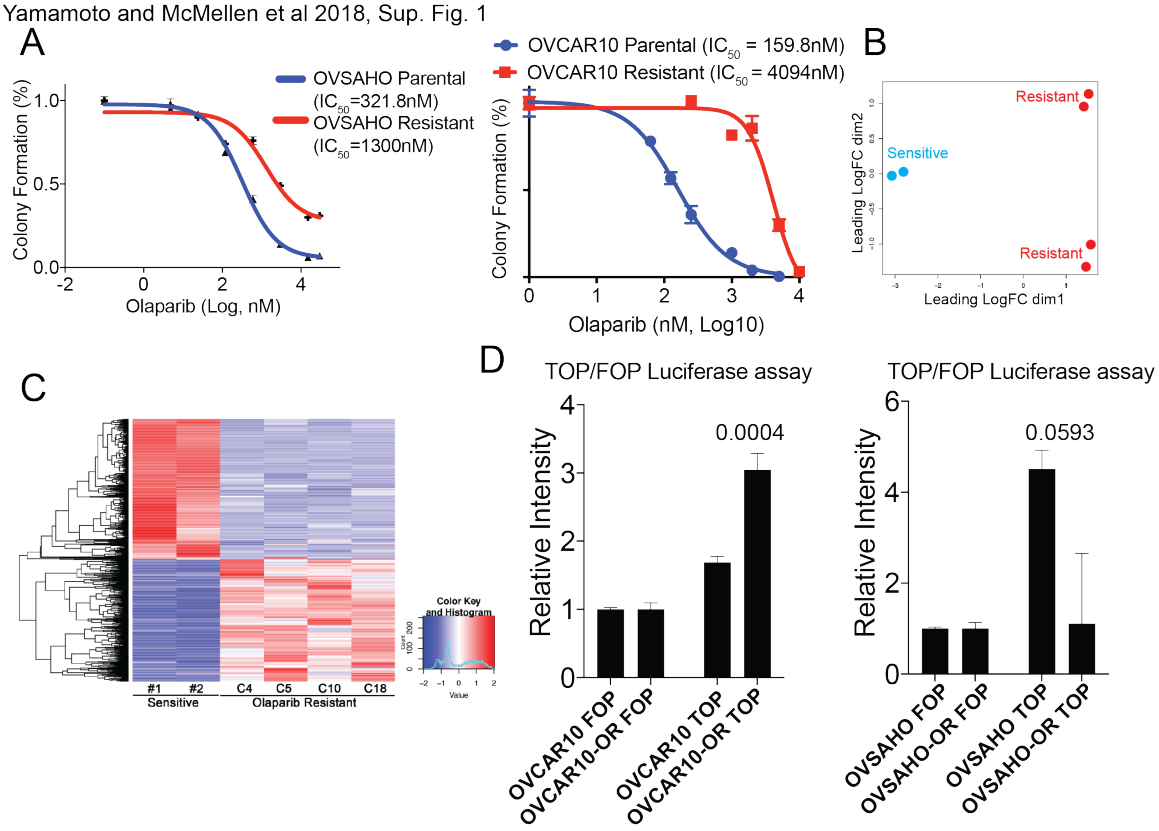
Supplementary Materials and Methods

Immunofluorescence. Immunofluorescence was performed by fixing samples in 4% paraformaldehyde and permeabilizing with 0.5% Triton-X. Samples were incubated with primary antibodies for 2 hours at room temperature, highly cross absorbed secondary antibodies (Invitrogen) for 1 hour at room temperature and mounted with prolong anti-fade reagent (Invitrogen). Immunostained cells were imaged using an Olympus FV1000 confocal microscope.

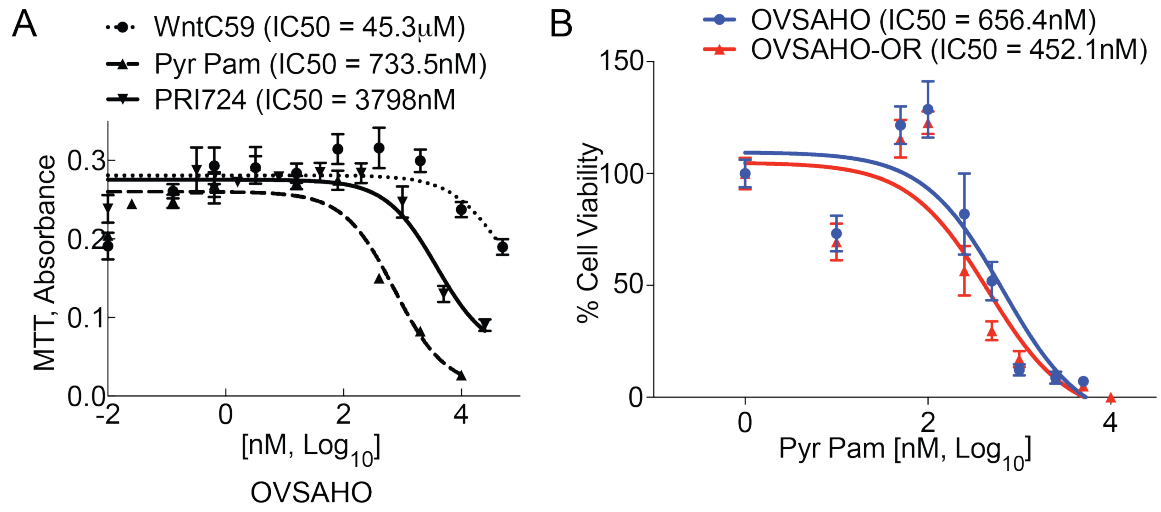
Supplementary Figures

Yamamoto and McMellen et al 2018, Sup. Fig. 1

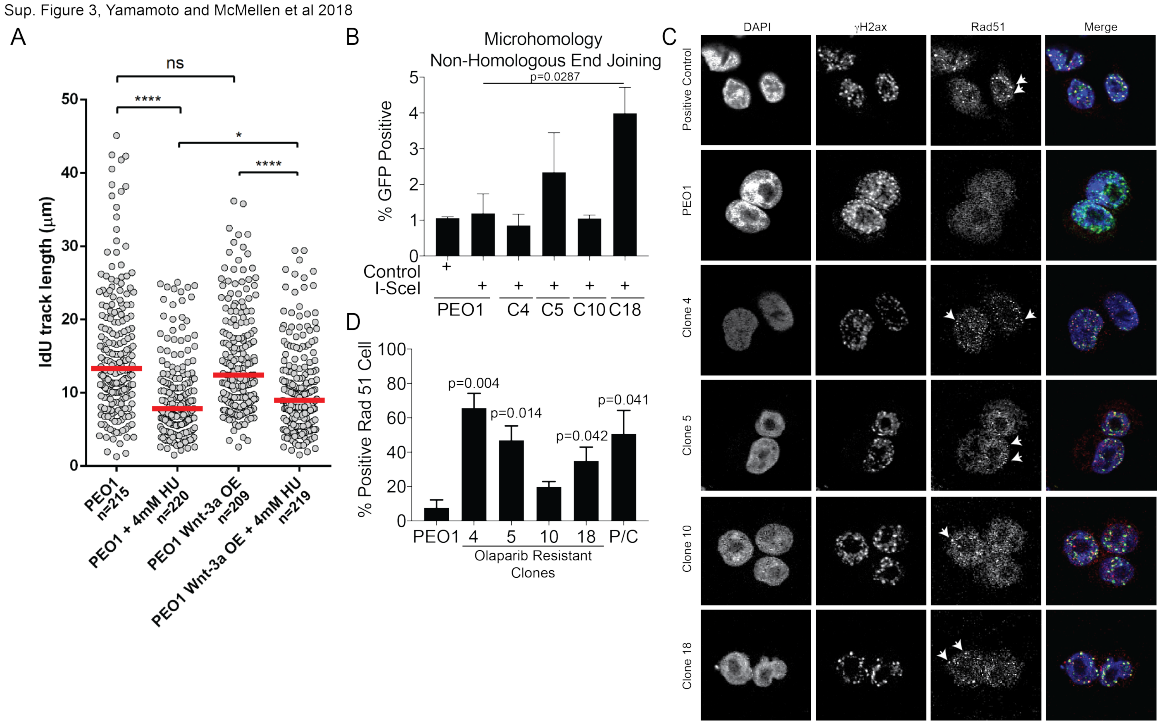


Supplementary Figure 1. Olaparib resistant and RNA-sequencing quality control. **A**) HGSOC OVSAHO or OVCAR10 cells were treated in a step-wise fashion with olaparib to establish olaparib resistant cells (OVSAHO-OR and OVCAR10-OR). Confirmation of resistance confirmed via colony formation and crystal violet staining. **B**) Principal component analysis of RNA-sequencing from PEO1 sensitive (n=2) and four independent resistant clonal populations (n=4). **C**) Hierarchal clustering of RNA-sequencing. **D**) OVCAR10, OVCAR10-OR, OVSAHO, and OVSAHO-OR were transfected with TOP/FOP-FLASH and incubated for 72hrs. Luciferase activity was measured. Experiments performed in triplicate. Error bars = SEM.

Sup. Fig. 2, Yamamoto and McMellen et al. 2018

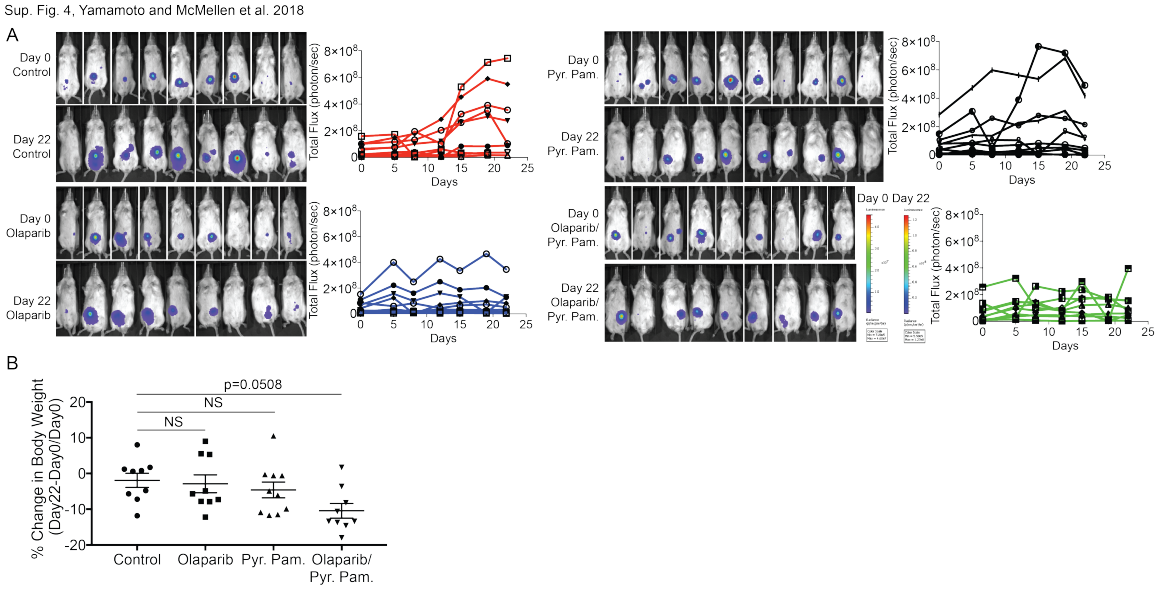


Supplementary Figure 2. Pyr. Pam. inhibits cell viability and TCF transcriptional activity. A) OVSAHO (TP53 and BRCA2-mutated) cells were treated with increasing doses of three different Wnt inhibitors (Wnt-C59, Pyr. Pam., and PRI724). Cells were treated for 48hrs and a MTT assay was used to examine changes in cell viability. IC50 values indicated for each inhibitor. **B**) OVSAHO and OVSAHO-OR were incubated with increasing doses of Pyr. Pam. and a MTT assay was used to examine changes in cell viability. IC50 values indicated. Experiments performed in triplicate. Statistical test used to calculate p-values, unpaired two tailed t-test. Error bars = SEM.



Supplementary Figure 3. WNT3A overexpression partially inhibits replication fork stability and DNA damage repair is rescued in olaparib resistant cells. A) PEO1 and PEO1-WNT3A cells were pulsed with 2'-deoxy-5-iodouridine (IdU) for 30 minutes, followed by 4mM hydroxyurea (HU) for 3 hours to promote replication fork stalling, washed, and pulsed with 5-chloro-2'-deoxyuridine (CIdU) for 30 minutes. DNA fibers were obtained using the FiberPrep kit and stretched on glass slides using the FiberComb Molecular Combing instrument (Genomic Vision). The length of IdU tracks occurring adjacent to CIdU tracks were measured to assess replication fork degradation. **B**) Two-plasmid functional assay performed to assess distal non-homologous end joining. PEO1 sensitive and PEO1-OR clones were stably transfected with EJ2GFP and subsequently transfected with I-SceI restriction enzyme. After 72 hours transfected cells were collected and examined via a flow cytometer to quantify GFP positive cells. Statistical test used to calculate p-value, ANOVA. **C**) TOV-21G (Positive control), PEO1, and four PEO1-OR clonal populations were examined for Rad51 via

immunofluorescence following irradiation. Percentage of Rad51 positive cells based on total nuclei (n=200 per cell population). **D)** Same as C, quantification of percent Rad51 positive cells. Statistical test used to calculate p-value, ANOVA.



Supplementary Figure 4. Olaparib and Pyr. Pam. inhibits tumor growth. A) GFP/luciferase PEO1-Wnt3a cells were injected into the intraperitoneal cavity of immunocompromised mice. Tumors were allowed to establish for 4 weeks. Mice were imaged and were randomized based in luminescence intensity on Day 0 and images shown. Mice were treated daily for 21 days with vehicle control (n=9), olaparib (n= 9, 50mg/kg), Pyr. Pam. (n= 10, 0.5mg/kg)and olaparib/Pyr. Pam. (n=9, 0.5mg/kg). Mice were imaged twice a week. Mice were imaged and sacrificed on Day 22 and image shown. All of the luminescence data shown for individual mice from each group. **B**) Percentage body weight change from Day 0 and 22. Statistical test used to calculate p-value, ANOVA.

