.40767	2.140674285	2.32E-06
ERLEC1	3324.8774	7105.1787	2.136974616	5.55E-41
KIF1A	3608.4796	7710.1978	2.13668876	8.19E-21
TRIM4	1010.2778	2158.0367	2.136082497	9.76E-31
C20orf26	27.607406	58.897601	2.133398551	0.00257
MZF1	117.77743	251.24004	2.133176347	3.11E-07
C8orf73	94.492669	201.47208	2.132145119	7.69E-08
SEC31B	120.28497	256.42716	2.131830393	3.85E-09
MICALL1	1018.7231	2171.3182	2.131411549	1.33E-30
GATAD1	2763.8533	5886.2862	2.12973898	2.28E-39
ZSWIM4	123.65322	262.87862	2.12593428	1.95E-09
SAR1B	2172.6519	4614.9517	2.124110057	1.53E-22
GPC4	173.07337	367.48087	2.123266354	1.00E-11
MIS12	1005.9301	2135.5611	2.122971566	3.73E-30
ING4	511.60407	1085.5203	2.121797669	1.55E-22
CHIC2	142.34096	301.58392	2.118743008	2.91E-10
PUS1	231.07011	489.5287	2.118528886	2.66E-14
TPD52L2	2191.2771	4639.4081	2.117216537	2.58E-37
CCNK	1154.3026	2443.7536	2.117082297	1.44E-31
CDK13	2217.4623	4694.4438	2.117034306	2.43E-37
BCL10	306.5071	648.84825	2.116911012	5.68E-17
SFRP4	70.25979	148.51059	2.113735117	3.94E-06
TARS	3013.2183	6368.828	2.113629834	2.66E-33
PGAM2	172.25624	363.98517	2.113044963	1.12E-11

NRBF2	602.1546	1272.1804	2.112713836	3.25E-24
YIPF4	742.39352	1568.3477	2.112555734	1.35E-26
ZNF263	653.88262	1380.6043	2.111394748	4.26E-25
RCN1	1228.8852	2592.9166	2.109974701	8.51E-32
CTH	316.18777	667.02309	2.109579062	5.35E-17
DNTTIP1	910.0963	1919.0392	2.108611121	9.96E-29
GPT2	1789.5287	3772.2537	2.107959281	2.08E-35
ZNF814	249.58945	526.04728	2.107650318	1.10E-14
DIS3	1892.6607	3988.5265	2.107364779	1.80E-35
ZNF555	345.12379	726.7382	2.105731996	8.08E-18
SNHG8	253.56273	533.7835	2.105133885	7.35E-15
LOC155060	104.87821	220.6939	2.104287516	4.61E-08
GLTSCR2	549.37235	1155.8146	2.103881955	2.84E-14
TPRG1L	366.08812	769.9256	2.103115474	7.45E-18
GPR173	345.11751	725.77567	2.102981331	7.66E-18
TRIM39	155.33374	326.1981	2.099982231	1.09E-10
CCDC149	378.53214	794.8499	2.099821444	9.72E-19
GADD45A	994.38439	2087.9798	2.099771344	3.33E-29
C14orf79	208.8083	438.41162	2.099589024	4.84E-13
TBL2	2672.7537	5610.8622	2.099281458	5.79E-38
KIAA1147	1366.473	2868.0824	2.098894322	2.39E-32
GGT1	29.160553	61.197145	2.098627726	0.002702
ENDOV	318.68274	668.12233	2.096512412	4.97E-17
COG6	1518.5946	3181.172	2.094813208	4.55E-33
SH3BGR	207.88518	434.9886	2.092446449	1.03E-12
FBXO8	532.96147	1114.8222	2.091750092	1.97E-20
METTL21D	128.60589	268.92756	2.091098348	1.05E-06
ABTB1	125.79269	262.75783	2.088816366	4.18E-09
FADS3	609.32158	1270.3318	2.084829807	1.66E-23
COPB1	5339.8753	11115.303	2.081566028	1.78E-40
SLC7A1	4212.9799	8765.0557	2.080488383	1.19E-39
EFCAB6	44.623453	92.685735	2.07706324	0.000309
ACAD11	124.88828	258.89976	2.073050894	7.55E-09
ELL3	106.31909	220.25088	2.071602463	7.73E-08
ZNF70	221.46428	458.66034	2.071035238	4.89E-13
ZNF829	205.44005	425.40383	2.070695661	2.42E-12
COBL	115.5257	239.19478	2.070489746	2.54E-08
ZNF529	546.29733	1131.0678	2.070425335	9.46E-22
TMEM47	1713.6678	3547.0982	2.06988666	4.04E-33
PGD	4196.0764	8680.3198	2.068675349	5.82E-39
THUMPD1	1021.8358	2112.9927	2.067839758	2.79E-28
LARP1B	587.35915	1214.1165	2.06707691	2.17E-22
RSL24D1	1429.7407	2946.8664	2.061119378	1.04E-17
C2orf18	1580.2962	3256.2786	2.060549445	2.70E-32
NOC4L	248.34183	511.34391	2.059032536	1.96E-05
MON2	2026.8864	4173.2171	2.058929937	5.55E-34
WDR52	156.60623	322.35215	2.058361006	3.89E-10

CTAGE5	417.31722	858.43519	2.057032729	1.16E-18
PRRC1	2057.7811	4231.8088	2.056491243	6.34E-34
MYSM1	986.58751	2024.9224	2.052450835	2.80E-15
ANKHD1	129.1298	264.6064	2.049150571	1.48E-08
LOC388796	232.13677	475.67122	2.049098981	5.91E-13
GAB2	991.88313	2032.1792	2.04880914	3.16E-27
NFX1	1696.3274	3473.014	2.047372463	4.46E-32
BNIP1	187.4946	383.79503	2.046965729	3.81E-11
TMEM50B	1685.131	3447.8402	2.046036866	6.43E-32
TRIB1	252.67703	516.86122	2.045540976	1.12E-13
TSN	3499.972	7158.2772	2.045238435	1.05E-36
ABCC1	442.37967	903.70477	2.04282619	5.89E-19
ZCCHC8	492.31758	1005.2907	2.041955699	7.53E-20
SGMS2	268.02139	546.94046	2.040659772	5.47E-11
KLHDC10	5194.1098	10597.494	2.0402908	2.02E-38
MTO1	343.83259	701.43941	2.040060839	2.74E-16
PTHLH	49.22676	100.42195	2.039986968	0.000224
CLIP4	573.07517	1168.6777	2.039309596	2.47E-21
CSAD	172.58688	351.83123	2.038574561	1.15E-06
HSD17B7	262.1893	534.44007	2.038374804	6.94E-10
C7orf23	121.38278	247.4062	2.038231498	2.98E-08
LOC100506548	683.44238	1392.553	2.03755731	3.68E-23
YIF1A	814.01293	1656.9819	2.035571923	1.80E-14
INSIG2	868.81623	1768.2495	2.035239911	2.12E-25
KRT10	639.59249	1301.4943	2.034880583	2.00E-16
RNF113A	241.56791	490.40262	2.030081801	4.86E-13
KIAA1370	468.38408	950.56127	2.029448299	5.69E-19
GRPEL2	628.07788	1273.8195	2.028123517	6.05E-22
MON1B	901.03309	1826.7522	2.027397407	1.03E-25
GOLGA8B	267.89041	543.0059	2.026970296	4.37E-10
BSDC1	1313.5662	2662.3252	2.026791797	4.55E-29
MTHFR	759.67767	1536.7989	2.022961754	8.52E-24
YKT6	7313.1872	14791.21	2.022539487	1.13E-38
POLR3D	829.13916	1673.7432	2.018651726	1.62E-24
SIKE1	1850.5446	3734.5601	2.018087027	3.15E-25
EIF4B	2369.5775	4775.5955	2.015378466	3.36E-33
PLA2G6	201.12356	405.19941	2.014678941	1.84E-05
UBFD1	2725.3302	5486.7284	2.013234337	6.71E-34
CD44	9874.9686	19865.148	2.011666916	7.25E-39
LAMB2P1	38.710244	77.853608	2.01118876	0.001403
C3orf62	199.22119	400.6287	2.010974369	4.70E-09
WDR48	1171.5807	2353.2182	2.008583935	1.87E-27
FLJ45340	386.69708	776.51412	2.008068214	9.94E-17
SDHAP1	67.590131	135.62359	2.006559019	3.36E-05
AKAP9	3073.8471	6162.4547	2.004801957	4.25E-34
GIGYF1	1064.9684	2134.2279	2.004029268	1.85E-26
CDC26	70.241079	140.69788	2.0030712	2.75E-05

CTDP1	336.62191	674.07851	2.002479583	2.59E-08
SNIP1	340.42693	681.60948	2.002219654	2.34E-15
KDELR2	12709.412	25429.55	2.000843831	1.12E-38
RAP1GAP2	153.79931	307.65293	2.000353113	2.94E-09
GALNTL1	171.988	85.976424	0.499897806	3.87E-06
C12orf75	341.6557	170.76881	0.499827195	7.23E-10
SLC19A1	442.36711	221.04416	0.499684895	0.001159