Sup. Table . Yamamoto ,McMellen et al 2018

chrom	gene	strand	Sensitive (count) #1	Sensitive (count) #2	Resistant Clone 4 (count)	Resistant Clone 5 (count)	Resistant Clone 10 (count)	Resistant Clone 18 (count)	Sensitive (tpm) #1	Sensitive (tpm) #2	Resistant Clone 4 (tpm)	Resistant Clone 5 (tpm)	Resistant Clone 10 (tpm)	Resistant Clone 18 (tpm)	logFC (Resistant/Sensitive)	pValue	FDR
12	SCNN1A	-	35548	25157	151	135	162	132	154.6109922	117.6430969	1.168537751	0.972999541	1.227883794	0.964699384	-7.709618639	0	0
2	INHBB	+	13883	13722	20	28	23	11	111.8878841	114.6789876	0.135305795	0.286923828	0.180858363	0.08842074	-9.395089976	0	0
16	NETO2	-	7032	8500	3	6	4	0	24.27232911	30.42413318	0.016542347	0.042386356	0.022707847	0	-11.22251627	1.57E-261	2.81E-257
11	THY1	-	24634	22079	89	77	126	59	109.0150156	101.3205367	0.697708124	0.722154619	0.859130962	0.540753901	-8.05620926	2.62E-261	4.69E-257
19	CEACAM6	+	4502	5779	7	6	7	0	43.05602883	52.52655214	0.068812661	0.194196697	0.270907058	0	-10.00576488	1.79E-187	3.20E-183
6	IER3	-	471	590	36061	23725	33687	25166	8.969194922	11.70246055	576.4438171	488.03428	625.9013887	480.1029709	5.805009876	1.11E-137	1.98E-133
14	REC8	+	13583	10694	498	225	329	346	93.80640235	74.55123035	3.294062313	2.16503074	2.879104983	2.873613149	-5.118153888	7.06E-127	1.26E-122
19	GRIK5	-	6053	5583	118	53	71	108	32.65122587	31.22936423	0.753614209	0.645250664	0.703974539	0.790870464	-6.055096469	4.02E-117	7.19E-113
11	WT1	-	4328	4425	20	3	9	0	31.42807237	32.98647357	0.271799227	0.076152087	0.801233948	0	-9.095561855	4.46E-117	7.98E-113
17	KRT23	-	10080	4830	61	58	84	67	92.53010281	44.56651404	1.03299632	1.122416308	1.021392826	0.809359693	-6.78717704	1.03E-114	1.84E-110
6	SLC22A3	+	6197	3553	18	24	4	12	27.83437233	16.54862221	0.138701667	0.244580941	0.047048285	0.116800681	-8.393205508	8.74E-108	1.56E-103
10	BEND7	-	2259	1588	6	5	2	0	7.390373249	5.387252581	0.867039534	0.076501729	0.040999766	0	-9.209078396	1.43E-101	2.55E-97
16	IL32	+	4383	2401	154740	112315	143501	141751	46.17643537	24.48253482	1147.107537	1072.190404	1236.462152	1254.978772	5.347190432	1.11E-100	1.98E-96
15	ASB7	+	1563	1589	36923	23865	35269	25261	7.833852108	8.258610527	155.3459856	128.6362764	172.4727785	126.2782789	4.266382275	1.25E-94	2.24E-90
7	FLNC	+	12296	11232	198591	155936	147873	123395	34.22171192	32.73369646	468.4065509	466.6339032	401.4617522	342.4550349	3.733239537	1.64E-90	2.93E-86
4	SORCS2	+	3091	2067	13	8	24	21	12.87981881	8.931366746	0.077244476	0.070237439	0.142340996	0.380074177	-7.288201938	1.02E-89	1.81E-85
19	NLRP2	+	5895	5271	8	6	7	33	27.91006967	26.38635256	0.14225423	0.105589839	0.077691848	0.685403353	-8.691937339	5.81E-88	1.04E-83
17	MEOX1	-	446	360	11502	12696	15811	17602	4.276522389	3.561009953	92.10093019	130.2436425	147.1547723	167.4664178	5.159420651	5.55E-79	9.92E-75
1	PTPRU	+	5458	5433	161	163	70	106	22.98764385	24.08184806	0.757342475	0.932728375	0.559696905	0.620450528	-5.445064522	1.52E-76	2.71E-72
8	NAPRT1	-	12176	10108	1662	1241	1335	1107	102.1144483	88.53780219	11.70038735	11.92481951	10.92382779	11.10646166	-3.059746368	2.30E-75	4.11E-71
19	EMC10	+	830	701	0	0	0	0	10.24982155	8.618249942	0	0	0	0	-144269513.7	9.08E-70	1.62E-65
12	RASAL1	-	2490	1748	53	42	39	22	14.2124515	10.4244711	0.448410376	1.072994812	0.87573966	0.402129244	-5.763765654	1.68E-68	3.01E-64
6	FLOT1	-	43920	37229	8297	5535	7869	6282	355.9662347	312.8920596	56.44873678	49.34435198	63.11823951	50.78157076	-2.536022677	2.80E-66	5.00E-62
19	CEA	+	700	992	2	2	0	0	105.0901079	39.58659013	0.314144759	0.402465618	0	0	-9.724513853	2.81E-64	5.02E-60
7	SP8	-	1083	1244	18	10	17	8	16.31585676	19.43428223	0.258560497	0.184030004	0.283833041	0.12837159	-6.456335041	2.37E-62	4.23E-58
5	CXXC5	+	10118	8996	459	423	785	637	78.45898515	76.08472563	3.672675767	4.384756994	6.966385964	6.123795628	-4.052417102	4.66E-61	8.33E-57
1	CLIC4	+	24273	19024	179611	205559	188471	205351	143.0026976	117.2117251	866.1281299	1269.944308	1056.374981	1176.579008	3.169269542	1.50E-60	2.68E-56
7	SUN3	-	8	4	2275	4415	2283	3407	0.49068201	0.608564012	57.87895951	145.2667221	59.17563333	102.9879725	9.010761193	1.50E-59	2.68E-55
5	PCDH1	-	20396	16542	2827	1877	2879	2954	94.6224189	79.57996743	11.00934586	9.783132424	13.47724861	14.12007078	-2.80964158	1.04E-58	1.85E-54
1	AK4	+	11323	10711	921	1057	1381	1160	39.04180801	38.2970332	2.719464007	4.155297976	4.753197562	4.081322165	-3.28565596	1.19E-58	2.13E-54
18	SIGLEC15	+	490	399	11743	16977	20780	22581	3.827238049	3.155330711	70.80420897	131.1414344	145.6296872	161.7700969	5.341291797	5.08E-58	9.08E-54
10	COL17A1	-	7565	8865	73311	53243	76146	76416	31.71691754	40.17202206	260.2929373	230.0910217	298.5448896	306.2651275	3.086460442	2.18E-57	3.90E-53
18	ALPK2	-	605	314	14037	8425	13354	9250	1.978269619	1.063486009	33.84492197	25.68767295	37.42440879	28.54758412	4.615830732	4.47E-56	7.99E-52
22	SMTN	+	3339	3908	25305	20318	20331	23187	10.20598107	12.07382011	63.26538469	59.4994678	54.06654628	66.82004653	2.620633346	1.36E-54	2.43E-50
3	UPK1B	+	1477	1749	63	40	53	30	17.10282599	20.66754284	0.742166993	1.509246067	0.707256826	0.452363294	-5.116371912	1.71E-54	3.06E-50
7	DENND2A	-	5846	5673	33463	28795	34278	31925	30.19728647	30.32638851	140.8981349	155.6327024	167.7568275	159.7152323	2.47924305	7.95E-54	1.42E-49
21	COL18A1	+	4289	2931	374	284	254	307	13.02341979	9.228933348	1.475845557	1.990589663	1.502904302	1.660711388	-3.566300711	1.23E-53	2.19E-49
7	SMO	+	4471	3610	62	148	95	64	26.78051299	22.42271111	0.431293735	1.163640682	0.671378361	0.473238936	-5.452841112	1.23E-53	2.20E-49
18	DLGAP1	-	841	697	4	8	2	2	2.627516081	2.165634847	0.355344071	0.692090408	0.599865628	0.13173683	-7.586839788	2.84E-53	5.07E-49
9	TRAF1	-	308	330	4936	3845	3469	4851	1.245805038	1.397272209	17.11882856	16.72558595	13.69035436	19.37282107	3.744380457	3.69E-52	6.59E-48
3	CCDC80	-	19101	15189	152558	100361	165037	127729	96.59786747	86.62685111	639.2510016	545.835836	783.7890656	620.0948057	2.992208578	1.15E-51	2.05E-47
6	FOXQ1	+	764	1015	0	7	4	0	8.510835016	11.72496495	0	0.083861473	0.043476025	0	-8.337419177	1.89E-51	3.37E-47
19	KLK7	-	1187	1090	31	37	24	22	14.80003917	11.94708555	0.576785956	0.712054555	0.991253366	0.714502024	-5.320028562	1.16E-50	2.08E-46
12	ABCC9	-	414	612	11745	5825	7362	8112	1.892100228	2.831273619	40.99589102	27.94764918	32.04575875	35.2549631	4.009285701	3.03E-50	5.40E-46
2	SDPR	-	7514	6325	1010	1014	1116	1063	60.08905727	52.45071676	6.780039714	8.720628496	8.707618988	8.478503214	-2.719248337	1.36E-49	2.43E-45
11	SYT7	-	11448	10375	1865	895	1611	1408	50.72269523	46.6671378	6.790814426	4.496068058	7.116974946	6.498639194	-2.916957667	4.17E-48	7.44E-44
2	NGEF	-	3962	3945	398	308	442	473	29.45791011	28.9886227	2.813778005	2.937225038	3.81889764	4.183345554	-3.286246334	2.18E-47	3.89E-43
12	AMIGO2	-	3802	2285	141	50	42	54	24.81693107	19.33176168	1.038856002	0.367913721	0.384227657	0.561917459	-5.406608724	4.03E-47	7.20E-43
2	VWA3B	+	102	94	2085	1616	1813	2212	0.64460557	0.84634188	8.40983173	8.030874418	8.727047785	8.364273246	4.300796118	4.26E-47	7.60E-43
11	TSPAN18	+	639	493	6	4	4	2	3.664301125	2.729729227	0.099659717	0.071205455	0.09288242	0.047473825	-7.144658243	4.86E-47	8.67E-43
15	HOMER2	-	1051	1010	29	11	10	25	2.886213971	2.862769628	0.087028058	0.04076213	0.036058904	0.083738296	-5.780310099	6.21E-46	1.11E-41
2	KCNF1	+	1970	1699	18	38	6	15	22.23322437	19.88365876	0.17052788	0.461217155	0.066069116	0.16884539	-6.574384649	6.70E-46	1.20E-41
8	DLC1	-	5754	5214	47213	48352	31241	43848	20.26743938	18.87700396	129.7399136	172.6110311	100.7290616	142.7126902	2.959701849	3.65E-45	6.51E-41
10	CALML3	+	385	365	0	0	2	0	7.635579267	7.506557624	0	0	0.038701008	0	-9.550746785	1.17E-44	2.09E-40
5	NR2F1	+	2254	1419	47	60	94	52	14.59822055	9.805497453	0.272982704	0.446465074	0.634584539	0.369852696	-4.859749606	3.57E-43	6.37E-39
2	TRIB2	+	3357	3059	376	421	377	376	18.89383754	17.9352489	1.794401502	2.57402548	2.079761846	2.215952147	-3.049405926	3.16E-42	5.64E-38
20	EYA2	+	1201	991	10	0	12	0	11.47756887	9.82080872	0.394826746	0	0.545726131	0	-7.638600464	8.15E-42	1.45E-37
9	BRINP1	-	320	242	0	0	0	0	2.291482267	2.050629619	0	0	0	0	-144269512.2	1.41E-41	2.51E-37
16	QPRT	+	2746	1597	16641	14474	16777	17134	19.62568464	11.8357531	99.04176886	109.2241378	116.0586812	121.1637736	2.904252823	3.99E-41	7.12E-37
10	MKX	-	902	986	32	14	36	20	5.925100737	6.483777279	0.214813139	0.128268488	0.259512684	0.191911701	-5.210217707	5.26E-41	9.38E-37
7	AUTS2	+	7727	6668	1715	1344	1588	1523	25.46295073	19.44965278	4.704419138	5.082806963	5.057342677	5.573991755	-2.222225394	1.30E-40	2.31E-36
7	COL26A1	+	420	402	4	0	4	0	3.606684115	3.579740684	0.043789875	0	0.425221205	0	-7.682994584	1.50E-39	2.67E-35
19	KLK6	-	63982	56875	9050	5247	11902	7414	836.1094192	770.714291	99.27514909	73.73980752	151.7526465	96.63169802	-2.84620982	1.94E-39	3.46E-35
2	WIPF1	-	475	202	0	0	0	0	2.178599801	1.219323024	0	0	0	0	-144269512.5	3.20E-39	5.70E-35
17	TANC2	+	15507	9920	3098	2255	1969	2469	25.1080974	18.24605164	4.622261283	4.423681676	3.44091612	4.491945781	-2.376833134	6.66E-39	1.19E-34
19	DIRAS1	-	355	320	0	2	2	3	2.630375891	2.502506216	0	0.021653121	0.188721771	0.027282363	-7.59138877	3.56E-38	6.35E-34
1	NCF2	-	2001	1299	16964	10729	9805	14314	20.07385537	15.76749077	126.578818	102.5630634	86.76876159	148.1714758	2.972748345	5.72E-38	1.02E-33
X	BEX1	-	417	533	6	0	2	6	12.46276934	16.51856852	0.180884465	0	0.214420054	0.178851043	-7.084428781	6.60E-38	1.18E-33
19	PSG4	-	1372	735	14681	18242	11841	19478	6.881891447	4.308441361	61.87540055	98.49944939	58.00629473	79.95650767	3.930254589	7.80E-38	1.39E-33
19	KLK9	-	925	634	24	17	8	22	12.2994234	8.791559642	1.284503014	0.375869562	0.508976896	0.429893858	-5.456658093	1.21E-37	2.15E-33
14	CRIP1	+	77303	53277	7835	2479	6211	3379	647.0434197	530.724871	92.65213789	48.44626769	75.99910026	37.65669631	-3.713803651	1.38E-37	2.45E-33
1	ZP4	-	40	56	1732	3740	3567	2734	1.055041503	0.971809284	20.86871141	57.73222753	49.95456875	39.14004463	5.938231874	1.75E-37	3.13E-33
14	PAX9	+	4919	4642	989	670	558	754	22.24502812	23.48790292	4.455019219	3.86658053	3.114410912	3.807633502	-2.686212915	1.91E-37	3.40E-33
17	SLC16A3	+	18165	14903	1164	435	1481	611	52.53799143	44.69700901	2.902766963	1.420675705	4.281450578	2.926000406	-4.163352149	2.03E-37	3.61E-33
6	KCNK5	-	1343	1147	48	44	79	70	9.232996562	8.177052326	0.285523447	0.325315659	0.529913246	0.47998363	-4.369040691	3.11E-37	5.54E-33
14	FLRT2	+	579	716	5434	6436	5197	6692	1.661963041	2.118475207	12.85747415	19.50971962	14.29266129	18.81338828	3.197450112	3.26E-37	5.81E-33
17	HOXB6	-	1398	1048	39	26	58	18	8.852219919	7.541548966	0.290303415	0.251488442	1.04750729	0.255698789	-5.116657336	3.73E-37	6.64E-33
11	CPT1A	-	12763	11166	1132	1526	1634	799	56.77312368	48.47437308	4.462935398	7.154687618	7.154601723	3.742794766	-3.232739137	4.35E-37	7.75E-33
9	GLDC	-	2484	3006	140	67	68	185	14.26967691	17.90680988	0.762855296	0.779471534	0.836123101	1.208673716	-4.577100383	6.88E-37	1.23E-32
12	RAPGEF3	-	28602	26052	8564	7599	8184	8684	61.57272788	59.06270627	16.20118382	18.47856391	18.2728299	19.09438351	-1.72650644	1.33E-36	2.37E-32
7	PODXL	-	94186	79682	419193	328302	272558	323273	362.2407138	321.2331065	1353.35457	1357.907125	996.9400965	1240.058194	1.949745125	1.87E-36	3.33E-32
17	RAP1GAP2	+	5085	5141	22220	18475	23913	21997	18.8738804	20.24108421	70.80865351	73.75691603	86.59948885	82.95838938	2.082208388	3.97E-36	7.07E-32
22	FBLN1	+	12764	7397	22	165	83	62	59.94794563	31.0354296	0.433126016	1.409434346	0.495059559	0.869707033	-6.924240148	4.49E-36	8.00E-32
5	DPYSL3	-	20900	20184	6272	3812	4639	6001	81.75772498	78.73882058	19.23211189	16.5509266	16.53368499	23.41712967	-1.987274163	4.53E-36	8.06E-32
12	MSI1	-	1158	952	12	39	15	14	10.05110556	8.568581283	0.122752176	0.450701197	0.165970727	0.177442767	-5.721099189	1.32E-34	2.35E-30
16	CALB2	+	3237	3268	134	215	145	59	49.22630727	59.69074786	2.048365613	4.069923272	2.495342674	1.176097881	-4.556197671	5.67E-34	1.01E-29
5	EPB41L4A	-	4079	2847	375	381	424	525	16.94201581	11.96384128	1.533678421	2.252111244	2.298280358	2.155450162	-3.022250648	6.63E-34	1.18E-29
19	PDE4A	+	1122	677	50	42	44	30	5.867242197	3.686031878	0.332453809	0.601208949	0.332299664	0.292112101	-4.43794004	6.89E-34	1.23E-29
12	GAPDH	+	1232569	1296132	571236	387885	487213	427127	10698.34294	11665.97941	4162.052061	3620.711245	4126.056454	3697.634881	-1.432690514	7.56E-34	1.35E-29
17	BZRAP1	-	519	369	8	0	1	0	1.936380736	1.559937684	0.541899709	0	0.763465345	0	-7.624490865	1.84E-33	3.27E-29
6	LRP11	-	5257	4540	176	441	343	352	36.54024069	34.37973613	1.160624871	3.463412411	2.65081725	2.563801379	-3.90057232	5.48E-33	9.75E-29
1	PIK3CD	+	2176	1967	10481	8491	7745	10245	9.130480723	8.220695813	35.39826019	37.16837227	30.40359771	40.65568058	2.157295097	1.46E-32	2.59E-28
1	CYR61	+	21385	15738	81197	91344	85196	94098	224.9313568	171.6552091	716.9145525	1033.252358	874.3211347	987.1493549	2.244513799	5.31E-32	9.45E-28
17	GRAP	-	0	0	456	241	271	301	0	0	6.023309378	3.916091725	3.995126142	4.724021703	144269512.4	8.15E-32	1.45E-27
22	MAPK8IP2	+	876	734	34	18	23	47	3.904746303	3.328396836	0.16981189	0.291295045	0.285875775	0.470814415	-4.722107635	1.01E-31	1.80E-27
3	HES1	+	2670	1139	125	99	151	124	33.48475761	14.79087973	1.496133928	1.335231974	1.847667709	1.551026822	-3.932300567	1.02E-31	1.81E-27
17	KRT34	-	117	34	31280	9145	36428	11761	1.725408608	0.519938185	387.2215395	145.035875	524.1462101	172.9864449	8.196842286	1.07E-31	1.91E-27
2	IGFBP2	+	447	352	11	2	1	4	2.660787675	2.189925514	0.079478624	0.315569632	0.072816059	0.447905221	-6.472126691	1.40E-31	2.48E-27
9	GBGT1	-	218	191	0	0	0	2	1.97378215	1.635552272	0	0	0	0.076536553	-8.675957033	2.62E-31	4.66E-27
2	C2orf72	+	183	161	0	0	0	0	1.292166192	1.178853557	0	0	0	0	-144269511.5	3.38E-31	6.01E-27
9	ASS1	+	9196	7328	1115	381	603	297	111.8513456	86.40269106	12.94522068	6.848167396	7.954029787	5.058929507	-3.785863152	6.90E-31	1.23E-26
12	LTBR	+	56851	59096	21537	19025	20955	19367	233.9092617	252.1355559	80.4195971	85.87884885	86.59139541	87.1093912	-1.519539242	7.82E-31	1.39E-26
11	SPTBN2	-	17501	15811	5301	4289	5017	5779	51.41805507	49.41272711	13.88069754	14.26078513	14.88285481	17.76080498	-1.708463246	7.89E-31	1.40E-26
17	SLFN5	+	1763	1316	7689	6239	6726	6918	4.251044376	3.338223809	15.56323414	16.41320825	15.82381557	16.87855043	2.162670148	8.35E-31	1.49E-26
11	CYB5R2	-	5956	5092	254	483	328	621	20.41097154	16.87052087	3.236743705	2.882650257	3.545151819	5.897336167	-3.712108783	8.51E-31	1.51E-26
14	MOK	-	1533	1458	8830	6584	10217	6896	5.001938569	4.835946795	22.69642798	20.83392437	29.9245221	21.30047713	2.442937952	9.99E-31	1.78E-26