CPNE2	9263.7192	4628.8487	0.499674973	6.21E-36
SNRK	3176.692	1586.7641	0.499502037	9.27E-30
ZNF788	523.19968	261.22353	0.499280761	3.08E-13
FAM72D	66.716863	33.300813	0.499136375	0.002922
CDCA3	967.50043	482.85573	0.49907547	9.88E-19
RPL22L1	745.61835	372.09207	0.499038236	3.55E-11
MCM3	3468.4285	1730.6798	0.498980957	1.43E-30
PCYOX1L	1035.7331	516.79685	0.498967178	1.87E-19
MTPP	474.71521	236.81874	0.498864872	1.99E-12
ENDOD1	10123.436	5041.966	0.498048902	8.03E-37
ARHGAP29	2589.4451	1289.2878	0.497901195	3.12E-28
GMNN	841.06542	418.66233	0.497776178	2.66E-11
RAD51AP1	1314.7577	653.93466	0.497380372	9.22E-12
NCAPG2	4118.0011	2047.6838	0.497251888	4.14E-28
ABHD11	897.83325	446.28073	0.497064167	4.50E-18
CTSL2	443.04712	220.20658	0.497027454	6.35E-12
SYTL5	295.99058	147.08497	0.496924477	3.88E-09
PBK	4890.0355	2429.7231	0.49687227	3.31E-23
HSPA8	40474.387	20090.308	0.496370908	2.52E-40
HAUS4	808.48663	401.28907	0.496345961	2.68E-17
COL23A1	3859.934	1915.8373	0.496339398	4.33E-08
GJA1	5658.5892	2805.0004	0.495706664	2.03E-34
C3orf70	1213.2663	601.25489	0.49556713	3.84E-21
ELOVL2	3197.2946	1584.0738	0.495441923	2.44E-30
PDE3B	311.24138	153.95937	0.494662273	1.59E-09
DCC	88.959961	43.944683	0.493982712	0.000507
GATSL3	219.32482	108.29107	0.493747443	1.70E-07
RBL1	1399.1392	690.22758	0.493323027	6.44E-23
GPR155	2881.2566	1420.6909	0.493080333	6.24E-30
CAMK2A	168.29539	82.903675	0.492608126	3.19E-06
C5orf39	106.01343	52.156103	0.491976374	0.000161
ANKRD32	484.20249	238.12357	0.491785104	5.37E-13
POLR3G	167.9773	82.605675	0.491766902	2.71E-06
CHST11	13849.063	6804.6978	0.491347151	3.51E-39
THSD1	660.55683	324.47448	0.491213577	9.81E-16
NCAPH	1718.4271	843.47812	0.49084312	2.55E-18
ASRGL1	729.36318	357.9082	0.490713286	1.15E-16
IDH2	3963.2656	1944.3902	0.490603056	1.15E-32
CHSY3	73.422216	35.98696	0.490137208	0.001377
GIN3	624.36028	305.80852	0.489794958	2.30E-15

RFC3	1468.557	718.06369	0.488958684	1.89E-15
ACCN2	668.77163	326.84256	0.488720729	3.78E-16
IFITM2	290.30191	141.76909	0.488350523	2.42E-09
GPER	191.655	93.591846	0.48833502	1.42E-05
PODXL	75143.468	36679.323	0.488123899	1.38E-42
KDR	336.52221	164.14811	0.48777793	2.86E-10
TMEM2	2625.81	1280.0737	0.487496692	5.43E-30
SORL1	11116.653	5417.7953	0.487358518	2.91E-39
TMEM177	220.78441	107.56216	0.487181882	8.87E-08
ANP32D	78.749102	38.362994	0.487154677	0.000857
NCAPG	2726.6464	1327.3611	0.48681087	4.94E-21
ST3GAL4	1311.0149	637.72121	0.486433216	4.28E-23
HIP1	16718.355	8130.8783	0.486344399	1.27E-40
NELL2	408.99631	198.91088	0.486339059	5.44E-12
S100B	10327.435	5016.7115	0.485765504	2.37E-39
FAM81A	695.91754	337.8488	0.485472464	9.91E-17
CLN6	1555.3649	753.93366	0.484731048	5.04E-25
KCNA2	1241.5786	601.79067	0.484698018	9.03E-23
S1PR5	136.61486	66.170721	0.484359608	1.44E-05
FKBP5	2072.7201	1003.7723	0.484277796	8.38E-28
ARHGAP20	908.27505	439.82928	0.48424679	1.93E-12
IKBKE	225.42514	108.98778	0.483476623	5.42E-08
CENPW	325.57534	157.38653	0.48341049	8.86E-06
C11orf82	1013.621	489.97172	0.483387485	1.13E-20
TNS3	5067.6242	2449.2225	0.483307834	8.23E-36
SERPINI1	1502.3021	725.64277	0.483020529	6.77E-22
KIF4A	2658.8316	1283.0014	0.482543323	8.09E-31
PTK2B	1597.8238	770.7431	0.482370533	1.76E-25
SHF	598.92348	288.31032	0.481380887	2.19E-15
GDF11	1455.5141	700.37617	0.481188176	8.70E-25
XRCC3	780.24907	375.37802	0.481100245	1.23E-07
ADAMTS4	162.65041	78.228097	0.480958495	2.48E-06
FGD4	1419.1742	682.0082	0.48056692	1.04E-24
XKR5	89.053516	42.760646	0.480167969	0.00174
TUBA1B	39168.28	18806.013	0.480133755	8.78E-44
ANLN	7500.1706	3600.3175	0.480031417	4.95E-39
HAUS1	841.84513	404.00741	0.479907046	4.18E-09
NETO2	2792.2342	1339.3257	0.479660957	8.68E-32
IQCD	65.76875	31.532892	0.479450982	0.001788
SCARA3	5204.6382	2494.7174	0.479325794	8.78E-35
CKLF	189.57794	90.639888	0.478114109	3.65E-07
ZNF30	187.70043	89.733776	0.478069115	4.07E-07
CDK2	3024.5518	1445.2366	0.477834966	1.05E-32
CENPI	457.34365	218.53142	0.477827594	0.000318
CFI	2849.2704	1361.2901	0.477767962	2.23E-32
TMCO7	1000.7404	478.09951	0.477745797	6.26E-21
CDH24	660.82494	315.52205	0.477466919	1.13E-16

RRM1	5951.6668	2840.7174	0.477297777	3.97E-38
CTPS	1634.981	780.07419	0.477115138	1.43E-26
CLMP	128.46863	61.152843	0.476013818	1.67E-05
CCDC34	1247.2423	593.56714	0.475903647	9.12E-24
MCM2	4514.946	2146.0516	0.475321663	2.20E-36
TMEM178	1587.7502	753.06389	0.474296212	1.23E-26
ST8SIA5	1846.4277	874.90233	0.473835145	2.97E-28
CCDC80	10775.204	5102.7319	0.473562461	5.29E-42
TEK	363.55572	171.97292	0.473030439	1.73E-11
TCF19	2073.2501	980.6765	0.473014078	8.95E-30
SPAG5	3969.0359	1876.9995	0.472910677	5.45E-25
ADA	144.89835	68.458151	0.472456377	4.62E-06
GIN51	1850.9626	874.08482	0.472232579	1.36E-28
MEF2C	448.96661	211.97509	0.472139984	2.70E-07
MGAT5B	1156.941	545.75227	0.471720059	2.49E-06
CCNF	1253.7854	590.50235	0.470975629	3.44E-24
ILDR2	2753.3554	1296.6578	0.470937325	3.52E-33
CHAF1A	1439.1155	677.28832	0.470628187	6.07E-26
BEST3	631.62081	297.0897	0.470360849	5.24E-17
TRAF4	5577.3387	2622.5123	0.470208548	4.35E-39
CDCA2	1512.7749	711.07645	0.470047747	9.91E-27
PDGFD	405.44095	190.37723	0.469556004	1.77E-10
GSS	2618.855	1229.3834	0.469435443	1.29E-32
LRRC4	167.06661	78.361003	0.469040486	8.63E-07
MAP2K6	305.67753	143.33973	0.468924643	7.00E-07
HEPACAM	863.18356	404.74843	0.46890192	6.00E-11
GSTT1	864.02568	405.09073	0.468841073	2.72E-20
MMS22L	597.86938	280.26399	0.46877127	2.71E-16
CDKN2C	6304.7741	2955.0774	0.468704728	3.86E-40
SKA3	959.82211	449.28115	0.468087937	8.77E-22
COCH	78.730391	36.84877	0.468037424	0.000486
SMTN	409.60749	191.56923	0.467689759	7.31E-05
ZNF367	866.61435	405.05854	0.467403455	1.44E-20
TBC1D1	1396.8686	652.49692	0.46711403	5.08E-26
MKI67	11864.08	5539.1506	0.466884134	5.68E-44
C3orf58	3120.504	1455.5987	0.466462699	4.33E-35
TEAD2	982.77622	458.31804	0.466350351	5.61E-22
CEP72	498.12467	232.26396	0.466276756	1.14E-14