19	TEAD2	-	1197	1147	6025	4967	6929	6170	11.73020969	12.03487795	47.09622424	50.35933696	61.33931669	55.38709475	2.361449805	1.29E-30	2.29E-26
16	METRN	+	3402	3438	271	269	96	108	23.79385779	24.93464116	1.630814226	2.336616932	0.725234846	0.875784453	-4.200621799	1.36E-30	2.42E-26
17	KRT17	-	149	176	92211	11014	28741	33125	2.542960329	3.397779168	787.8457083	120.5597894	285.4201799	336.2709799	7.98860604	1.93E-30	3.44E-26
4	EVC2	-	265	231	0	0	2	4	1.511233947	1.505707063	0	0	0.074429413	0.324978552	-7.36923381	2.18E-30	3.87E-26
17	GNGT2	-	0	15	4633	1204	3575	1741	0	1.109536596	64.45754431	25.60125089	58.37318473	31.20297281	8.538253611	5.65E-30	1.01E-25
2	GREB1	+	644	538	28	9	22	9	1.626352926	1.512115806	0.156062657	0.081596849	0.16164358	0.174936568	-5.119551479	8.56E-30	1.52E-25
5	COL23A1	-	309	112	0	0	0	0	2.665010523	1.1115654	0	0	0	0	-144269511.8	1.21E-29	2.15E-25
11	TRIM29	-	29603	23262	4576	1599	2261	4180	86.5601669	69.48709345	13.35163854	12.2901838	9.777624401	29.19035247	-3.067058317	1.26E-29	2.24E-25
8	RECQL4	-	12613	10862	4492	3344	3580	3149	76.79666631	68.58047181	23.01312685	21.9275813	21.26757741	19.16830031	-1.688619456	1.57E-29	2.79E-25
12	TNFRSF1A	-	43785	42242	16309	11951	15950	12204	294.8936971	284.4834716	88.33425638	82.92873445	104.8942793	85.45637054	-1.608736294	2.34E-29	4.15E-25
12	CORO1C	-	42934	42132	138808	112742	122301	125689	202.2341833	207.5732904	561.6577546	497.0407571	504.9647622	590.4895407	1.553945683	2.79E-29	4.97E-25
5	CD14	-	853	702	66	46	59	47	11.67883674	10.96053947	0.968595282	0.864878721	0.818990097	0.642155894	-3.83451454	3.25E-29	5.77E-25
19	ZNF208	-	187	132	0	0	0	0	0.755908004	0.601419054	0	0	0	0	-144269511.4	4.58E-29	8.13E-25
20	PPP1R16B	+	213	238	2	2	4	0	0.908209377	1.034055221	0.008905501	0.011409255	0.020702018	0	-6.816983623	1.58E-28	2.80E-24
3	CLDN11	+	681	979	21	46	24	18	1.94781545	10.1567235	0.203667005	0.559293288	0.348912033	0.217541954	-4.928783201	1.80E-28	3.19E-24
2	C2orf70	+	189	123	0	0	0	0	2.013359988	1.337210082	0	0	0	0	-144269511.4	2.46E-28	4.37E-24
20	BMP7	-	267	385	5	6	0	0	1.717616241	2.5689196	0.130421109	0.145902597	0	0	-6.889296536	3.09E-28	5.49E-24
22	PLXNB2	-	126261	102862	44399	34479	43903	39539	449.5765746	379.8010066	135.3956397	134.7054348	155.6144946	141.9048441	-1.497281517	3.99E-28	7.09E-24
5	MEF2C	-	2295	3813	114	121	295	131	8.731665408	15.12368558	0.440239208	0.635435976	1.151229109	0.628276737	-4.207977885	4.13E-28	7.34E-24
10	ARHGAP22	-	977	1193	92	86	41	74	4.046227996	5.368864218	0.563012684	0.827522861	0.455252804	0.663823308	-3.888722473	4.89E-28	8.69E-24
7	IGF2BP3	-	1133	898	4991	5157	4816	4908	4.290436357	3.522129958	14.90971029	20.16765923	16.01584217	17.37741716	2.290474934	5.70E-28	1.01E-23
2	MALL	-	23194	21687	10035	5909	6314	6556	189.1123251	183.3624312	68.68283648	51.81360409	50.22960724	53.31443992	-1.63933487	1.68E-27	2.98E-23
4	SLIT2	+	10135	7643	746	1222	810	1507	28.53018608	22.7066691	2.467992569	5.069479528	3.043159657	5.656092564	-3.052725923	2.18E-27	3.87E-23
15	TLE3	-	11808	9895	1477	1672	592	1025	25.66996451	32.57796623	4.207021655	7.653148738	2.601161314	4.571153934	-3.187043623	2.83E-27	5.03E-23
18	EPB41L3	-	10289	8066	375	358	69	443	33.06583779	27.35331839	1.788447884	2.489783544	0.656251638	2.416705305	-4.881955467	3.50E-27	6.21E-23
1	LCK	+	48	40	1072	841	642	1162	1.085343921	0.642515093	9.913250646	9.595183786	7.13488169	11.39200128	4.400491354	4.32E-27	7.67E-23
17	NLRP1	-	217	159	2464	1227	2190	1946	0.560396495	0.659466206	4.344012631	2.946808493	4.349676031	3.954422812	3.379654878	4.38E-27	7.77E-23
6	PKIB	+	1657	1295	191	201	148	152	16.17055453	17.486625	2.841533133	3.258491333	1.928006589	1.927470031	-3.092848778	4.39E-27	7.80E-23
8	KHDRBS3	+	6152	6231	1281	1497	916	1270	41.70590973	61.18311099	11.74574496	18.73451152	12.70816654	14.35833133	-2.318785855	5.18E-27	9.20E-23
4	MFAP3L	-	1685	1556	7571	5113	6472	5923	5.701783153	5.655589316	21.08285044	18.55333367	21.56279747	19.27766977	1.951968897	7.22E-27	1.28E-22
12	TMCC3	-	1737	1178	202	117	184	154	7.06013829	5.090058068	0.754142206	0.540077283	0.77057207	0.683121036	-3.149530608	1.09E-26	1.94E-22
12	BCAT1	-	2864	2554	10072	8642	11025	10417	8.356453247	7.68663475	26.19322792	23.87479536	30.67562441	27.6070333	1.889783269	1.14E-26	2.03E-22
3	MME	+	702	483	4909	7610	4856	4854	2.790508442	2.2858258	14.22749389	23.74768752	16.21091752	14.09386547	3.229484084	1.96E-26	3.48E-22
2	SLC16A14	-	773	771	79	57	54	72	4.463442494	4.364677702	0.390602892	0.361062335	0.319365081	0.445966237	-3.559034036	3.37E-26	5.99E-22
10	CCDC147	+	456	341	3309	2514	2282	3471	5.431225185	3.990775538	28.8635193	24.01585857	21.62223439	31.01805822	2.860413293	4.00E-26	7.11E-22
2	CNNM4	+	6502	5378	1189	1308	1030	1524	33.70043345	29.46107185	5.27265756	7.431122532	5.308958074	8.029855673	-2.233893889	4.64E-26	8.24E-22
11	C11orf68	-	5137	5506	19596	13817	14856	15310	75.32557482	83.7212673	241.2053764	217.8874807	212.542509	223.9080998	1.578645457	1.40E-25	2.49E-21
19	KLK10	-	12107	7467	1943	734	1326	1749	81.26557281	51.97361292	12.85998332	6.285314116	8.9182372	12.27376249	-2.766803024	1.42E-25	2.52E-21
1	NFASC	+	1108	1130	6960	3965	5242	4540	2.441830844	2.888297314	13.05963287	10.8374563	10.24186244	10.86467738	2.209836612	1.59E-25	2.82E-21
22	SEPT3	+	951	759	69	37	79	71	5.282180231	4.42490828	0.371127344	0.300437053	0.491202901	0.448839731	-3.73978061	2.00E-25	3.55E-21
1	LPHN2	+	6925	6851	519	414	215	872	28.81378102	30.23701499	1.963322505	2.102950949	0.966248059	3.980497658	-3.76972985	2.26E-25	4.02E-21
3	TMEM40	-	4424	5560	26881	16784	25945	17834	34.49189338	44.37529055	173.6727997	138.9251333	194.8338528	136.9021307	2.130669557	2.35E-25	4.18E-21
6	DAAM2	+	3013	2744	650	496	312	419	11.30844625	11.43588864	2.171607958	2.185305934	1.305103634	1.722451164	-2.616888562	2.37E-25	4.20E-21
20	LRRN4	-	178	238	2240	1955	2857	1596	1.707407526	2.367341133	18.03648362	20.16738466	26.73858698	15.2690424	3.37771109	5.10E-25	9.06E-21
7	SERPINE1	+	26	17	3269	9478	4578	1599	0.252112527	0.213411102	22.21975727	82.76895272	36.1680036	12.95016534	7.781664691	5.40E-25	9.58E-21
6	SLC35F1	+	478	475	34	10	22	20	2.543895981	2.621390734	0.158695866	0.076103392	0.132506775	0.125234866	-4.470067649	5.66E-25	1.00E-20
13	GPC6	+	300	320	14	11	9	16	1.197872621	1.324970045	0.05463879	0.175760301	0.044670845	0.072407802	-4.632268215	9.95E-25	1.77E-20
7	PARP12	-	4572	3564	15345	11754	11641	14419	18.7842208	15.18659676	52.92252049	51.93477806	46.66467821	59.08589651	1.707922381	1.01E-24	1.80E-20
3	EPHB3	+	4626	4219	1281	561	765	717	26.62800341	25.1831005	6.429020857	3.67777186	4.377397825	4.35930418	-2.411941761	1.09E-24	1.93E-20
8	OSR2	+	7628	8252	55287	25782	35061	29528	74.07720571	83.13103455	409.0103645	244.3581674	301.4809996	259.5496105	2.197302123	1.97E-24	3.49E-20
15	CTSH	-	676	573	50	20	12	20	4.325016644	3.782819492	0.346704868	0.186564512	0.110825615	0.379860623	-4.61413242	2.22E-24	3.94E-20
X	FHL1	+	2466	1638	11044	6896	8122	7540	22.50880141	13.63819199	54.46862693	51.39635001	45.16189858	57.55462615	2.033444469	2.43E-24	4.31E-20
16	SALL1	-	157	195	0	4	0	0	0.773974056	0.996845975	0	0.032122762	0	0	-7.459431619	3.82E-24	6.77E-20
22	FAM109B	+	280	223	10	10	8	6	2.949897765	2.557271984	0.106778268	0.152332022	0.089819452	0.084765387	-4.886951749	3.92E-24	6.94E-20
2	ARHGEF4	+	1393	1348	37	110	89	86	4.047056945	3.920402808	0.160755977	0.508441085	0.39201009	0.36185122	-4.089569735	4.14E-24	7.35E-20
19	KLK8	-	1802	1257	28	0	35	24	25.52468333	18.45310217	1.238627906	0	1.306374034	2.176440863	-6.135900896	4.22E-24	7.48E-20
1	HPDL	+	2187	2089	354	335	174	292	31.32169823	31.02427603	4.255851291	5.159729759	2.431402113	4.171008687	-2.888369001	4.86E-24	8.61E-20
4	LEF1	-	49	119	2433	1329	1328	1308	0.553009134	1.17537483	14.58856975	10.38157514	9.146556934	9.199058351	4.251087854	7.29E-24	1.29E-19
7	DFNA5	-	601	862	4736	3078	3944	4341	2.256340014	3.384897468	14.15184462	10.13354509	14.39468949	13.19958707	2.459969403	7.79E-24	1.38E-19
1	TP53BP2	-	16048	13038	53186	63223	75957	78529	82.48282553	68.30681543	199.9408804	314.3618226	338.2866762	361.0280389	2.219336954	8.76E-24	1.55E-19
4	ARHGAP10	+	4958	4578	16325	14812	12330	14641	17.88824564	32.98823089	34.80138767	104.7977402	83.50710056	114.437745	1.607280659	9.39E-24	1.66E-19
19	CNN2	+	848	636	41	4	11	16	9.142870728	6.731247154	0.679446118	0.229980353	0.193532067	0.333662189	-5.365350375	9.96E-24	1.77E-19
7	IGFBP3	-	209079	200805	589936	447033	541042	614805	1208.882081	1203.967452	2863.288371	2779.705209	3052.21786	3545.460422	1.41949718	1.06E-23	1.88E-19
9	PCSK5	+	5267	3237	897	549	348	641	12.13249024	7.517480923	1.805326049	1.485366336	0.855796585	1.685245681	-2.804219825	1.47E-23	2.61E-19
8	DEFB103B	-	4	5	408	404	334	215	0.199398771	0.25846348	17.07297924	21.65855514	16.24500971	10.68962992	6.24052635	1.70E-23	3.02E-19
18	RAB31	+	7171	6504	949	1439	764	1373	41.78036363	38.35511217	4.743028118	9.418150756	4.381627195	8.279325087	-2.595551136	1.96E-23	3.48E-19
1	TSPAN1	+	20854	16685	5712	4242	6902	5898	247.811746	233.9116144	68.21666417	61.67585413	85.70302991	79.52897234	-1.722270035	2.26E-23	4.00E-19
4	FGFBP1	-	4998	2476	374	319	548	579	98.89583118	50.80413615	6.226435979	6.803894557	10.57969907	11.42673147	-3.037942113	2.30E-23	4.07E-19
4	SHROOM3	+	29388	23605	12190	8493	9588	10380	61.47112788	49.9144558	24.96506973	21.51342643	21.2139711	25.33234447	-1.38251096	3.63E-23	6.44E-19
20	RIMS4	-	2059	1530	230	251	138	264	10.21279061	7.869483147	0.958192835	1.357146035	0.676951164	1.32383202	-3.02309658	4.15E-23	7.34E-19
1	KISS1	-	6633	5529	40026	89768	101861	72611	241.5772354	208.8138484	1223.699732	3516.035003	3619.636579	2637.607399	3.64488073	4.53E-23	8.02E-19
9	RUSC2	+	5977	5788	19907	14139	15820	14743	27.16278344	27.27634881	75.94225627	69.10275159	70.14690564	66.82494436	1.457233825	5.13E-23	9.09E-19
15	SEMA7A	-	4720	3423	17489	10438	14049	13288	32.10761447	24.89327619	87.9766443	77.23543623	93.21978211	92.94580751	1.762707681	6.37E-23	1.13E-18
7	CLDN3	-	3158	2102	91	96	292	115	64.05838227	44.21435059	1.549501131	2.094212296	5.779066819	2.326609014	-4.146527963	6.59E-23	1.17E-18
8	EXT1	-	37443	33220	99547	89684	99644	94798	116.1391493	106.8499513	259.1927463	299.1634986	301.5575311	293.270853	1.440850337	7.38E-23	1.31E-18
3	ITGB5	-	56388	47941	24001	16797	22225	19005	242.192095	223.1758276	91.75403818	84.41093626	94.26676269	85.10958561	-1.346951877	8.90E-23	1.58E-18
6	EPB41L2	-	15492	16193	65847	74517	58000	96200	44.41889909	49.13280337	153.3905218	222.2952627	157.2952282	262.5675849	2.216709202	1.06E-22	1.89E-18
11	SIPA1	+	2719	2510	8976	7097	9548	8771	16.5746933	15.91141322	43.75166887	44.75127061	53.87585994	51.29272478	1.71746604	1.35E-22	2.40E-18
1	NFIA	+	5889	5104	17	40	45	187	15.72072647	13.34005578	0.062925513	0.137731569	0.134107646	0.53799161	-6.24937185	2.01E-22	3.57E-18
19	TLE2	-	2604	2137	319	137	106	300	22.18437962	19.46990707	3.093798785	1.63283583	1.444349257	2.971678871	-3.459431619	2.33E-22	4.13E-18
14	LTBP2	-	23596	17424	1549	3017	882	2317	65.44567499	50.11377561	3.641265151	8.999191735	2.563320143	6.688331411	-3.401269662	2.41E-22	4.26E-18
11	PRR5L	+	417	374	3196	1892	2192	1866	2.418650654	2.359135306	12.8052604	11.19085867	10.97496605	9.62121936	2.531391319	3.97E-22	7.03E-18
12	PHB2	-	87869	93112	44393	34936	37849	37092	906.8607871	1006.557505	384.9048604	391.6742749	402.6947611	402.2264322	-1.23038071	5.21E-22	9.23E-18
12	LIMA1	-	6672	5668	26347	32799	21051	32944	33.15729857	29.55618228	104.1958156	156.0981004	91.72715254	147.6092384	2.196707528	5.83E-22	1.03E-17
17	DLX3	-	741	852	77	28	55	21	7.047589808	8.402890485	0.614751788	0.286395423	0.51038291	0.263698466	-4.137684664	6.15E-22	1.09E-17
1	PEAR1	+	1159	855	6204	3965	4672	3561	5.61182471	4.671327916	25.20199246	21.20734901	21.85850195	17.11682593	2.191726984	6.66E-22	1.18E-17
3	HEG1	-	5946	3935	22110	13851	16637	15040	15.78801534	10.83462961	49.28083316	39.55208615	43.06570502	39.83017329	1.77510504	8.10E-22	1.43E-17
1	COL9A2	-	402	273	2407	1674	1830	1811	5.012313182	3.882140684	18.88313571	22.05274841	21.80968409	23.32074522	2.516015147	9.74E-22	1.72E-17
11	RRAS2	-	16174	16319	130301	126297	58482	134665	140.2442261	137.3258544	887.6187801	1011.619212	424.9830832	1050.662376	2.790906387	1.07E-21	1.90E-17
11	SYT8	+	131	161	2	0	3	0	1.515546794	1.674851382	0.135899613	0	0.321630081	0	-6.867896464	1.13E-21	2.00E-17
16	LITAF	-	7026	5545	22576	22429	33461	29237	52.32949559	44.05858978	132.0801925	158.0452151	214.2929229	183.8793125	2.098887113	1.23E-21	2.18E-17
14	RAD51B	+	646	587	3158	3325	2549	3478	3.969800798	3.524213294	12.67409206	17.16595545	11.85972565	17.29567979	2.342837085	1.29E-21	2.28E-17
12	LPCAT3	-	6880	6931	2677	2202	2369	2263	37.60718219	39.2866459	12.43871829	13.16465469	12.63451106	12.8206219	-1.538148842	1.45E-21	2.57E-17
16	MPV17L	+	2087	2251	17	85	18	10	8.968348783	10.03072291	0.072027326	0.409304812	0.089890667	0.048265649	-6.060446525	1.48E-21	2.63E-17
19	TNNT1	-	4583	4091	16636	10013	12548	14821	73.23197479	74.26708905	214.7717345	153.7104964	211.3227164	269.3776914	1.638670877	1.51E-21	2.68E-17
11	PVRL1	-	5467	5730	1136	1409	840	1372	22.08190892	25.12793295	4.032742019	6.127170346	3.465977621	5.786970667	-2.234988314	1.56E-21	2.75E-17
19	SBK2	-	0	2	161	170	223	203	0	0.090615284	3.216436981	4.351079905	5.178194904	4.818593266	7.56414949	1.60E-21	2.84E-17
10	PLXDC2	+	7962	3405	786	296	505	825	16.48988491	7.312725395	1.366484348	0.65928439	1.020464386	1.704162971	-3.236549733	1.83E-21	3.24E-17
12	ITGA5	-	12801	12324	40639	47949	39613	52815	50.27364628	48.68655749	119.9796364	186.1786702	142.4730962	192.4485809	1.848921721	2.34E-21	4.13E-17
4	FGF2	+	4018	5732	24906	22601	15510	24793	15.31414933	22.65457007	79.68445253	92.6395062	57.67741215	94.24834885	2.170911122	2.62E-21	4.63E-17
15	GABRB3	-	1543	1597	6699	5145	4737	5064	5.734537024	5.867532378	19.61467594	19.42587446	17.7386543	18.65289506	1.785197336	2.90E-21	5.13E-17
8	PLAT	-	3432	2191	13676	14921	9998	16191	13.55692018	16.04704731	42.85065289	64.17191797	41.89839904	60.20674596	2.284395322	4.27E-21	7.55E-17
16	KIAA0513	+	337	301	2150	1412	1964	1629	1.09391093	0.997626163	5.72241834	4.853499222	6.098313522	5.170589389	2.487323438	4.50E-21	7.95E-17
10	ADAM8	-	1085	834	4536	7470	8626	7149	7.720314897	5.429580591	22.6392547	43.56212797	45.47531242	38.66427541	2.855671915	4.73E-21	8.37E-17
1	GPR153	-	253	175	2010	1108	2001	1643	1.661918499	1.19204856	10.67337986	7.537800444	12.35029571	10.36617492	2.981767314	5.01E-21	8.85E-17
8	DEFB103A	+	4	6	437	345	276	189	0.199398771	0.663888013	18.28649983	18.49554832	13.42402	9.396930484	5.962317655	5.09E-21	8.99E-17
10	VWA2	+	967	401	22	6	0	4	7.4138985	3.18809484	0.264634708	0.387490153	0	0.318941798	-6.417852515	5.57E-21	9.86E-17

	6	EDN1	+	555	412	2934	3158	2723	4561	7.049330123	5.426487163	31.28251344	43.13726663	33.74531845	57.77988369	2.789987053	6.34E-21	1.12E-16
	9	UGCG	+	5243	4243	14374	16940	17921	17175	31.22358952	26.20249826	67.98399664	107.7969665	97.83489936	108.2825948	1.807528725	6.93E-21	1.22E-16
	1	DIRAS3	-	447	409	15	0	0	4	7.085633477	6.722969891	0.184319629	0	0	0.447905221	-6.493539473	1.04E-20	1.84E-16
	4	ACSL1	-	7009	6662	20011	16397	16964	15945	43.38144411	34.78688604	79.98491664	88.69240022	83.34576083	78.02703842	1.34209044	1.28E-20	2.26E-16
	2	FN1	-	468077	149424	4107875	2996957	2098837	3470669	698.0508343	243.3758534	5142.492097	4806.576863	3053.932853	5162.317011	3.359325112	1.28E-20	2.26E-16
	5	MYO10	-	22624	24952	69923	56618	58336	56598	59.57578149	68.80897277	149.1488028	159.0902647	145.7061538	147.4912509	1.343567948	1.34E-20	2.36E-16
	12	C12orf57	+	9495	8385	4165	2855	3205	3154	135.8344747	126.563476	53.61074317	52.64522867	52.29787058	63.65975813	-1.418376449	1.89E-20	3.33E-16
	20	VSTM2L	+	469	238	12	0	0	2	6.160012224	3.329614592	0.325139825	0	0	0.057680964	-6.658211483	2.31E-20	4.08E-16
	11	DSCAML1	-	2363	1987	523	183	222	255	8.844429438	7.712064706	1.979144886	1.600608931	1.025889053	1.445610897	-2.878565327	4.02E-20	7.10E-16
	1	CEP170	-	6013	5508	21672	33970	22951	26571	17.89838992	17.8339426	49.99063739	91.91768835	57.1944286	68.3845462	2.190303072	5.25E-20	9.27E-16
	5	PLCXD3	-	779	487	41	6	36	26	2.612056574	1.687410668	0.121193989	0.025154101	0.1177765	0.106440678	-4.537877365	6.89E-20	1.22E-15
	7	INSIG1	+	7729	5165	25840	15853	19949	20031	57.38336003	39.78776101	161.0429957	128.5371776	144.5089751	143.4221283	1.663159333	7.19E-20	1.27E-15
	7	SEMA3A	-	1433	1050	84	90	102	190	4.498860518	3.418317001	0.239702873	0.313040016	0.311342906	0.603746396	-3.413682402	8.55E-20	1.51E-15
	11	RCOR2	-	706	676	51	44	15	59	6.680260682	6.951278019	0.470615328	0.482767924	0.326351766	0.654119011	-4.031662464	9.90E-20	1.75E-15
	21	ADAMTS1	-	471	447	4187	2675	1834	3276	2.083643706	2.303105057	13.10954257	12.32742971	6.569014727	12.05657424	2.70502622	1.08E-19	1.92E-15
X		DCAF12L1	-	101	89	0	0	0	0	0.771836703	0.705278683	0	0	0	0	-144269510.7	1.29E-19	2.28E-15
	19	MATK	-	701	913	67	73	22	58	7.782167109	9.986614981	0.915117341	1.198828691	1.059800842	0.888616248	-3.87506515	1.37E-19	2.42E-15
	20	WFDC2	+	1917	1288	4	20	36	66	47.87335	27.67940583	0.215681476	0.986505422	1.611006802	2.290836003	-5.668828718	1.52E-19	2.69E-15
	19	PSG1	-	9	28	3339	1288	687	4041	0.349998896	0.811418682	15.42871991	8.119846625	4.31311309	22.9036394	6.982068572	1.64E-19	2.90E-15
	19	AMH	+	72	31	766	726	644	790	0.719502375	0.485427668	6.418170498	7.793240301	6.271807307	7.864744751	3.828213527	1.69E-19	2.98E-15
	12	SLC2A3	-	486	218	23	8	4	7	3.180324487	1.491401635	0.216102181	0.123835575	0.212610602	0.100491556	-5.067114196	1.80E-19	3.18E-15
	5	ADAMTS6	-	78	98	1128	886	626	1019	0.393537902	0.442816068	3.042622556	3.173933576	2.085923435	3.430125038	3.377802082	1.86E-19	3.28E-15
	2	TFCP2L1	-	1798	1802	417	311	198	321	4.996578686	5.192835057	0.972760132	0.929456489	0.548365677	0.889712723	-2.529535441	2.07E-19	3.66E-15
	14	TMEM229B	-	114	76	1588	716	907	857	0.755769974	0.487784769	8.006854967	4.625124769	4.43283826	5.134135737	3.420248356	2.30E-19	4.05E-15
	5	UNC5A	+	2146	1575	254	87	223	76	13.92319451	10.59369154	1.444307723	0.746601083	1.620052327	0.649849209	-3.53954658	2.55E-19	4.50E-15
	7	IL6	+	2046	2014	9410	4990	7277	8377	19.72082869	19.99573914	75.23830705	51.11506339	67.62793483	79.58165517	1.888005385	2.95E-19	5.21E-15
	6	MUC22	+	0	0	132	147	302	123	0	0	0.475366417	0.714172282	1.264112913	0.526301658	144269511.5	3.65E-19	6.45E-15
	5	ADAM19	-	15649	12328	5525	4994	5167	5943	60.97641184	49.69209603	16.92479305	19.58260624	17.01689404	22.08647791	-1.371274304	4.53E-19	8.00E-15
	9	ACO1	+	8260	8059	23000	18787	18316	20982	28.31044372	28.64273484	66.17304647	69.24839232	61.25030944	71.72577285	1.312882399	6.10E-19	1.08E-14
	11	EFEMP2	-	2745	2071	590	273	381	543	14.64499514	10.58297462	3.005601205	2.261707889	2.75439018	3.405093929	-2.430295758	7.02E-19	1.24E-14
	12	KRT4	-	2256	704	158	42	52	79	17.58899445	5.889059301	1.480037234	0.685279295	0.572599008	1.290995855	-4.160694054	7.27E-19	1.28E-14
	11	SORL1	+	5581	5161	423	1093	773	580	9.441389398	10.59128985	0.841187438	2.785933868	1.788523967	1.517127679	-2.904642753	7.38E-19	1.30E-14
	8	MTUS1	-	1463	984	164	106	98	213	5.196395045	4.186935873	0.620828168	0.494811486	0.483557956	0.904189747	-3.074404033	9.25E-19	1.63E-14
	14	PTGER2	+	274	189	18	10	7	5	2.86100549	2.046428759	0.186326547	0.151749331	0.128168964	0.17567906	-4.532940288	1.04E-18	1.83E-14
	17	KRT33B	-	12	8	2405	839	3751	468	0.295955768	0.258713203	32.43979589	14.49852961	58.80773538	7.500391724	7.543611876	1.04E-18	1.84E-14
	17	RASL10B	+	1719	1823	330	295	248	129	13.84969112	15.23061981	2.231849035	2.339288307	1.949516499	1.036610601	-2.821681704	1.43E-18	2.52E-14
	12	EMG1	+	16123	19684	8969	6956	6802	6423	129.1747986	163.5354813	60.32017981	62.07230327	56.83980499	52.3320076	-1.296745768	1.95E-18	3.44E-14
	5	FABP6	+	0	0	97	123	254	245	0	0	2.400195057	4.45917193	7.255517595	6.719770823	144269511.6	2.01E-18	3.54E-14
	12	NCAPD2	+	81301	85269	42773	35952	36035	37607	324.4268071	355.6990757	153.4249627	157.673978	150.236411	159.0918807	-1.128578114	2.08E-18	3.66E-14
	12	TPI1	+	169303	181656	92276	72023	83822	74988	1619.172557	1801.544215	741.0794743	740.7732971	782.1634592	715.289708	-1.119281564	2.18E-18	3.84E-14
	5	CDH6	+	4251	2390	203	12	42	55	8.867430367	5.169770697	0.361355476	0.098214421	0.098700025	0.176422999	-5.411782564	2.24E-18	3.95E-14
	18	GNAL	+	1404	1444	339	275	317	262	5.104799447	5.489950737	1.088455051	1.453241693	1.447374224	1.699670568	-2.255355103	2.54E-18	4.48E-14
	14	FOXN3	-	2759	2530	13475	8193	6885	8609	8.240028504	7.693963177	32.46820176	25.87814555	18.33648453	23.6679038	1.812761267	2.77E-18	4.88E-14
X		GYG2	+	147	110	2	0	0	4	1.275488809	0.920453068	0.156505331	0	0	0.062548999	-6.420662048	3.84E-18	6.76E-14
	4	EREG	+	209	315	0	11	8	4	1.190826881	1.534976743	0	0.073166803	0.050263055	0.027117189	-5.509861045	3.94E-18	6.95E-14
	1	ABCA4	-	1891	1371	210	38	111	50	7.986533896	6.573145109	1.084832592	0.513011594	0.732662708	0.427674364	-3.995584034	4.20E-18	7.41E-14
	2	MARCO	+	296	289	1681	1384	2536	2080	5.285860079	4.910215718	22.70239029	22.50225798	37.27706404	31.36385506	2.71478562	4.59E-18	8.08E-14
X		PLCXD1	+	1738	1577	6539	7502	5453	5247	7.835000122	7.306980384	22.9018077	34.3951622	22.53688079	22.31040531	1.899823038	4.68E-18	8.25E-14
	7	TSPAN33	+	1453	1351	300	211	186	111	19.57202429	16.04234107	3.392173451	3.056597251	2.444522841	1.491265036	-2.795059151	8.10E-18	1.43E-13
	8	SNAI2	-	320	208	3999	1422	1817	2004	4.110987589	2.770934246	41.08164807	18.76859386	20.77048345	24.46071973	3.129595255	8.37E-18	1.48E-13
	7	CPVL	-	10479	8202	2959	3575	2497	2671	114.4144665	96.92120433	29.47575806	55.80562466	36.30138942	32.1600765	-1.674816562	1.26E-17	2.21E-13
	1	NID1	-	353	189	17	20	12	20	1.554436511	0.87090317	0.123241405	0.166387823	0.10152192	0.161825638	-3.973624585	1.49E-17	2.62E-13
	11	TP53I11	-	7345	5197	271	917	234	347	36.39678068	24.603804	1.588907991	5.956773575	1.824660907	2.279803297	-3.825761472	1.51E-17	2.66E-13
X		SLC16A2	+	4409	4751	12015	11342	11761	13048	26.04067218	30.57357732	59.56930468	72.04226614	67.7746627	76.86307667	1.394595615	1.52E-17	2.67E-13
	20	PROKR2	-	128	79	0	0	2	0	1.866309442	1.194448619	0	0	0.072293706	0	-7.693486957	1.54E-17	2.71E-13
	1	KCNQ4	+	228	238	0	8	10	2	1.465998033	1.58687309	0	0.226926477	0.117675649	0.044327969	-5.54225805	1.56E-17	2.75E-13
	1	FBLIM1	+	6244	5006	18861	12367	14571	19044	40.4397911	31.21675441	86.9667765	79.97977838	79.73652622	106.9959979	1.527025838	1.62E-17	2.86E-13
	4	TBC1D9	-	2152	1795	7273	4803	5870	5285	10.2299792	9.058497105	29.02236069	25.13756559	27.00216759	25.65261928	1.557222833	1.71E-17	3.02E-13
	4	ERVMER34-	-	3107	3425	9963	10536	13096	9411	19.67853604	22.49462756	52.96979935	71.76503917	80.9284501	59.44961297	1.718941256	1.90E-17	3.35E-13
	1	RAB3B	-	8549	8538	26792	18391	20090	18425	17.18728446	17.79978662	45.21512613	39.76334609	39.40786511	36.94546775	1.292294027	2.15E-17	3.79E-13
	2	AOX1	+	763	913	3820	2859	2663	3053	4.079994497	5.388413814	18.62818347	17.91398802	14.43782462	17.41498157	1.886664217	2.15E-17	3.80E-13
	15	SMAD6	+	686	380	36	18	4	6	5.657613729	3.249821231	0.258132842	8.769513988	0.057918061	0.167056542	-5.057991723	2.22E-17	3.91E-13
	12	NDUFA9	+	18151	19895	9719	7993	7815	8678	99.32139808	102.9220951	53.74207418	45.92729777	40.40506773	44.78020172	-1.153537553	2.41E-17	4.25E-13
	3	PHLDB2	+	10957	8618	30480	35478	26779	27381	25.5470155	20.38358844	56.84771339	83.27517437	56.94941076	60.39614075	1.617368146	2.55E-17	4.50E-13
	20	SLC13A3	-	128	77	0	2	0	0	0.783788006	0.581776205	0	0.043323132	0	0	-7.6794801	2.74E-17	4.83E-13
	4	MFSD10	-	24668	20125	10225	8749	10153	10275	201.6399396	170.5867149	70.16048778	76.91068269	80.97445402	83.76954842	-1.185004432	2.84E-17	5.00E-13
	7	MEST	+	32030	30230	15193	13706	14537	12122	205.5886576	198.8852981	89.29590321	124.0199965	108.4222494	87.23013627	-1.164310911	3.07E-17	5.41E-13
	22	KIAA1644	-	108	61	0	0	0	0	0.419367099	0.257753796	0	0	0	0	-144269510.5	3.19E-17	5.61E-13
	8	GSDMC	-	874	738	166	117	119	131	7.692076024	6.890268684	1.254607415	1.14485727	1.160715605	1.330380946	-2.596644306	3.38E-17	5.96E-13
	3	ZBED2	-	7506	6431	22073	13492	19267	17632	83.86888308	74.51393638	207.0333583	162.1265954	210.0474532	196.4968539	1.378344396	3.63E-17	6.39E-13
	11	SYT13	-	124	78	0	0	0	2	0.622462181	0.430726271	0	0	0	0.227916374	-7.658211483	3.69E-17	6.49E-13
	5	TENM2	+	595	355	38	19	45	49	1.600768261	1.087616689	0.300835485	0.111221	0.259023541	0.287793149	-3.653378964	3.84E-17	6.76E-13
	1	PINK1	+	7340	5754	17073	15721	16227	15329	39.61841836	32.20606233	77.35663653	91.2571439	84.53863128	81.63595952	1.297034264	4.33E-17	7.63E-13
	1	CADM3	+	84	77	0	0	0	0	0.593937521	0.573522913	0	0	0	0	-144269510.4	4.73E-17	8.33E-13
	7	CPED1	+	52	84	901	786	704	526	0.309746556	0.461290522	2.693059226	3.110634219	2.449499639	1.894935433	3.42280683	4.80E-17	8.44E-13
	16	CLDN9	+	179	175	1186	1104	1825	1090	2.254713757	2.2858258	12.54035229	14.95522971	22.42912214	13.6938828	2.878076898	4.95E-17	8.71E-13
	3	CLDN16	+	1038	908	153	187	167	129	7.897284073	6.793335957	0.955742426	1.449347995	1.239675166	0.957445815	-2.613413039	4.95E-17	8.72E-13
	12	NOP2	-	34273	39328	17485	16352	14605	15574	192.3081772	225.0648942	85.32297532	105.3345226	81.98831881	93.3445113	-1.201292834	5.05E-17	8.89E-13
	3	MB21D2	-	4514	4209	12196	10073	9808	12138	34.60841554	33.46307028	78.49179155	83.05477898	73.36883827	92.81731904	1.341639594	5.54E-17	9.76E-13
	5	GPX3	+	4092	3263	184	523	560	473	41.03464083	40.65739985	1.556138064	5.635924233	5.418141156	4.756697482	-3.079638035	5.80E-17	1.02E-12
	8	PPP1R16A	+	10239	8748	4762	3320	3933	3887	54.41302729	43.29826078	19.77973764	19.12797173	20.55796756	18.69080222	-1.255803748	6.23E-17	1.10E-12
	8	TONSL	-	19135	20071	9265	8848	8527	8643	69.80879685	75.93069853	28.37355638	35.15668754	30.35211596	31.44907848	-1.152101224	6.47E-17	1.14E-12
	17	KRTAP2-3	-	1511	706	13768	7310	17857	6617	45.90265263	22.24050877	351.100009	238.8230976	529.2889668	200.4915986	3.360833723	7.44E-17	1.31E-12
	5	CD74	-	1242	1320	65	39	168	114	19.15836252	16.34091438	1.116433631	0.848108831	2.181779315	1.552627565	-3.730597723	8.22E-17	1.45E-12
	1	SESN2	+	753	690	2855	2829	2446	2821	5.631066324	5.35071051	17.92208131	22.75172055	17.84691448	21.04071421	1.923919412	8.23E-17	1.45E-12
	4	ATP5I	-	16749	14507	8435	6604	6633	7095	386.1562823	346.8314974	165.7633379	182.1190892	149.2090766	180.0281121	-1.119718385	8.29E-17	1.46E-12
	14	TNFAIP2	+	30963	23199	6177	6087	5901	10754	158.9840814	123.5226419	26.63468869	34.62449137	29.56291449	55.07346053	-1.905263348	8.93E-17	1.57E-12
	1	NBL1	+	12764	11436	1995	3629	2227	1466	119.2020995	121.7089323	21.39712853	38.77560337	24.51194043	16.49461364	-2.377069649	9.78E-17	1.72E-12
	6	COL12A1	-	1197	1138	8493	5876	3299	5959	2.552361893	2.599336108	15.18803474	13.46236036	6.857204989	12.67311022	2.338942002	1.04E-16	1.83E-12
	19	ZNF610	+	134	97	1	0	0	4	1.217082964	0.845216792	0.018670102	0	0	0.492910052	-6.529820947	1.12E-16	1.97E-12
	7	ELN	+	248	266	2	3	0	14	2.136767073	2.26835452	0.047431047	0.46283546	0	0.788979656	-5.757697036	1.18E-16	2.08E-12
	8	RP1L1	-	16	17	348	258	418	243	0.059038904	0.065047997	0.97106642	0.922334311	1.35572103	0.805658561	4.26280669	1.23E-16	2.16E-12
	6	PPP1R14C	+	1107	1204	8	77	25	18	13.28304361	14.98108136	0.107573143	0.993633749	0.309512978	0.2154191	-5.174301544	1.30E-16	2.29E-12
	8	SCRIB	-	39612	37686	17607	16319	17492	18408	169.0688663	162.97014	63.03040907	74.90590294	72.84292259	78.2972354	-1.146666757	1.31E-16	2.30E-12
	1	S100A9	+	10923	7820	910	321	1717	1006	488.8305787	362.9024352	34.18570087	15.44923911	74.97176758	44.90308062	-3.244967113	1.54E-16	2.71E-12
	1	FAM19A3	+	4642	4520	810	938	1183	1441	93.49951448	107.679013	15.62059659	20.31854892	23.24877035	33.0180666	-2.067369162	1.54E-16	2.71E-12
	12	USP5	+	38740	40310	22583	15724	16768	18162	283.4654957	288.7569485	130.9547472	125.1884997	120.3586802	141.7007395	-1.110192767	1.70E-16	2.99E-12
	14	RIPK3	-	188	50	0	0	0	2	1.792674472	0.737247151	0	0	0	0.246455026	-7.894817763	1.70E-16	2.99E-12
	1	PIK3R3	-	3281	3629	636	485	841	997	11.4335282	13.11377424	2.469268958	2.413279323	3.706867339	3.507346888	-2.223576014	1.92E-16	3.38E-12
	4	PALLD	+	11884	8899	44281	32823	23120	36477	51.10246814	39.08905678	123.4037594	127.0027726	95.74186709	142.8602081	1.717547971	1.96E-16	3.45E-12
	7	MNX1	-	103	101	800	634	786	709	0.732089321	0.7185065	4.922165962	4.428134033	4.712699693	4.345544051	2.843767136	2.21E-16	3.88E-12
	19	ABHD8	-	688	687	2380	2679	2574	3156	8.301697601	8.596108852	27.13550131	30.88453446	30.30386603	37.98194415	1.972057628	2.21E-16	3.88E-12
	3	STT3B	+	32463	32552	14981	13854	15932	13913	167.3181949	173.9798266	65.62812884	78.10136991	80.47243098	72.74118091	-1.147903738	2.24E-16	3.94E-12
	2	MEIS1	+	6024	5657	2873	1725	1748	1979	15.07730698	14.42220804	6.415485169	5.094487946	4.494767804	5.162387813	-1.48864161	2.44E-16	4.28E-12
	12	ANKRD13A	+	16086	15834	38593	33091	36205	35034	61.32806095	58.05615673	123.511209	125.8134301	124.1205161	123.5329836	1.162705545	2.54E-16	4.47E-12
	11	CHORDC1	-	20954	28071	73411	58457	56822	62802	50.781524	70.54453461	149.3435928	152.3564853	134.3588661	151.8007755	1.358922973	2.73E-16	4.80E-12
	22	PNPLA5	-	41	144	0	0	0	0	0.54855325	1.520450149	0	0	0	0	-144269510.6	2.86E-16	5.03E-12
	1	UAP1	+	15807	16307	44191	36875	32541	35437	119.8738853	128.2377524	281.3167698	300.7411032	240.7781353	268.0364159	1.21446402	2.90E-16	5.10E-12