FAM198B	273.23601	127.24707	0.465703903	6.10E-10
WSCD1	16162.109	7503.4061	0.464259107	1.98E-45
RAD51	658.87271	305.7078	0.463986131	8.35E-18
FAM149A	123.01077	57.041076	0.463707997	1.50E-05
RPP25	56.23777	26.071994	0.463602923	0.003294
BK250D10.8	224.96979	104.28002	0.463528982	1.09E-08
SIPA1	522.08303	241.86881	0.463276514	6.03E-07
EMILIN3	103.62444	48.000034	0.463211529	6.96E-05
C1orf135	142.32225	65.872722	0.46284205	2.80E-06

SCN4B	950.65291	439.95007	0.46278727	4.58E-22
AIF1L	42160.571	19507.272	0.462689924	3.71E-48
ITGA11	308.2785	142.19999	0.461271202	8.92E-08
ANKRD45	582.63729	268.60533	0.461016371	1.04E-16
RAD54L	555.14215	255.80694	0.460795375	3.14E-16
SDC1	2129.9991	980.66819	0.460407792	4.59E-13
PDK4	300.69372	138.36615	0.46015643	1.77E-07
CDCA7	2141.5514	983.16536	0.459090246	2.36E-32
FAM123A	58.608052	26.813012	0.457497079	0.002016
PCDH12	127.37083	58.245187	0.457288276	8.61E-06
CHRNA5	197.79902	90.341889	0.456735781	4.71E-08
ID1	1867.791	851.07346	0.455657767	1.95E-05
SH2B3	3349.6094	1526.0501	0.455590476	1.48E-37
PREX1	14182.958	6459.9701	0.455474113	7.98E-29
NLGN3	5208.1814	2371.6225	0.45536481	1.49E-41
MCM8	2243.2672	1020.1228	0.454748688	1.58E-33
TBX2	1394.3048	633.7382	0.454519124	5.23E-09
CDC7	1690.6823	766.41814	0.453318839	2.17E-30
CX3CL1	550.3766	249.47212	0.453275296	6.97E-13
ABCG2	169.05639	76.625269	0.45325273	3.09E-07
RNASEH2A	1285.4597	580.92172	0.45191748	6.31E-27
SEMA3A	1325.4425	597.23588	0.450593598	1.54E-27
C12orf34	203.78079	91.811811	0.450542029	1.48E-05
FAM181B	1550.019	695.89787	0.44896085	1.18E-10
NOS2	5348.0834	2399.9619	0.44875177	3.48E-43
RAB34	3811.9178	1710.5477	0.448736761	3.96E-40
STEAP1B	83.583222	37.501184	0.448668802	0.001002
SPC24	364.21689	163.38701	0.448598126	6.96E-13
PDGFA	9293.8218	4164.0349	0.448043332	4.40E-47
CALB1	3236.2855	1449.3968	0.447858139	7.72E-39
MLF1IP	1550.113	694.19052	0.447832204	6.04E-16
ATAD2	5670.0601	2538.2073	0.447650857	4.82E-44
ADORA1	743.88425	332.88734	0.447498842	1.12E-20
SKP2	2601.3089	1162.8787	0.44703597	1.14E-36
PIP5K1B	51.085563	22.834151	0.446978553	0.003134
DGKB	148.91534	66.513022	0.446649913	8.05E-07
LOC647946	197.51835	88.219552	0.446639776	2.26E-08
SLC6A11	878.59045	391.68422	0.445809786	7.93E-23
MCART6	136.00983	60.633334	0.44580112	2.10E-06
SEZ6	2645.5702	1179.2811	0.445756864	1.81E-16
CENPP	195.79681	87.257025	0.445650911	9.49E-05
CD82	536.9846	239.04976	0.445170596	7.33E-17
CPM	432.66786	192.57606	0.445089822	9.02E-15
PSD	128.23782	56.996774	0.444461512	4.14E-06
MECOM	431.37667	191.43632	0.443779972	1.04E-14
LOC100128191	379.09975	168.22768	0.443755729	1.47E-13
KIF21B	549.97124	243.91465	0.443504385	2.01E-17

HYAL2	1467.7521	650.88994	0.443460393	1.49E-29
LOC728819	118.35133	52.4098	0.442832385	8.31E-06
GDPD2	279.47973	123.67489	0.442518276	7.43E-11
FAH	474.44069	209.2969	0.441144493	7.84E-16
PRIM1	589.62331	259.99519	0.440951347	2.45E-18
BRIP1	988.66457	435.16997	0.440159362	3.23E-15