	12	MRPL51	-	22545	22052	12360	9618	9418	10524	400.660815	406.3884086	184.3876229	193.6860678	163.3038185	186.5388069	-1.089307948	2.96E-16	5.19E-12
	7	ATP6V0A4	-	238	197	1282	1013	1378	1108	2.128001907	1.838631179	9.403931326	8.810253457	10.87310463	8.953888183	2.4582251	2.99E-16	5.25E-12
	10	TSPAN15	+	7500	4989	2012	1517	2267	2113	79.69796541	53.6504167	22.13811602	21.49351205	33.63698816	25.25260539	-1.659090765	3.19E-16	5.61E-12
	8	CPSF1	-	42495	39628	23022	17876	19775	18852	182.6417898	176.6164588	83.06002062	81.48699959	83.16114126	80.291844	-1.046377864	3.37E-16	5.91E-12
	4	NUDT6	-	3009	4755	16851	17347	11255	18640	7.469604081	12.70823061	35.32856947	46.34677737	26.30205741	45.54694649	2.045294776	3.41E-16	5.98E-12
	19	PSG6	-	0	2	273	154	71	219	0	0.270472894	3.077246396	1.523548149	1.378119648	1.955702669	7.485829309	3.74E-16	6.57E-12
	19	HPN	+	127	44	0	0	0	0	1.544706491	0.688591424	0	0	0	0	-144269510.5	3.79E-16	6.66E-12
	7	UPP1	+	15179	20125	51913	48952	41346	48875	85.93603927	118.1502811	246.7146642	297.0074913	227.5914045	275.0171819	1.436318525	4.22E-16	7.42E-12
	19	FAM71E1	-	94	60	0	0	0	0	3.934005242	1.777222335	0	0	0	0	-144269510.4	4.33E-16	7.61E-12
	10	ANKRD2	+	1558	2124	6462	5986	8709	6315	27.72632347	37.68983318	92.82321851	110.1603605	145.4059971	107.7799765	1.899400413	4.44E-16	7.80E-12
	5	STK32A	+	260	152	12	2	6	14	1.100796296	0.804680923	0.075068358	0.017864347	0.044382307	0.11359915	-4.599037686	4.56E-16	8.01E-12
	3	SUSD5	-	547	694	60	96	53	67	2.822120083	3.712909222	0.270049689	0.532653797	0.277263473	0.405154934	-3.168762943	4.86E-16	8.54E-12
	16	PRKCB	+	89	63	0	0	0	0	0.304071253	0.260611685	0	0	0	0	-144269510.3	5.03E-16	8.82E-12
	21	CLIC6	+	89	63	0	0	0	0	0.603828305	0.443231592	0	0	0	0	-144269510.3	5.05E-16	8.86E-12
	19	REEP6	+	110	70	745	729	689	678	2.065771263	1.363183386	11.7444446	14.72321676	12.62466294	12.69933458	2.98033002	5.07E-16	8.90E-12
	5	ADAMTS12	-	63	32	871	443	437	602	0.22513076	0.144373737	2.102426042	1.35950564	1.26521877	1.742832647	3.630429997	5.10E-16	8.95E-12
	8	LOXL2	-	1957	858	12074	10778	6339	6840	11.90714645	5.99230792	52.04133692	64.2564267	31.67533222	38.7593231	2.678031865	5.21E-16	9.15E-12
	14	CFL2	-	4505	3639	11507	8738	9409	9957	32.66743731	27.36333482	70.04369502	68.93618614	66.56941845	72.8517206	1.282091657	5.40E-16	9.47E-12
	5	CCNO	-	174	145	5	11	8	8	2.483721668	2.146289881	0.086912544	0.198358054	0.14929989	0.152619557	-4.317412614	5.70E-16	1.00E-11
	12	MGP	-	346	118	10	3	0	0	4.837282466	2.382853958	0.351882928	0.064934047	0	0	-6.157541277	5.77E-16	1.01E-11
	16	ABAT	+	617	479	2751	2188	2175	3623	2.73797231	2.197754474	9.522619604	9.632377814	8.721586044	15.51267422	2.292271246	6.08E-16	1.07E-11
	2	TBC1D8	-	2373	1596	498	423	562	441	11.61409024	8.497872172	2.108740418	2.479789738	2.848939292	2.317436573	-2.044666763	6.16E-16	1.08E-11
	5	TCF7	+	7567	6728	1884	1807	2708	1348	27.13081635	29.54804354	9.859382438	8.74683992	10.40352502	9.225919131	-1.883800975	6.33E-16	1.11E-11
	12	COPS7A	+	14688	15789	8210	5876	6577	7232	135.1659316	135.8108435	61.59912232	58.88750269	60.10275004	67.19224645	-1.127714347	6.49E-16	1.14E-11
	14	ARHGEF40	+	2367	1960	8358	4894	5685	6768	8.122392991	6.554584783	22.52211719	16.95235183	17.66525851	21.28548002	1.570609986	6.60E-16	1.16E-11
	12	ZNF384	-	17605	16786	10008	7263	7669	7460	87.77732934	86.78811391	41.8871001	41.33929841	37.30749547	39.51644274	-1.086037253	7.81E-16	1.37E-11
	17	ALOXE3	-	323	521	2249	2141	1877	1982	2.32521647	3.711285289	12.9686879	17.45108402	12.57707631	13.6668055	2.288904333	8.47E-16	1.49E-11
	16	ZNF469	+	86	77	1	0	0	0	0.168298909	0.156257285	0.002164136	0	0	0	-8.348728154	9.95E-16	1.74E-11
	19	BCAM	+	7890	5682	2211	1976	2740	1807	42.06828223	34.28253074	10.55630182	12.04957668	15.56188829	9.415025741	-1.635918899	1.02E-15	1.78E-11
	20	TFAP2C	+	13627	12333	7054	5393	5397	5996	113.0714372	106.1177629	49.13316897	48.12477452	43.69342588	49.62219894	-1.122906148	1.04E-15	1.82E-11
	20	TMEM74B	-	288	288	5	2	17	0	3.365057262	3.489467491	0.100537979	0.093188348	0.417043874	0	-5.584962501	1.09E-15	1.91E-11
X		PTCHD1	+	633	608	61	8	12	36	1.191878017	1.187130264	0.096414999	0.183452536	0.024180779	0.067607103	-4.406922681	1.12E-15	1.96E-11
X		ZXDA	-	2332	1709	578	414	588	396	11.57133596	8.793539473	2.407517538	2.209229984	2.84671052	1.959800516	-2.032129405	1.22E-15	2.14E-11
	17	ABCC3	+	1123	897	72	60	164	135	3.712965955	3.307464116	0.700480773	0.688231168	0.888957497	0.92889775	-3.228595519	1.45E-15	2.54E-11
	17	STAT5A	+	741	669	72	41	122	58	4.398668121	4.278407033	0.541335817	0.430300541	0.836611725	0.749129344	-3.266722593	1.54E-15	2.70E-11
	12	RASSF8	+	2851	2522	10590	6124	7705	6348	12.41884673	11.33643298	38.28364187	28.53427208	32.3753362	27.29836112	1.517584034	1.56E-15	2.74E-11
	7	GIMAP2	+	22	20	411	213	312	296	0.323143969	0.36959029	4.254456167	2.820713965	4.181191058	3.640566793	3.874469118	1.63E-15	2.85E-11
	4	CYTL1	-	99	52	0	0	0	0	2.630032859	1.388229769	0	0	0	0	-144269510.3	1.72E-15	3.02E-11
	9	NOTCH1	-	5910	5721	16234	13282	12078	12020	15.8012893	16.34725934	35.61619382	37.33227076	30.79933566	32.0531884	1.204634634	1.74E-15	3.06E-11
	19	PGPEP1	+	633	440	2295	1791	2388	2549	2.313248673	1.639549021	6.782982448	6.682291896	8.268845934	8.729833577	2.07195711	2.29E-15	4.02E-11
	1	ATF3	+	594	453	2572	1668	2185	1873	4.867772654	3.152260364	14.48821259	12.03757092	14.28748214	15.28462375	1.986502215	2.33E-15	4.08E-11
	8	THEM6	+	2130	1541	536	490	397	422	18.00365299	13.50673461	3.805545286	6.023622195	3.27402929	3.557584351	-1.992552298	2.48E-15	4.34E-11
	19	CYP4F3	+	1074	1081	25	147	66	25	5.377734965	5.512424043	0.957155388	0.534040916	0.394595994	0.384625899	-4.034553165	2.79E-15	4.89E-11
	5	DUSP1	-	1657	1228	6626	3710	4597	4108	21.19231664	16.286246	71.13675029	51.02881303	57.36426758	52.40202689	1.722466024	3.08E-15	5.40E-11
	4	LRPAP1	-	13601	14528	7451	6458	6256	5942	41.36713038	44.59119558	19.02329673	20.55702478	18.06692956	18.7082564	-1.10762158	3.11E-15	5.45E-11
	5	ZNF454	+	106	58	0	0	1	0	1.16079174	0.67524146	0	0	0.279937293	0	-8.357552005	3.15E-15	5.52E-11
	10	SPOCK2	-	294083	216751	90081	57604	110854	95700	1155.485793	883.1256475	297.1081416	244.9725011	424.9688347	375.0320231	-1.528131496	3.21E-15	5.62E-11
	10	PPIF	+	34024	42290	94889	109314	105794	114907	328.5611512	423.4822626	769.1895508	1135.251956	996.7882342	1106.723299	1.477117273	3.37E-15	5.91E-11
	18	EPG5	-	10767	11214	27005	27822	26421	33176	20.86193366	22.68967964	43.10457036	57.57231676	49.13708494	64.86736699	1.380060757	3.62E-15	6.34E-11
	15	ARID3B	+	350	318	1768	1482	1229	1446	2.11607335	1.993684769	8.972874598	9.361994801	7.043645128	8.719522269	2.148895146	4.08E-15	7.15E-11
	12	DTX1	+	95	90	2	0	2	0	1.866897546	1.834028528	0.033789538	0	0.039274133	0	-6.531381461	4.09E-15	7.16E-11
	19	EMP3	+	1349	799	8466	8808	3579	8988	25.13280514	21.41609248	115.7784968	146.7302244	56.88996938	138.8613661	2.796229984	4.94E-15	8.65E-11
	19	CD37	+	151	109	897	649	945	914	1.674170571	1.528901519	4.694196415	4.512471915	5.745334646	6.25057326	2.71107127	5.00E-15	8.76E-11
	11	MICAL2	+	33221	30071	77902	59449	64030	64801	66.89833419	60.99118689	119.2684592	118.0736888	113.1907549	123.7612613	1.072317953	5.06E-15	8.86E-11
	18	GATA6	+	749	507	2652	2201	2651	2100	4.902606706	3.44127908	14.57153894	15.49354903	16.93035203	13.7096465	1.934798939	5.31E-15	9.30E-11
	3	BCL6	-	2424	1938	598	603	444	651	12.04635667	11.3976434	3.528100445	5.106857871	2.690306453	4.607368011	-1.925867128	5.38E-15	9.42E-11
	16	ATP2C2	+	2428	1834	492	475	670	499	11.44926184	9.757337866	2.326480425	2.619823361	3.353907961	2.972137039	-1.996618946	5.69E-15	9.97E-11
	8	LY6E	+	43162	39439	21004	19759	20066	18635	422.4925098	400.3225422	172.6516721	207.8446787	213.1323588	193.9135528	-1.055857831	5.86E-15	1.03E-10
	12	TSPAN9	+	2884	2182	573	477	209	542	14.64236218	11.4832967	2.873083814	2.751630843	1.058416177	2.820562986	-2.492048896	6.18E-15	1.08E-10
	5	DAP	-	14157	11187	30469	26515	30847	29098	111.8274846	105.6249105	202.0329425	240.9440229	231.2318688	222.9711104	1.205916637	6.22E-15	1.09E-10
	10	GFRA1	-	7737	8525	22689	15588	18284	22013	20.66038297	23.60624206	50.02100282	44.76533086	47.63739524	58.62822274	1.272547306	6.93E-15	1.21E-10
	19	DMPK	-	10259	8480	3760	2116	3922	2433	46.39393037	39.76662067	14.62963852	11.27645175	18.49031918	12.69465573	-1.615501603	6.99E-15	1.22E-10
	6	COL11A2	-	305	217	1442	975	1423	1365	1.506456186	1.381823825	5.202525833	4.339777919	5.620249117	6.237572932	2.317776452	7.63E-15	1.34E-10
	9	PTGR1	-	2226	1896	5554	5622	6319	5636	16.30640721	19.5264785	33.41338865	43.80574005	43.22648328	42.15876997	1.488411228	7.66E-15	1.34E-10
	1	BMP8B	-	930	728	145	158	120	168	4.967850835	3.799166326	0.636109757	0.880706577	0.638235754	0.913397601	-2.488213971	7.83E-15	1.37E-10
	14	SERPINA1	-	355	372	2730	1511	4737	2783	4.944368922	4.227918396	12.8502602	8.899398271	24.50126589	14.96969784	3.015911559	7.88E-15	1.38E-10
	3	CMTM7	+	14081	12714	6078	5284	6697	5763	97.63736963	91.41794982	35.12307577	39.11952929	45.30789598	39.8559272	-1.169669275	8.18E-15	1.43E-10
	8	TSTA3	-	25359	26218	13587	11224	13397	11679	180.7906318	193.8251174	81.51443503	89.02939517	93.55010874	83.11339927	-1.048063946	9.33E-15	1.63E-10
	8	RPL8	-	342294	356507	216469	173219	176127	173211	4093.915637	4421.548181	2288.86806	2228.028595	2055.306348	2066.22112	-0.919256551	9.53E-15	1.67E-10
	1	PTPN14	-	12559	10174	27165	30336	32464	28303	17.29048124	14.52480972	31.39412581	45.21682098	43.60789002	38.86388541	1.379199784	1.03E-14	1.80E-10
	5	ADRB2	+	1484	1483	4199	4862	5032	4529	18.77513814	19.4561582	44.59454929	66.15304288	62.11563022	57.14961192	1.649931195	1.05E-14	1.84E-10
	11	BSCL2	-	5628	6324	2486	2118	2577	1957	41.22752011	45.43509193	14.97263324	14.95097364	16.91217931	14.3840339	-1.387301706	1.07E-14	1.87E-10
	16	SCNN1B	+	334	178	9	14	2	0	3.116947967	1.722541864	0.201950202	0.287560493	0.259735633	0	-5.35614381	1.12E-14	1.97E-10
	11	DPF2	+	14201	15382	38408	28969	32720	29125	49.87083114	56.61594386	108.2756354	105.1048899	107.7030756	101.4335734	1.127011441	1.17E-14	2.06E-10
	17	HOXB5	-	217	190	14	8	2	0	2.745421143	2.492697274	0.148683899	0.108849104	0.041990594	0	-5.083922484	1.30E-14	2.28E-10
	1	LRRC8D	+	12706	13008	7581	5030	5658	5298	68.82654099	73.06751189	35.73850972	29.41329585	30.01677582	29.79205394	-1.125785929	1.51E-14	2.64E-10
	4	CASP3	-	2858	2749	7641	8594	6844	7352	27.60930729	27.53814762	57.8102014	89.28412901	64.50810887	66.0898615	1.440240768	1.60E-14	2.80E-10
	4	MYL5	+	13696	12027	7071	5503	5853	6110	82.15099659	74.80714801	36.79973917	36.06773952	34.56694042	37.8816326	-1.06810004	1.63E-14	2.86E-10
	14	SAMD4A	+	3891	3060	10500	7293	7824	8283	9.065591431	7.367115494	19.85326916	18.21454634	20.31752672	18.42184278	1.285992823	1.66E-14	2.90E-10
	8	DEFB4B	-	16	6	196	313	314	240	1.24444052	0.483918371	12.79666782	26.18087334	23.82839729	18.61774714	4.594494263	1.67E-14	2.92E-10
	9	SLC2A6	-	2269	2023	6657	4735	7079	5527	16.55097103	15.30211859	40.76187979	37.14450687	50.3815957	40.2105647	1.483192195	1.79E-14	3.13E-10
	12	MLF2	-	47190	45206	28082	20430	23172	22071	349.1538178	339.1630057	210.1156731	185.7098879	176.8030363	179.6550815	-0.978934764	1.88E-14	3.29E-10
	6	QKI	+	13473	12309	31477	23622	28016	26391	20.45518009	19.35383643	40.41553639	38.57152671	41.0876703	39.9628607	1.086573831	1.98E-14	3.47E-10
X		OPHN1	-	2470	2258	6833	5039	5633	5766	7.812431132	7.505219921	18.54413778	17.14033233	17.3326587	18.59280538	1.299231267	2.09E-14	3.66E-10
	6	KIAA0319	-	490	309	28	32	55	45	1.83082752	1.198440948	0.150378512	0.186064507	0.232889008	0.223305349	-3.320123598	2.14E-14	3.75E-10
	1	SH2D5	-	950	1362	4130	5418	4044	4381	5.811664002	8.432375512	20.24007052	34.01730759	23.03549111	25.50998971	1.958617936	2.39E-14	4.17E-10
	14	PRIMA1	-	603	418	83	26	18	30	4.011012596	3.075765128	0.512712178	0.222229399	0.134210836	0.263159573	-3.701146402	2.56E-14	4.47E-10
	19	FSTL3	+	1917	1269	11975	7097	4420	6543	15.76968586	10.95062203	82.56042002	63.4120321	35.85288318	54.64073348	2.236826492	2.91E-14	5.08E-10
	5	SQSTM1	+	60661	63258	142610	129039	124779	121669	211.8470223	229.3632849	403.3419492	479.4527026	410.193971	417.5813393	1.063824823	3.13E-14	5.47E-10
	1	RIMKLA	+	658	324	34	65	26	43	1.907169002	0.973811713	0.083748137	0.20683606	0.074252241	0.124306393	-3.547261792	3.14E-14	5.49E-10
	8	FZD3	+	2165	2140	262	499	318	510	4.05990812	4.161997918	0.435080744	1.006485596	0.597940542	0.954010794	-2.437894113	3.64E-14	6.36E-10
	18	SLC14A2	+	295	404	1987	1383	3240	2317	2.473224524	3.394362683	12.70507046	13.0234271	22.80159627	16.42987138	2.674811065	3.65E-14	6.39E-10
	6	TNFAIP3	+	4551	4038	13372	8553	8933	11222	23.39569237	21.5259377	57.70482107	47.28606442	44.8061289	57.53883387	1.292572628	3.71E-14	6.48E-10
	15	PAQR5	+	259	212	20	31	16	20	1.286636103	1.092090246	0.104261608	0.194459895	0.09694798	0.442898542	-3.436639754	3.75E-14	6.56E-10
	7	CREB5	+	2023	1499	5118	5047	4812	5706	5.464817536	4.31225268	11.01118694	13.69244179	11.5748752	14.51985609	1.553978645	3.79E-14	6.62E-10
	2	REEP1	-	527	350	72	27	22	46	3.0732313	2.054787498	0.420439429	0.208972532	0.155259339	0.295512425	-3.39272874	4.02E-14	7.03E-10
	3	B3GNT5	+	6737	6087	504	1576	1063	1090	23.48957096	20.76576406	1.451401372	5.87853877	3.656690446	3.786412157	-2.599093937	4.03E-14	7.05E-10
	1	ACP6	-	5186	3441	1621	889	1475	912	14.60982131	10.05226114	3.83338175	2.792719849	4.054295838	2.578282085	-1.81696076	4.64E-14	8.11E-10
	12	RP11-500M8	+	9186	10170	5121	4049	4004	4469	313.3450269	359.736095	146.6350546	148.5353326	133.2605058	152.0437053	-1.133684948	5.06E-14	8.85E-10
	22	AL022328.1	+	3142	2591	955	851	1058	943	482.9355141	412.9686404	123.2176719	140.6689203	158.6644586	144.5627432	-1.590635709	5.79E-14	1.01E-09
	16	BRD7	-	21417	21787	11364	9193	11647	9180	65.17001996	69.08887983	29.07529882	30.08375952	34.75114504	27.99938074	-1.062091792	6.41E-14	1.12E-09
	11	MDK	+	14389	11635	60501	35046	78285	38104	171.4604448	145.1086447	604.3405398	448.4939598	908.9125293	452.2356596	2.025714036	6.60E-14	1.15E-09
	5	NRG2	-	1797	2746	271	573	265	311	11.65889121	17.23608489	1.42163428	3.82874955	1.671215129	2.045369029	-2.677754376	6.65E-14	1.16E-09
	4	PPID	-	4691	5663	13004	12776	11389	12455	48.27286108	60.43727059	112.3453777	141.4073936	114.3637006	127.8489131	1.260849807	6.66E-14	1.16E-09
	5	F2RL1	+	2106	1824	469	545	594	387	18.66212372	16.76078014	3.518877998	5.238739895	5.180148039	3.449986477	-1.978140566	6.81E-14	1.19E-09
	9	FBP1	-	1002	572	182	65	85	100	17.79490033	10.53393332	2.713225502	1.660587209	1.472847518	1.771289561	-2.865332323	7.36E-14	1.29E-09

	9	DNAJB5	+	641	579	2219	1889	1454	2216	3.835919409	4.457670144	10.17107595	9.496337996	7.622262623	11.04763517	1.672518087	7.84E-11	1.35E-06
	11	FXYD6	-	543	347	101	67	71	36	6.941298243	4.740589454	1.18659882	1.387470955	1.229415328	0.925313181	-2.694373717	7.91E-11	1.36E-06
	11	COPB1	-	21053	19070	49657	32116	37258	35546	129.869453	117.8748594	248.6979098	203.6222418	230.7500811	221.2351962	0.945824287	7.92E-11	1.37E-06
	9	CHMP5	+	7328	6814	16993	11744	13099	12764	84.58857744	81.56335615	164.6580555	145.7900665	147.52833	146.9517563	0.948914787	8.41E-11	1.45E-06
	3	GPR27	+	3320	3360	51	180	14	296	35.03453512	36.76751266	0.451767636	2.042755608	0.144144254	3.115384906	-4.626147604	8.42E-11	1.45E-06
	1	DUSP10	-	747	493	1773	2709	2842	3062	6.071494861	4.272158751	12.20828613	23.2547993	22.13365095	24.37725897	2.066228105	8.66E-11	1.49E-06
	17	IFI35	+	3146	2385	7191	5411	8112	6200	44.15024725	38.40210907	84.02804973	84.2760295	110.1760749	86.07989829	1.282744575	8.80E-11	1.52E-06
	16	ZDHHC7	-	5744	5605	12503	9641	11337	10374	40.34885112	43.46482958	68.66351213	69.03862828	79.07763516	77.37552967	0.950176154	8.88E-11	1.53E-06
	4	GAK	-	28167	26280	17065	13808	15325	14535	50.05038809	49.45496788	26.26576307	33.59470144	28.13550327	28.22669186	-0.842371924	9.06E-11	1.56E-06
	6	UST	+	1054	1113	4104	2450	4077	2560	6.069700356	6.646431038	19.83904019	15.17324101	22.90753589	14.70375748	1.60578288	9.31E-11	1.61E-06
	17	SOX9	+	6682	4747	3045	2192	1686	2295	43.84842307	32.30229936	16.77341411	15.46940782	10.79483732	15.02076054	-1.310173505	9.32E-11	1.61E-06
	1	KAZN	+	10253	8309	4471	3334	5143	3566	21.56507368	17.94841629	8.676993816	7.604567188	10.94564748	7.712523183	-1.168662555	9.60E-11	1.65E-06
	4	FGFBP2	-	54	41	0	0	0	0	17.00482442	13.38840826	0	0	0	0	-144269509.7	9.61E-11	1.66E-06
	3	CELSR3	-	18	8	309	129	153	144	0.134998122	0.324076448	0.557274349	0.30813233	0.33362788	0.377240894	3.821160722	1.01E-10	1.74E-06
	11	DRAP1	+	73930	77526	158923	123284	150308	131296	1099.039072	1195.106204	1983.196947	1970.991603	2180.145836	1946.729663	0.896312893	1.05E-10	1.82E-06
	12	FZD10	+	234	57	0	8	4	0	1.841627841	0.465186998	0	0.067711375	0.03071546	0	-5.599912842	1.08E-10	1.86E-06
	21	BACH1	+	4705	3793	9548	8534	8193	8931	20.06824784	14.50506499	32.19700324	38.35414617	32.95822477	37.33991688	1.050626073	1.08E-10	1.86E-06
	10	FUOM	-	593	471	1819	1331	2040	1631	12.83531391	9.899435303	30.94868353	29.01259017	40.34261146	32.97148462	1.680485112	1.12E-10	1.93E-06
	17	TNFAIP1	+	9664	8148	19953	14020	17565	17217	65.68706729	57.43024505	113.846011	100.1124169	113.7924581	116.7191606	0.948615116	1.16E-10	2.01E-06
	11	APLP2	+	107482	100035	70167	48780	59302	50959	447.5754454	444.1417409	245.4711225	213.6635372	241.1355264	218.1559382	-0.856572129	1.17E-10	2.02E-06
	20	LAMA5	-	46321	35174	21913	15521	23408	19042	81.3401825	64.04948956	33.44029378	30.54281115	40.58002436	35.12269177	-1.028804974	1.18E-10	2.04E-06
	4	SETD7	-	10406	11430	23472	22059	22413	19236	20.03468514	35.46454377	37.93459578	70.145568	40.89817552	36.66206823	0.997288601	1.21E-10	2.08E-06
	12	CDCA3	-	11340	12646	7102	5846	5803	6371	51.799589	59.90087062	29.43458304	28.71823211	25.89035772	30.84832476	-0.933241264	1.22E-10	2.10E-06
	22	MAPK12	-	16829	13820	8921	6712	8814	7931	40.34544679	34.35666179	17.99139301	17.53297871	20.88825671	19.00440433	-0.920826131	1.22E-10	2.11E-06
	6	PSMB9	+	2485	2066	5561	4911	7470	5648	32.50659568	18.00810642	39.76910961	69.08768834	95.34034555	80.99203765	1.373919927	1.23E-10	2.11E-06
	16	MT1E	+	47778	41799	26730	13717	22547	14664	1172.747379	1063.920298	550.759666	362.093955	539.9782825	358.9968863	-1.205993797	1.26E-10	2.17E-06
	4	CCRN4L	+	1186	1190	3816	2690	2646	2858	17.33166892	18.03305696	46.81130252	42.22817599	37.68471846	41.6561995	1.33762941	1.26E-10	2.17E-06
	17	NTN1	+	12044	9580	2517	307	1922	884	48.35979843	40.18829738	9.163329305	1.442543009	8.128848909	3.823819683	-2.94142659	1.29E-10	2.22E-06
	10	ADK	+	7354	7527	15757	12907	13270	14785	63.98113996	73.61179616	114.9995113	120.7645004	120.8272891	128.2090993	0.930360618	1.32E-10	2.27E-06
	2	EFR3B	+	281	352	1341	2958	1348	1902	2.307894899	1.510245059	8.350330474	12.23838461	5.37543406	7.753269153	2.576008142	1.33E-10	2.30E-06
	22	RNF185	+	2587	2670	6257	4821	6017	5632	20.41622195	20.77712877	39.34628927	38.83950835	43.97866037	42.16558919	1.112095619	1.36E-10	2.34E-06
	1	PDE4B	+	2386	2836	376	120	645	151	11.39057643	16.08537421	1.874464494	0.960627073	3.031783556	0.973938663	-3.014996388	1.41E-10	2.42E-06
	4	PROM1	-	1731	1400	0	16	43	0	8.323673317	6.403748397	0	1.230808981	0.873675261	0	-6.729764744	1.52E-10	2.61E-06
	7	HOXA1	-	125	100	748	572	413	609	1.454604596	1.054620579	6.385836663	7.158410547	4.689170429	6.177440363	2.379744169	1.58E-10	2.72E-06
	1	GSTM4	+	837	507	74	144	37	76	5.846127088	6.93706999	0.99690686	1.611159701	0.713775793	1.421456657	-3.021630016	1.60E-10	2.75E-06
	8	TRIM55	+	2270	1606	6336	3719	4560	5740	19.5387532	15.07310456	45.7796874	33.54241788	38.41065365	49.27703941	1.392742746	1.63E-10	2.80E-06
	7	HIPK2	-	11633	12316	34819	24669	30257	19435	19.76113176	21.69484061	49.65043342	45.06685603	50.14838766	32.92807601	1.18867128	1.63E-10	2.80E-06
	4	UCHL1	+	361	417	87	20	17	26	7.665948048	7.947282907	1.922335359	1.032346752	0.899798442	2.64671267	-3.374807654	1.71E-10	2.94E-06
	7	CNTNAP2	+	3766	3888	1808	554	680	936	15.78928109	16.90343604	6.457437295	2.441233054	2.706075238	3.974651113	-1.944170625	1.75E-10	3.01E-06
	3	SEMA3F	+	10735	10264	4009	805	2523	2279	60.88308399	60.3905174	20.64600554	5.711536214	15.27646266	14.1058928	-2.126811825	1.79E-10	3.09E-06
	19	LRFN1	-	2721	3018	931	988	415	798	20.78143895	23.90193204	5.968750416	8.115021028	3.092474976	6.078713715	-1.873715162	1.81E-10	3.11E-06
	4	TMEM154	-	2418	1648	5241	4215	5398	5613	5.608365799	4.018961167	10.20424458	10.51388556	11.75141586	12.98484599	1.331617531	1.86E-10	3.21E-06
	2	TRPM8	+	615	309	37	50	89	73	3.980104408	1.950503607	0.359485239	0.430277775	0.618223799	0.832631606	-2.891747109	1.88E-10	3.23E-06
	6	PPARD	+	5203	3677	10138	8616	12042	10810	30.22555648	22.15534525	49.29366755	53.84055347	68.25431709	62.46504102	1.228160013	1.92E-10	3.31E-06
	19	FXYD3	+	2242	1073	341	96	276	64	21.90436612	15.90012403	10.6505937	2.022710358	9.435064259	2.975254899	-3.093022367	1.97E-10	3.39E-06
	21	URB1	-	6475	6578	16237	13813	10898	12477	15.43559469	16.26088432	32.49197036	34.75795333	25.34786704	29.66576099	1.03313358	2.03E-10	3.49E-06
	13	FLT3	-	156	148	6	22	7	4	1.193203188	1.314417527	0.308189408	1.073713195	0.240273153	0.318941798	-3.962525295	2.29E-10	3.94E-06
	12	HOXC10	+	137	173	12	8	7	26	1.605825369	1.987296978	0.139246178	0.215063912	0.129581554	0.495646414	-3.548203951	2.41E-10	4.14E-06
	9	KLF9	-	805	667	118	134	198	188	4.009030538	3.444577939	0.493301181	0.717685073	0.962098855	0.933819757	-2.206149342	2.43E-10	4.18E-06
	17	TMEM256-P	-	11498	11195	23898	19290	19388	22201	94.13537566	93.91179851	160.5245645	166.0011658	151.3691296	177.18524	0.90142557	2.50E-10	4.30E-06
	12	PCED1B	+	288	174	31	8	13	1	4.113261365	2.143130668	0.407245842	0.423971414	0.194147382	0.038786973	-4.123828587	2.56E-10	4.40E-06
	14	ACTN1	-	137776	136966	324690	258325	209338	301177	350.647671	359.1024626	680.2606474	726.2318505	528.2059263	736.5566585	0.992843422	2.56E-10	4.41E-06
	15	ITPKA	+	163	163	841	622	655	623	2.187634589	2.268514081	8.722251773	8.867053072	8.577080782	8.339441156	2.071758459	2.61E-10	4.48E-06
	1	SPOCD1	-	55	47	815	256	305	462	0.414299225	0.396881229	2.768086886	1.221294051	1.31198202	2.46910193	3.171495709	2.79E-10	4.79E-06
	9	GDA	+	508	564	91	11	67	58	2.415773024	2.670579047	0.426581951	0.239397652	0.372056839	0.289208889	-3.239540703	2.79E-10	4.80E-06
	15	IGF1R	+	789	543	202	150	152	114	1.737478176	1.231978594	0.416370259	0.390871647	0.411690192	0.290723708	-2.107915339	2.85E-10	4.91E-06
	2	IGFBP5	-	83293	28859	1216	664	222	5384	346.0665443	121.6932516	4.241030062	2.966913072	0.89994322	22.31094101	-4.90511649	2.96E-10	5.09E-06
	4	NEK1	-	1296	1062	3582	2952	2601	2760	4.328180868	3.677829686	10.45983973	10.58182739	8.456642267	9.175494849	1.334719648	2.97E-10	5.10E-06
	9	CAMSAP1	-	7284	7256	16939	13097	12781	12510	24.43977047	25.23280268	47.34006791	46.48585909	41.15657832	41.35405252	0.927956429	3.02E-10	5.20E-06
	4	FRG1	+	3027	3777	8682	7442	6349	7304	50.98735824	84.70354771	128.6335823	138.7946876	93.7076559	115.47651	1.129743365	3.03E-10	5.21E-06
	17	HN1	-	54486	54049	114027	84880	109406	94896	432.5069669	432.146956	721.6490289	696.3451796	804.7923367	734.1555414	0.893367488	3.06E-10	5.25E-06
	16	MT2A	+	198391	184047	111434	50817	94700	58824	3943.710804	3793.835834	1859.46273	1086.369958	1836.724826	1166.270717	-1.276328923	3.26E-10	5.61E-06
	1	PDZK1	+	2083	2128	14733	4916	6040	6265	24.28330441	25.71347723	136.0683155	61.63338484	64.83762782	72.81239039	1.923761758	3.38E-10	5.80E-06
	4	GUCY1B3	+	88	96	827	367	421	522	0.923718858	1.036104146	5.687196183	3.084635847	3.365109148	4.324179869	2.537809237	3.47E-10	5.96E-06
	7	CLIP2	+	8209	6131	14941	13736	17076	14318	30.47354137	25.16766243	49.2789017	55.87380593	63.01725933	51.6317068	1.066623657	3.47E-10	5.96E-06
	12	NAV3	+	824	1295	4185	4620	2554	3651	2.222651626	3.523981441	9.138109324	13.07029234	6.259376087	9.480728255	1.824468484	3.58E-10	6.15E-06
	1	PLXNA2	-	8424	7490	3666	3736	3445	2206	16.37748186	15.10001172	6.119689896	7.811263124	6.675477442	4.277558935	-1.285915081	3.59E-10	6.17E-06
	17	CSH2	-	5	0	70	89	87	72	0.796979654	0	1.191923947	1.640040716	1.84971224	1.056596932	4.99095486	3.60E-10	6.18E-06
	6	TRAM2	-	10604	10483	22524	19655	23097	17575	39.63780848	40.63424544	70.67602224	79.01300789	84.23770254	65.52348292	0.97416525	3.67E-10	6.31E-06
	6	JARID2	+	3148	3303	9642	5188	9182	7284	12.84172184	13.97216824	33.01735856	22.76009828	36.54574727	29.63604167	1.278383553	3.74E-10	6.42E-06
	1	GADD45A	+	9111	7673	23267	15126	14014	16266	113.7097751	99.30329294	243.7579609	203.0212424	170.6494491	202.4763237	1.032656407	3.82E-10	6.57E-06
	6	ADTRP	-	300	547	2799	1555	1273	1673	2.864882484	4.251645466	21.80844407	19.41661352	15.52391852	14.46370007	2.107462589	3.89E-10	6.69E-06
	19	RPS19	+	191426	182567	129340	99854	107396	102876	1299.087812	1284.773472	736.8127027	729.9179584	711.109881	696.3272294	-0.767259714	3.91E-10	6.72E-06
	17	SPAG9	-	22088	21187	44788	36435	36737	37991	53.80749489	51.94766152	90.7651614	98.72227536	83.67068072	97.31859133	0.849487079	3.91E-10	6.72E-06
	1	FHAD1	+	44	55	334	317	313	282	0.370089314	0.922759967	0.783441198	0.971755211	0.85390726	0.79548556	2.653731733	3.92E-10	6.73E-06
	18	APCDD1	+	63	40	0	0	1	0	0.566038577	0.201898711	0	0	0.012277951	0	-7.686500527	3.94E-10	6.76E-06
	9	EDF1	-	21264	19532	42748	31405	37058	37488	457.5683349	435.8373167	772.1709584	726.7673818	778.0437154	804.5721487	0.865895336	3.97E-10	6.82E-06
	3	FANCD2	+	9181	8867	5183	4585	4824	4293	28.8691031	30.93954027	14.71854417	15.72897284	16.56502319	13.95485095	-0.934598189	4.12E-10	7.07E-06
	8	ARHGAP39	-	2954	2515	1186	1081	957	1187	15.91458458	14.05042636	5.363597368	6.26319799	5.030460891	6.37818717	-1.310171302	4.19E-10	7.19E-06
	9	SEC16A	-	17747	16788	39770	27369	31906	29141	40.10374837	42.3804276	75.51940927	63.879696	67.38064832	62.92030079	0.892107576	4.20E-10	7.22E-06
	10	RGS10	-	9504	9490	18199	21011	22681	20652	196.0172732	211.9366044	329.0086005	516.8097003	456.4162915	424.8266542	1.119602115	4.28E-10	7.36E-06
	11	ACY3	-	25	15	172	203	312	179	0.635387323	0.414074482	2.867899997	4.336412237	6.04664553	3.546203453	3.43629512	4.48E-10	7.69E-06
	1	NEGR1	-	3514	4768	2131	1373	1486	1793	7.043313106	9.917801687	3.605614798	2.976222405	2.896844133	7.952110993	-1.28805571	4.56E-10	7.83E-06
	8	CA8	-	250	247	972	1247	796	1133	1.437438254	1.481602526	4.501936043	7.399433579	4.465532771	6.23502252	2.061098137	4.56E-10	7.83E-06
	2	RAB11FIP5	-	6885	6350	14741	11231	11929	11197	30.40106692	29.07537361	54.63846517	53.33213122	51.39252346	49.311508	0.891306063	4.58E-10	7.86E-06
	14	ATP6V1D	-	7623	7588	19290	13935	12169	14824	46.50181414	63.71354145	128.1427568	91.0319286	89.28075792	103.7460468	0.985079791	4.59E-10	7.88E-06
	9	TLE4	+	1581	1447	4327	2744	3797	3704	8.135672498	7.835400099	18.39780337	15.18557796	18.02920678	18.46947802	1.26676179	4.77E-10	8.19E-06
	6	MDGA1	-	9382	5426	3638	1619	2964	2283	19.91314523	12.04634826	6.527917684	3.692799723	6.191532401	5.258710146	-1.495437979	4.86E-10	8.34E-06
	1	NMNAT1	+	595	430	1788	1392	1496	1469	3.580557859	2.681423172	9.025772514	9.00023694	8.775496422	8.20859932	1.583789101	4.95E-10	8.49E-06
	1	AK5	+	1021	956	239	29	86	48	7.17984906	5.062020286	1.491667497	0.223084128	0.688939475	0.666425019	-3.298045465	5.01E-10	8.60E-06
	18	MBP	-	20176	16509	12816	7753	7417	8677	31.53486548	27.28755949	21.63884302	15.40290453	18.13357993	26.14016051	-1.000865444	5.03E-10	8.64E-06
	5	ADAMTS2	-	989	749	103	16	135	27	3.397378907	2.837956073	0.420615448	0.119989749	0.517849895	0.145933443	-3.628786047	5.09E-10	8.74E-06
	7	IKZF1	+	173	124	22	12	10	24	0.551509921	0.515979059	0.109424448	0.148371118	0.052466381	0.12237363	-3.12685628	5.13E-10	8.81E-06
	2	GPR45	+	18	14	235	109	134	167	0.269448426	0.217319091	2.952960732	1.754750094	1.957126814	2.493339064	3.33315535	5.21E-10	8.93E-06
	8	FAM83H	-	33756	31276	19999	13883	19442	16999	154.1655792	148.1202181	76.67104547	68.18759849	86.63400718	77.43218944	-0.887153176	5.24E-10	8.99E-06
	22	GRAMD4	+	3529	3208	1600	912	1518	997	20.30444181	18.64959344	7.737969961	5.650681927	8.53302833	5.728979599	-1.42240861	5.42E-10	9.29E-06
	12	PPP1R1A	-	53	35	0	0	0	0	0.813174963	1.51894421	0	0	0	0	-144269509.5	5.43E-10	9.31E-06
	14	PLEK2	-	5692	4850	19198	17156	8731	18620	91.69034647	81.01532132	259.598019	297.2079286	137.2251563	299.1576575	1.595258012	5.44E-10	9.32E-06
	11	EHD1	-	51444	49668	96302	105591	95662	110341	193.2490851	187.6341595	298.6752082	415.0425402	350.1078616	412.091477	1.012247133	5.55E-10	9.51E-06
	4	TBC1D14	+	21149	21046	13536	10235	12371	11232	91.39957417	96.18448204	51.02716145	47.54554304	52.13773548	48.41424402	-0.832976563	5.58E-10	9.56E-06
	17	MAPT	+	496	274	45	15	71	49	1.703615567	0.833259253	0.125763212	0.096558163	0.292001192	0.273391023	-3.096861539	5.97E-10	1.02E-05
	13	NALCN	-	924	1078	297	263	342	235	2.858471079	3.470651461	0.903927063	1.338135501	1.541959535	1.054227365	-1.81620972	5.99E-10	1.03E-05
	17	HNF1B	-	0	0	38	44	39	66	0	0	0.411432346	0.234572013	0.423708451	0.775456348	144269509.6	6.05E-10	1.04E-05
	12	IGF1	-	84	17	0	0	0	0	0.298152553	0.063004274	0	0	0	0	-144269509.7	6.12E-10	1.05E-05
	3	MITF	+	739	757	2492	1638	1903	2039	3.951659152	4.197566804	9.97535789	9.419645694	9.848985246	10.57887347	1.431815999	6.25E-10	1.07E-05
	16	SCNN1G	+	169	225	18	0	0	2	1.244351809	1.746820445	0.152647805	0	0	0.028695878	-5.300123725	6.27E-10	1.08E-05
	21	COL6A1	+	1991	1273	6248	4402	6969	3457	11.68717489	7.37811416	28.80297219	24.83122117	37.5490739	18.04854654	1.690888122	6.39E-10	1.09E-05