TIMELESS	4486.1849	1974.566	0.440143702	1.61E-43
UBE2T	2063.3388	907.74005	0.439937475	7.09E-35
POLA2	1241.329	546.0745	0.439911158	4.74E-28
FLRT1	636.10544	279.34576	0.439150095	6.35E-05
SPC25	924.36784	405.76737	0.438967424	2.33E-24
ITPRIPL1	369.31924	161.96139	0.43854036	1.28E-13
MNS1	545.29309	238.90889	0.438129322	8.08E-18
CD226	53.131477	23.265056	0.437877079	0.002182
GRIN2A	1581.8805	691.58882	0.437194091	1.41E-22
MCM5	2383.7614	1041.6317	0.436969789	2.05E-11
DCBLD1	290.97563	126.53824	0.434875741	1.46E-06
MT3	5407.9268	2350.5729	0.434653246	7.84E-47
PLEKHA6	926.4012	402.27168	0.434230524	1.16E-24
TMEM35	247.64952	107.25205	0.433079979	2.03E-10
SPON1	227.85155	98.641913	0.432921841	8.54E-10
KIRREL2	404.19333	174.96918	0.43288488	5.37E-12
CENPH	548.91714	237.38255	0.432456077	7.52E-17
EPHB2	1894.1949	819.02902	0.432389003	1.09E-34
OLFML3	98.946286	42.77276	0.432282619	2.49E-05
SHD	71.831648	31.045571	0.432199068	0.000348
FAM40B	1139.42	492.30761	0.432068601	6.72E-27
CPNE5	1528.1442	659.64925	0.431666902	4.08E-32
ZMAT4	732.80012	316.26306	0.43158162	6.57E-22
MYBL2	4216.5165	1818.9796	0.43139392	1.08E-44
FANCI	4837.8149	2084.9109	0.430961281	9.45E-19
MCM4	11082.309	4774.4679	0.430818858	1.71E-52
C15orf59	1096.6925	471.03994	0.42950958	5.14E-10
LCTL	393.82036	169.10161	0.429387678	7.73E-15
CORO1A	153.07573	65.639099	0.428801478	0.001128
TYMS	1436.1963	615.63604	0.428657304	1.70E-31
SHMT1	755.57969	323.64486	0.428339812	1.41E-22
OAS3	4013.3285	1716.7212	0.427754969	5.60E-45
C4orf19	907.22082	387.08929	0.426675933	1.61E-25
LAMA2	954.7946	407.33386	0.426619357	5.15E-26
ESCO2	1463.3923	623.70659	0.426206	1.40E-12
ERCC6L	710.06426	302.30486	0.425742964	3.90E-22
SLC35G1	84.244388	35.854054	0.425595758	7.01E-05
LRR1	769.0778	326.95124	0.425121145	2.27E-20
FAM59B	1443.2697	613.54589	0.425108263	4.70E-32
DPF1	456.52024	193.90096	0.42473684	1.42E-16
RGR	52.65742	22.358944	0.424611463	0.001605

TMEM106C	5415.2186	2298.7425	0.424496717	6.27E-49
THY1	13811.537	5858.6228	0.424183253	2.52E-55
FANCD2	2080.2238	882.1353	0.424057875	4.89E-32
UNC5D	2538.5155	1075.416	0.42363974	1.49E-40
A4GALT	132.03027	55.824851	0.422818585	9.57E-07
POLE2	391.84929	165.50935	0.422380123	3.33E-15
PSD4	195.3726	82.517072	0.422357437	3.85E-09
TP73	317.24815	133.96434	0.422269906	6.01E-13
CCR1	83.770332	35.334546	0.421802622	6.46E-05
LOC100505666	63.192647	26.635805	0.42150165	0.000555
ABCD2	618.97726	260.82482	0.42138029	1.13E-20
MYH7	261.8088	109.88178	0.419702396	2.01E-11
CTSC	1083.3693	453.78748	0.418866827	6.41E-29
KLHDC8A	10942.85	4572.6493	0.417866413	7.06E-56
DSCC1	847.4464	353.69987	0.417371377	1.18E-21
SLC6A1	1845.9038	768.3913	0.416268339	2.82E-37
CCDC74B	73.85885	30.614666	0.41450234	0.000155
ZNF423	174.63895	72.360523	0.414343555	5.91E-05
CDC25A	638.10163	264.34058	0.414260944	7.40E-22
MASP1	188.81694	78.139493	0.413837309	3.95E-09
HMGNS	60.672677	25.089393	0.413520459	0.000454
VSNL1	847.36528	350.30489	0.413404826	6.24E-26