	8	DGAT1	-	9980	10112	6167	3782	5457	3990	106.2700887	111.7487283	55.1467905	43.52533058	56.9298562	42.37552798	-1.050862021	6.45E-10	1.11E-05
	1	GIPC2	+	144	216	37	16	21	11	0.94736007	1.473577673	0.256643702	5.696436436	1.445577825	0.096491843	-3.08246216	6.67E-10	1.14E-05
	2	GPC1	+	10261	8567	5661	2483	3711	2497	40.80717491	36.21676461	19.37287181	11.19370567	14.81011508	10.18677521	-1.391627963	7.10E-10	1.22E-05
	11	EI24	+	42115	43608	26394	23244	23432	24510	329.1463255	374.3774974	202.232604	201.212234	180.150796	187.8702458	-0.813096857	7.25E-10	1.24E-05
	13	SACS	-	7262	6873	14991	14444	11975	13978	11.80858857	11.69305927	20.58566623	25.48521021	19.34361849	22.87729429	0.970301562	7.38E-10	1.26E-05
	5	CCNJL	-	1777	1385	4187	2942	4184	3985	12.28210498	9.923974008	23.76469317	21.39296032	28.20797085	26.88105883	1.27443378	7.46E-10	1.28E-05
	5	GFPT2	-	554	486	130	121	104	134	4.625110249	3.138059519	0.992560228	1.10459745	1.002376841	1.268324046	-2.088677158	7.50E-10	1.28E-05
	7	PKD1L1	-	19	12	168	119	261	158	0.334894659	0.281861226	0.659584503	0.656074089	0.944381303	0.676962059	3.509328063	7.50E-10	1.29E-05
	10	AFAP1L2	-	20347	14918	6925	1405	2562	4688	88.33273348	69.00268591	27.33677278	6.984788635	11.8763461	21.61427344	-2.178541806	7.51E-10	1.29E-05
	18	KIAA1468	+	8862	8937	5786	4404	4588	4247	33.07831913	34.53664442	18.14223472	19.76400163	16.9290725	16.12792314	-0.903899735	7.57E-10	1.30E-05
	12	NUAK1	-	1345	999	3576	4899	2767	3960	5.086523047	3.917697671	11.3522751	19.92470053	10.2098395	14.93673387	1.697216665	7.61E-10	1.30E-05
	5	WWC1	+	66745	66025	126069	134579	123200	150243	234.553455	240.6669358	355.9091138	496.2522913	410.357576	511.5601386	1.008156374	7.73E-10	1.32E-05
	7	GUSB	-	10096	8192	5648	4181	4952	4257	67.41668825	56.72502737	30.81449338	36.226803	32.12215571	30.556611	-0.942015382	7.75E-10	1.33E-05
	1	CHI3L1	-	91	59	5	0	0	0	1.11207516	0.906907103	0.130578243	0	0	0	-5.906890596	7.94E-10	1.36E-05
	1	TRNP1	+	1028	1169	3968	2270	2763	2553	13.4337858	15.84114297	43.52749078	31.90191787	35.22874831	33.27498315	1.394785625	8.01E-10	1.37E-05
	11	RIC3	-	181	118	20	19	18	24	0.71563428	0.537632184	0.149903101	0.182445513	0.143739593	0.213730707	-2.884151671	8.03E-10	1.38E-05
	2	GPR1	-	54	44	383	270	280	260	0.711426328	0.581817248	4.000917368	3.520157023	3.399720378	3.227076172	2.605668484	8.15E-10	1.40E-05
	16	CES3	+	104	91	2	11	4	4	0.779536326	0.542571878	0.072253295	0.362792641	0.058830955	0.566034071	-4.215012891	8.22E-10	1.41E-05
	10	INA	+	5748	7302	14457	12048	13498	11766	45.93799606	60.51510807	96.98847528	103.5513766	105.2533031	93.78769354	0.988038644	8.41E-10	1.44E-05
	14	MPP5	+	6676	6451	15439	11936	10352	13227	28.64549883	28.70343026	55.60910339	51.25471523	40.3296702	52.67596037	0.95665816	8.55E-10	1.46E-05
	2	FAM84A	+	1298	1127	341	365	367	436	4.000135905	3.682874324	0.943396558	1.444094114	1.170865998	1.4013458	-1.684391941	8.56E-10	1.47E-05
	2	ITGA6	+	31047	34257	93110	66948	73198	50559	120.140867	136.8277749	301.0518012	277.3201826	275.0859931	194.2309523	1.119707572	8.72E-10	1.49E-05
	16	MT1X	+	7045	6362	4101	2465	3381	2534	102.6040507	109.4820737	50.13718457	38.60877868	48.04406029	54.29453431	-1.10325292	8.98E-10	1.54E-05
	9	EXD3	-	233	171	904	728	721	749	1.477906855	1.642337024	5.239329805	6.716495984	4.762750641	6.02817441	1.940771488	9.03E-10	1.55E-05
	16	TLDC1	-	4344	3987	9215	7665	8112	7401	18.44620615	17.13905401	31.46073912	34.11733103	31.43772018	30.7881483	0.959120503	9.04E-10	1.55E-05
	8	COL22A1	-	9565	5885	3612	1396	3103	2208	34.80185666	21.46595357	11.03349351	5.595712784	11.11115518	8.082155611	-1.58230367	9.24E-10	1.58E-05
	5	TMEM173	-	11631	8920	5339	5132	5341	5216	78.00969339	62.0387541	30.05924723	39.21747248	35.60811257	35.54795817	-0.966896956	9.41E-10	1.61E-05
	6	DCDC2	-	8104	7320	2094	3626	2136	2950	41.88603463	41.64144824	9.642982709	21.39249687	11.43300302	15.84482234	-1.51334437	9.46E-10	1.62E-05
	17	CALCOCO2	+	8398	7926	18588	11974	16234	14831	43.96884395	47.41578366	86.92842967	63.82332211	70.94625869	71.66336477	0.916567947	9.62E-10	1.65E-05
	15	HAPLN3	-	635	499	82	145	71	118	4.700991802	4.122687886	0.588943355	1.152122605	0.570226109	0.917029851	-2.446765207	9.77E-10	1.67E-05
	14	AJUBA	-	7915	7472	19138	11619	15248	13514	34.18334912	36.94854533	69.38201457	53.96573221	64.25214015	58.21157244	0.95163831	9.78E-10	1.67E-05
	1	DDAH1	-	4380	4590	9112	10100	9599	8949	24.95057946	24.79935185	35.93733731	49.0518169	44.59535807	45.82057055	1.073678874	9.79E-10	1.67E-05
	9	REXO4	-	4773	5097	10826	9608	8685	9489	52.2241856	52.51305647	90.29020774	102.6607873	84.19122166	94.03036822	0.967777831	9.86E-10	1.69E-05
	19	RPL13A	+	339796	335756	247401	172963	200807	192934	3703.782251	3795.051416	2263.681382	2027.524097	2135.585952	2097.47927	-0.730851944	9.87E-10	1.69E-05
	3	NUP210	-	53395	42864	27975	23856	28874	21349	170.8728724	151.1604719	81.04594683	89.41613776	98.18623916	74.21162	-0.915660611	1.00E-09	1.72E-05
	4	IRF2	-	3320	3045	7358	5453	7206	6181	33.77837172	26.87389792	54.90255501	52.50711025	58.81131585	53.38325784	1.041224259	1.04E-09	1.78E-05
	1	RGS16	-	56	84	0	4	0	0	0.595813714	0.9267625	0	0.058741677	0	0	-6.129283017	1.04E-09	1.78E-05
	19	IL12RB1	-	2	12	82	161	189	226	0.083431796	0.271157636	0.558063122	1.33621953	1.367921102	1.531315009	4.554588852	1.07E-09	1.83E-05
	5	TRIO	+	24094	19830	44792	37330	37346	40561	43.27759184	35.18549277	65.08754242	70.66040927	62.81936394	67.04513903	0.865252023	1.09E-09	1.86E-05
	4	SAP30	+	858	928	3665	1940	2436	2122	16.78439152	20.84638064	60.18371009	43.58741715	46.49503949	44.21614527	1.508522346	1.11E-09	1.90E-05
	22	WNT7B	-	31895	28978	15456	12907	17317	17555	205.2834448	164.4634567	71.009766	89.3392416	92.47364759	92.15677314	-0.94507917	1.12E-09	1.91E-05
	1	HSPG2	-	12650	6819	56687	19565	48217	28852	20.36598797	11.35940723	73.48084869	33.54671197	70.32512917	44.51388503	1.977304624	1.17E-09	2.00E-05
	15	TTBK2	-	465	336	1502	1199	1080	1387	1.0854543	0.822771865	2.869246013	2.926382758	2.372680928	3.114890229	1.689731922	1.20E-09	2.05E-05
X		CSF2RA	+	330	266	1023	974	1305	970	3.46253818	3.052993224	7.680823029	8.995046328	10.86537841	7.76559332	1.841527411	1.20E-09	2.06E-05
	4	OCIAD2	-	22130	21836	43241	36288	37795	43263	236.9170712	235.5755702	377.4834524	405.8487279	383.6505637	448.7390681	0.868894919	1.21E-09	2.07E-05
	9	VLDLR	+	539	325	2008	1301	3360	1695	1.518949458	0.949739754	4.660604413	3.942915644	9.064464869	4.76415613	2.275089844	1.21E-09	2.07E-05
X		RPS6KA3	-	21265	19042	12466	10936	10397	11628	67.15272398	62.35589336	33.04547766	37.14004106	32.27920187	36.62393419	-0.827480376	1.25E-09	2.14E-05
	1	SCCPDH	+	8381	7934	15533	18523	19192	22845	86.46238993	84.87705242	134.5158318	205.5078202	193.1802187	235.0630043	1.221564755	1.25E-09	2.14E-05
	2	OBSL1	-	13802	10080	7509	3843	5748	4952	40.33467488	31.72802521	17.29151137	13.08010791	17.18490097	17.24865197	-1.115014154	1.30E-09	2.23E-05
	16	RP11-1021N	+	924	689	182	183	64	177	22.68028336	17.53728762	8.218812251	5.441042137	3.942393173	11.1456122	-2.41235674	1.31E-09	2.25E-05
	10	HKDC1	+	431	497	144	88	72	57	2.727111659	3.398385548	0.774142441	0.866892952	0.559701839	0.474623137	-2.362125968	1.32E-09	2.26E-05
	1	VTCN1	-	171	104	2	12	2	14	1.695042639	0.986115056	0.033895212	0.957590608	0.039396961	0.222432883	-4.196397213	1.34E-09	2.29E-05
	2	ACSL3	+	22999	20076	11956	11377	11984	12277	91.53566833	91.6575223	44.728705	53.96084407	47.87966489	49.96659497	-0.856071087	1.36E-09	2.32E-05
X		TFE3	-	11717	11729	24661	20200	19653	20051	71.83358842	79.89450034	127.2136004	142.7007322	117.8354797	131.3672059	0.850718867	1.36E-09	2.33E-05
	3	ACKR2	+	161	36	1098	12282	3179	16925	1.183086132	0.336110667	5.075759269	67.29927141	15.52789044	81.87373448	6.409132443	1.41E-09	2.42E-05
	3	TIPARP	+	14946	15320	28212	31859	33315	31038	76.81881296	83.88974007	125.0558248	179.7863231	171.6462132	159.3322164	1.039494868	1.44E-09	2.46E-05
	7	CREB3L2	-	6555	5798	19265	9756	15450	11438	22.33330689	20.01443627	53.67453928	34.99875535	50.11623612	37.97609196	1.178219089	1.45E-09	2.48E-05
	6	KCTD20	+	5087	4622	10872	8124	8546	9345	22.53125733	20.21601534	37.7722945	38.6971727	34.5104936	39.80752097	0.925717845	1.46E-09	2.50E-05
	2	RAMP1	+	3350	2536	1100	1250	1167	1194	70.10062533	55.02917883	23.86745464	28.13019411	23.82642941	26.21562912	-1.32125421	1.47E-09	2.52E-05
	3	NLGN1	+	71	39	0	2	0	0	0.246321644	0.184831123	0	0.03530849	0	0	-6.781359714	1.48E-09	2.53E-05
	8	UBE2V2	+	8106	8255	16264	14668	14136	14764	41.47300838	34.90330338	70.05927555	80.70779315	57.14817421	75.56442357	0.870656359	1.49E-09	2.54E-05
	16	HMOX2	+	13407	12939	24495	26094	25924	25880	92.29470584	92.36609673	141.5498093	193.1841403	178.8440566	189.1395459	0.958461245	1.51E-09	2.58E-05
	12	NTN4	-	3026	2320	833	98	310	306	20.42818249	15.278459	4.485987155	0.782707077	2.179199351	2.242074642	-2.788986641	1.52E-09	2.59E-05
	17	C17orf61-PL	-	10269	9884	20858	16879	16693	19659	90.6245946	90.45182994	154.5173496	160.1954833	143.7352669	173.0378341	0.878264745	1.58E-09	2.70E-05
	4	SMARCA5	+	21150	21399	44985	38885	33645	39625	68.93074313	72.32072403	117.3822482	136.291987	105.9447719	127.5495628	0.884853335	1.60E-09	2.73E-05
	19	IGFL1	+	57	28	0	0	0	0	1.913994831	0.974968612	0	0	0	0	-144269509.5	1.60E-09	2.73E-05
	15	RASGRP1	-	2532	1506	902	309	327	401	11.89189896	7.931920863	3.845739869	1.768542753	1.595073482	2.031387615	-2.058328107	1.61E-09	2.75E-05
	17	AC005544.1	+	5183	4154	111	269	513	1008	193.9654431	161.2041968	3.487006822	10.82632512	18.73145626	37.62403858	-3.296200551	1.64E-09	2.80E-05
	5	EPB41L4A-A	+	177	110	2	4	12	18	4.433093036	2.85688634	0.042048474	0.107740553	0.293241781	0.449642972	-3.994981925	1.68E-09	2.86E-05
	4	IL8	+	1764	1663	302	566	467	226	20.60165371	20.14013833	3.986692133	7.108951713	5.978538834	3.000272345	-2.134475655	1.69E-09	2.89E-05
	1	ECHDC2	-	3524	2535	1152	1195	1367	1123	8.116056382	6.102052306	2.434507028	3.171075252	3.222369495	2.65488892	-1.324967168	1.73E-09	2.95E-05
	2	ITGA4	+	3461	1696	1198	474	611	549	14.9473874	9.662442724	4.847458288	2.922522313	3.674803472	3.547227313	-1.86471078	1.77E-09	3.02E-05
	16	CNGB1	-	125	88	402	706	668	817	1.681128958	1.751940411	2.757514974	6.090621344	5.231529393	6.305504203	2.605696871	1.81E-09	3.09E-05
	4	NAT8L	+	7487	7059	2317	3212	3542	2880	32.92971693	32.1951197	8.55592249	15.19292283	15.19986549	12.63381104	-1.283491141	1.82E-09	3.10E-05
	1	LAMC2	+	111822	102174	213005	182310	169145	222842	441.3087923	418.1406771	705.6539659	773.7692141	651.3066497	877.150463	0.879333313	1.84E-09	3.14E-05
	17	TMEM132E	+	26	60	0	0	0	0	0.159018394	0.511333224	0	0	0	0	-144269509.5	1.85E-09	3.16E-05
	8	GPAA1	+	28915	28384	18403	12399	17380	12514	229.8083106	232.6394735	122.1007694	113.8253925	133.9485818	105.73899	-0.916908518	1.87E-09	3.19E-05
	15	RASGRF1	-	310	224	835	1026	1397	1296	1.882611394	1.463999731	4.145545184	4.773354154	5.896551492	6.792408848	2.092222644	1.89E-09	3.23E-05
	12	CSRNP2	-	3610	3982	8612	6555	7341	6950	18.14284318	20.6638146	36.08614183	35.19589841	35.51983294	34.78315663	0.956107587	1.89E-09	3.23E-05
	19	SYDE1	+	2548	1919	7307	4491	4883	4315	16.59390031	13.83913571	39.94614045	32.8804754	31.02750118	28.02796575	1.232736343	1.92E-09	3.28E-05
	12	PTPN6	+	7454	7826	4596	3319	3684	4215	42.45219177	41.83576882	28.90970472	25.16904795	22.49539721	31.79713801	-0.950442214	1.99E-09	3.40E-05
	3	CHST2	+	319	330	1489	1018	910	940	2.336149436	2.506054863	9.153586687	8.017580807	6.502230374	6.865932275	1.74704473	2.05E-09	3.50E-05
	2	KRCC1	-	817	561	2509	1666	1837	1760	12.0346201	8.569192278	31.02399018	26.39191821	26.40161589	25.85739212	1.495710013	2.07E-09	3.53E-05
	17	MARCH10	-	209	113	14	6	29	11	1.847595832	0.876783618	0.247927971	0.118845054	0.246088358	0.132074616	-3.424026283	2.09E-09	3.57E-05
	13	DIAPH3	-	8650	8857	18325	13489	16166	15304	45.2698658	48.14499875	79.06299494	72.72204457	79.22426865	75.11866524	0.853908907	2.10E-09	3.57E-05
X		ZNF185	+	33127	31651	69771	52125	66005	51635	187.8370791	184.4424416	315.4025826	315.0202182	365.1632614	292.0149759	0.886666665	2.13E-09	3.63E-05
	12	RBMS2	+	9917	9240	19134	16370	16776	16532	76.57840019	74.43374987	119.4895883	132.8065993	123.4766353	122.666155	0.844788524	2.15E-09	3.66E-05
	16	GPT2	+	8017	7304	3018	2713	4361	3232	32.62665134	30.83365407	10.31343731	12.61982517	17.32186476	13.1229239	-1.201483206	2.17E-09	3.70E-05
	3	CLSTN2	+	670	651	124	136	191	183	1.218368615	1.227585039	0.204397153	0.284521422	0.338881836	0.331907232	-2.059075721	2.18E-09	3.71E-05
	8	HAS2	-	11	93	0	0	0	0	0.067790823	0.594330295	0	0	0	0	-144269509.8	2.19E-09	3.73E-05
	12	RAD51AP1	+	10726	11158	7156	5578	5782	5782	109.0426308	116.8919087	61.50411287	61.42021091	58.10680836	59.68449272	-0.849038892	2.21E-09	3.76E-05
	1	ENAH	-	10725	10874	20185	21026	21479	20105	19.0955292	19.87380402	29.8634786	39.35395993	37.1668668	35.11428401	0.938579126	2.22E-09	3.78E-05
	10	IFIT3	+	807	673	2266	1702	3378	2390	7.893358947	6.826059664	18.60522334	17.90331713	32.23732418	23.31567235	1.717731992	2.23E-09	3.80E-05
	3	ADAMTS9	-	2742	1900	5584	6520	5610	8938	8.103033881	5.937209869	13.7045651	19.84885246	15.02022734	24.96141508	1.521425371	2.29E-09	3.90E-05
	9	C9orf37	-	531	529	1849	1258	1336	1557	7.447885259	7.694153142	21.77018059	18.97600247	18.28335693	21.78155062	1.500898236	2.29E-09	3.91E-05
	1	CHI3L2	+	73	109	716	480	330	519	1.134185486	2.748279661	7.306971592	7.948515958	4.893547736	11.3565094	2.490090488	2.29E-09	3.91E-05
	12	RERG	-	398	547	62	85	121	93	4.608615263	6.489551897	0.621605586	1.118701824	1.151687617	1.079393046	-2.388315492	2.35E-09	4.01E-05
	10	SNCG	+	298	154	30	22	50	25	6.18072125	4.1443515	0.818992003	0.812423947	1.248481485	0.855064748	-2.831494276	2.36E-09	4.02E-05
	1	TGFBR3	-	2618	1886	5849	5812	4264	6272	10.46800319	7.369192462	19.55318567	22.84824204	16.63498538	23.99473246	1.301085972	2.37E-09	4.03E-05
	19	KCNN4	-	12933	11099	5073	4136	7160	5070	101.5377765	90.3605614	33.43335023	34.92163207	54.84694182	39.70069006	-1.164719104	2.44E-09	4.15E-05
	14	RP11-497E1	+	4	8	97	155	63	157	0.160635402	0.559306872	3.269939145	6.694198728	2.468498369	6.288436056	4.297680549	2.50E-09	4.26E-05
	4	LAP3	+	13308	14642	8856	7758	6845	7342	115.354498	111.1928949	58.52516855	71.24360124	54.38516852	60.58632095	-0.859871092	2.59E-09	4.42E-05
	9	C9orf172	+	131	102	678	399	929	530	1.154111376	0.931844177	5.014097613	3.780375614	7.985519301	4.657083458	2.444152885	2.61E-09	4.45E-05
X		HDHD1	-	2666	2901	6003	5631	5501	5940	21.7303748	24.5200583	41.07353475	50.37808913	43.7481548	48.28978165	1.05135866	2.63E-09	4.49E-05
	3	RFTN1	-	6261	5700	13572	10492	9603	10961	46.31120696	42.4910507	77.86832026	76.79604087	62.61423505	77.17212272	0.899611143	2.64E-09	4.50E-05
	4	SLC2A9	-	296	414	95	58	35	32	1.535426612	2.039669188	0.550593287	0.836710339	0.256337928	0.269857763	-2.690315501	2.68E-09	4.57E-05
	7	DNAJB6	+	49870	51740	95666	86725	92513	88211	87.37618139	94.17023425	138.6596524	160.825664	155.6464435	151.7084894	0.837384135	2.71E-09	4.61E-05