MOXD1	84.019856	34.682131	0.412784943	0.002281
DHFR	830.56133	342.61298	0.412507747	8.64E-26
EYA2	1456.8927	599.49909	0.411491591	2.07E-34
TAGLN3	303.75631	124.9676	0.411407429	4.29E-13
CHAF1B	1216.0046	500.10819	0.411271617	9.36E-32
FREM2	10298.292	4214.3787	0.40923086	1.65E-45
FRAS1	2500.5347	1022.5189	0.408920106	1.35E-34
GCNT2	191.26206	78.195909	0.40884171	1.61E-09
LOC644936	70.97709	28.979651	0.408295841	0.000241
RPS6KA1	236.32215	96.430973	0.408048809	4.56E-11
NTRK1	71.850359	29.27765	0.407480915	0.000139
CHDH	204.94729	83.435297	0.407106135	1.66E-08
SLC25A10	220.92781	89.480079	0.405019527	1.08E-05
KIAA1199	2036.511	823.85377	0.404541784	4.70E-41
C1orf53	62.3568	25.210185	0.404289261	0.000368
GPR123	816.81985	329.92327	0.403911913	3.62E-16
ORC1	523.11855	211.05686	0.403458948	4.30E-20
KCNJ16	4495.3168	1813.1162	0.403334463	2.50E-52
NMB	677.98452	273.4017	0.403256552	1.19E-23
AMACR	64.858059	26.071994	0.401985422	0.000279
EPHA2	8044.4208	3223.175	0.400672105	4.83E-32
SCN3A	345.65398	138.47483	0.400616912	3.49E-15
CHRNA3	49.77566	19.938609	0.40056945	0.001208
NEGR1	80.757594	32.261796	0.399489313	3.87E-05
METTL7A	3670.5377	1462.6583	0.398486116	4.71E-51

MEGF10	1555.4398	619.03102	0.397978139	7.39E-38
CACNG8	1282.4594	510.28897	0.397898728	1.13E-34
ADAMTS5	144.51785	57.439793	0.397458111	4.48E-08
IGDCC3	463.86176	184.1632	0.397021739	1.37E-14
VCAN	2235.3641	885.51401	0.396138608	3.72E-44
RAMP1	1675.3563	663.63192	0.39611391	1.63E-05
EPHB3	2936.4523	1161.2675	0.395466165	8.44E-40
ZWINT	4774.6471	1885.3923	0.39487573	2.39E-29
PCDH9	2204.4694	869.49785	0.394425001	3.38E-44
CDC45	1103.2671	433.80457	0.393199932	8.81E-33
SLC12A8	115.43214	45.281699	0.392279807	6.80E-07
C16orf59	282.28665	110.6671	0.392038025	1.62E-13
NRGN	129.2982	50.686181	0.392009962	4.75E-07
SORD	336.6469	131.7091	0.391238121	2.87E-15
SLC18A1	614.34281	239.82296	0.39037319	2.20E-23
WDR76	1787.5328	696.83236	0.38982913	6.23E-42
MAOB	215.89415	84.107785	0.389578799	4.12E-11
GALNT12	289.68444	112.82162	0.389463874	2.75E-13
SLC8A1	324.25916	125.88583	0.388225985	3.42E-15
CHST7	1080.0195	418.31587	0.387322503	2.86E-10
KIAA0101	2132.9562	823.81363	0.386230908	1.31E-13
PIK3R3	3839.2884	1481.7188	0.385935797	1.03E-54
IFI30	255.55251	98.376101	0.384954547	7.75E-13
SLC38A3	757.78772	291.51597	0.384693448	2.22E-27
FGFR2	833.83602	320.66072	0.384560881	4.79E-29
RTTN	3883.3381	1490.4297	0.383801165	1.58E-55
PCDH7	502.60943	192.56395	0.383128398	8.62E-18
E2F1	1790.8199	685.94276	0.383032789	4.23E-43
HELLS	559.67062	213.85169	0.382102756	6.85E-23
TEX15	270.47894	103.18458	0.381488421	1.27E-13
GIN52	1265.063	477.72502	0.377629432	1.37E-37
EXO1	1231.6172	464.77365	0.377368583	2.97E-37
C2orf80	208.75217	78.659002	0.376805678	2.16E-11
E2F8	532.99889	200.5459	0.3762595	7.13E-23
GSTT2	46.669367	17.550461	0.376059548	0.001162
APOBEC3B	242.72813	90.950001	0.374699059	5.38E-13
CRISPLD1	3569.2523	1335.6127	0.374199572	5.42E-57
GLT25D2	15785.885	5904.3717	0.374028547	3.60E-72
ZBTB7C	371.59597	138.35404	0.372323835	4.68E-18
TFAP2C	284.0519	105.35122	0.370887234	7.79E-15
DTL	2600.7414	950.43632	0.365448217	1.08E-29
ENHO	187.58816	68.33736	0.364294632	3.73E-11
ASF1B	1424.9501	518.24669	0.363694634	1.29E-42
RPH3A	3468.4535	1258.1214	0.362732685	1.26E-59
MND1	383.14787	138.95004	0.362653808	4.57E-19
NDP	628.29614	227.70121	0.362410649	6.47E-27
SLC43A3	1305.6382	472.73137	0.362069195	4.74E-41

TK1	820.61858	296.81974	0.361702432	1.22E-31
SEMA7A	164.16614	59.372807	0.361662941	5.10E-10
PLA2G5	369.2444	132.71593	0.359425714	8.87E-19
PPP1R1B	2392.0077	856.92096	0.358243394	4.91E-54
CCNE2	1351.9709	480.42328	0.355350314	6.68E-22
CSRNP3	384.51391	134.72959	0.350389381	2.78E-20
ZNF467	49.850504	17.385368	0.348750085	0.000307
B3GALT2	97.374429	33.864624	0.347777378	4.42E-07
METTL7B	1401.6716	484.00343	0.345304445	9.16E-46
AKAP5	301.41102	104.01421	0.345090916	3.00E-17
FGL2	121.21438	41.689441	0.343931489	1.66E-08
DIO2	37.026121	12.70979	0.343265508	0.001809
GPR37L1	361.17916	123.81991	0.342821301	2.98E-09
PPP1R1C	310.18728	105.73783	0.34088382	1.35E-14
FLRT3	1343.9681	457.134	0.340137544	1.51E-39
GRM3	42.084772	14.268316	0.3390375	0.00074
MAB21L2	32.135868	10.853265	0.337730566	0.003227
TLCD1	1259.2371	424.25613	0.336915218	3.61E-45
CDH10	399.42791	133.67846	0.334674809	4.16E-22
CENPM	571.70901	190.11142	0.332531796	3.73E-14
CHAC2	218.51396	72.658522	0.332512037	3.72E-14
BTBD17	127.4581	42.265365	0.331602026	0.001298
PKDCC	1721.2152	569.80264	0.331046725	1.03E-53
POU3F1	96.064526	31.742287	0.33042673	2.23E-07
E2F2	486.9657	159.99204	0.328548883	7.19E-26
LOC100507341	33.670304	10.986171	0.326286651	0.001819
FAM111B	978.77808	317.80948	0.324700238	3.22E-36
FST	698.71817	225.23657	0.322356826	2.82E-34
C3orf36	69.823156	22.226039	0.318319022	5.52E-06
MCM10	2720.4711	864.28269	0.317695964	1.80E-68
SLC7A8	498.00612	157.28582	0.315831088	7.48E-28
C1orf106	112.73749	35.113036	0.311458371	8.03E-07
CCNE1	380.02915	118.23822	0.311129345	1.78E-23
CLSPN	1254.7086	387.53611	0.30886543	1.00E-50
PTCHD2	553.2895	169.9513	0.307165243	3.80E-11
MPPED1	75.168753	23.05566	0.306718676	1.01E-06
RRM2	6721.9859	2023.7664	0.30106674	1.48E-93
RIBC2	76.509798	22.834151	0.298447411	1.12E-06
RANBP3L	891.10303	258.32799	0.289896882	1.02E-43
MRAP2	51.634464	14.876428	0.288110445	2.81E-05
SLCO2A1	2474.1999	708.36608	0.286301068	1.54E-76
UHRF1	1369.3858	382.25658	0.279144553	9.07E-15
FAM5C	109.00746	30.228063	0.277302712	7.36E-10
NXPH2	49.869215	13.49511	0.270610033	8.38E-05
MYB	37.288075	9.3833429	0.251644605	0.000206
TNFRSF11A	22.074698	5.4487835	0.246833879	0.003319
SLC26A9	28.062752	6.4878007	0.231189042	0.000536

SLITRK1	352.54644	79.875227	0.226566539	3.81E-31
GIMAP2	24.61338	5.4487835	0.221374858	0.001044
LGR6	69.879289	14.268316	0.204185191	8.06E-09
SLC24A4	20.521552	3.9788614	0.193886962	0.001548
CACNA1E	17.583659	2.4203355	0.137646869	0.001177