3	HTR3D	+	14	13	98	110	99	142	0.538762997	0.438964205	1.683238398	2.469453548	1.794418188	2.539684813	3.055684133	5.50E-08	0.00092598
11	KIAA1549L	+	14820	12802	9673	6643	8512	6525	31.06706661	27.82893367	17.81257628	15.67215681	18.21887363	14.2764795	-0.81721429	5.54E-08	0.0009323
19	HSH2D	+	419	265	1084	894	1828	1451	3.444596304	2.821414066	7.333574087	7.811986815	14.23656366	12.29271459	1.942171505	5.63E-08	0.00094711
6	DPCR1	+	2	21	212	94	294	176	0.013064579	0.139358896	0.883034114	0.501612605	1.42335526	0.871022452	4.076350886	5.74E-08	0.0009657
8	LETM2	+	1007	1356	4068	5478	2241	5265	4.939759836	8.63070197	17.37153677	29.09251466	12.39801331	25.88236436	1.851249426	5.78E-08	0.00097263
12	SLC41A2	-	3500	3103	6979	5475	5945	6054	17.74891846	16.25043255	29.58668545	30.59799734	29.29404433	30.49443517	0.888817921	5.80E-08	0.00097573
5	NPR3	+	68	77	647	206	377	421	0.226773289	0.271648863	1.531211318	0.731821196	1.03704251	1.37040769	2.509215315	5.81E-08	0.00097685
3	FAM198A	+	312	304	27	31	64	79	2.157607908	2.402642332	0.201810926	0.3677377	0.480464484	1.005241832	-2.61573485	5.85E-08	0.0009837
21	LTN1	-	4441	4580	8907	7945	7963	7776	13.79811422	15.04204828	23.68061183	26.88359498	24.90969205	23.17909519	0.853114346	5.88E-08	0.00098863
11	BATF2	-	112	143	472	597	453	706	1.471047695	1.813013618	4.349943241	7.750708833	5.403903143	7.470300925	2.12718008	5.89E-08	0.0009905
4	NMU	-	4476	3598	2286	975	1856	1249	141.642037	118.0673846	60.72464384	33.100091	57.51626744	42.15915232	-1.34289643	5.95E-08	0.00099957
15	FBN1	-	38397	21388	10274	1511	1157	3829	63.93015282	36.58272447	14.35934647	3.195298724	2.164862259	6.437376642	-2.833814844	5.97E-08	0.00100418
4	NOP14	-	30569	33733	19602	19504	16564	18159	223.1082594	255.3030954	120.0940429	153.0889116	117.9534536	132.1867941	-0.800675993	6.01E-08	0.00100999
X	IL3RA	+	0	4	217	90	27	56	0	0.514938779	3.486797237	2.67020458	0.934406074	1.809604532	5.607330314	6.01E-08	0.001011
17	ITGA3	+	248884	234842	136282	127943	158395	147350	655.6537124	641.5344973	304.1646463	369.3340373	414.8295299	397.1256775	-0.763304098	6.05E-08	0.00101691
17	SMURF2	-	39865	40308	71618	115262	86806	107001	147.8810002	155.0524235	223.0126324	459.8248026	314.1820571	395.8860261	1.24741694	6.09E-08	0.00102287
12	PMEL	-	3352	2970	6207	5694	6205	6041	26.41312662	30.31915556	31.634813	43.50016691	39.1708798	53.22724525	0.933391021	6.13E-08	0.00103022
7	FAM220A	-	1370	1520	3283	2614	3717	3586	15.86382641	17.60413542	32.1419466	31.39754049	40.87622114	41.71446119	1.191396532	6.21E-08	0.00104333
3	PCBP4	-	5796	4688	13818	7565	11268	9235	41.57364668	34.73428772	83.64110781	58.76392042	78.44432374	67.53074141	0.998278859	6.27E-08	0.00105399
17	NOS2	-	28	38	0	0	0	0	0.480731345	0.505473933	0	0	0	0	-144269509.1	6.37E-08	0.00106958
9	DMRT1	+	4	9	180	42	144	74	0.240765882	0.241232581	2.269737	0.678502246	2.110522	1.108689189	4.080919995	6.38E-08	0.00107168
13	ALOX5AP	+	203	172	714	497	906	684	4.735225457	4.160444842	13.64784452	10.26916178	20.1288244	15.91338062	1.900979483	6.48E-08	0.00108844
4	CBR4	-	1412	1200	3232	2803	2476	3600	7.903937308	6.623825977	15.01431512	16.96592584	13.34643269	22.23414407	1.213091191	6.62E-08	0.00111184
3	ABHD14B	-	2127	1928	4702	3644	3544	4416	21.41274599	19.71951957	32.25332191	32.07427736	30.2776531	35.9797829	1.007629101	6.71E-08	0.00112704
10	FAM25C	-	119	69	407	459	395	444	9.283488684	10.4977292	36.91266636	38.16313946	41.63920823	47.8452732	2.180967172	6.74E-08	0.00113227
4	ANXA3	+	17104	13145	43546	26613	23143	40135	93.09905062	72.97973316	189.1967506	160.4529758	120.0232584	212.7307827	1.141199405	6.80E-08	0.00114214
14	SNX6	-	8642	8482	15752	13410	14399	14398	57.94727103	63.37080291	88.66272878	110.5693027	103.3248469	97.07173141	0.759012963	6.86E-08	0.00115284
10	SLC29A3	+	571	737	259	186	129	164	5.493458418	7.369123887	2.507405531	1.928769133	1.238122656	1.891511973	-1.825669819	6.89E-08	0.00115782
14	GALC	-	1181	1067	456	347	472	404	6.932472898	6.9600154	2.193575386	2.580673349	3.14429831	2.762835445	-1.421039805	7.08E-08	0.00118968
19	ERVV-1	+	10	0	59	91	144	163	0.117266761	0	0.580782613	1.147630161	1.647587338	1.906444907	4.51412226	7.13E-08	0.00119718
8	PUF60	-	43673	43850	32004	24142	25974	26395	210.8695503	221.9590556	130.1535331	147.281727	145.4541481	135.6868968	-0.689839615	7.25E-08	0.00121712
1	SLC35E2B	-	2399	2240	4821	4362	4318	4713	7.953179582	7.836434411	13.41462642	15.55184192	13.96524144	15.58166819	0.973162038	7.30E-08	0.00122614
17	AATF	+	30068	34084	61227	50510	54251	51802	170.5293497	198.103107	325.6024875	332.5436573	337.0700438	584.8913679	0.763371565	7.35E-08	0.0012346
22	TOM1	+	4203	2837	9895	5614	8915	6487	22.98400207	17.68703805	41.41415423	36.90849823	41.81859748	33.49433987	1.134472994	7.43E-08	0.00124703
2	SLC5A6	-	11808	13831	8075	7548	6670	6957	53.51137917	64.66739116	31.81850681	40.23203903	29.41473079	33.61621123	-0.809903369	7.61E-08	0.00127712
19	CNTD2	-	802	810	2476	1570	1741	1929	10.35985839	12.58805651	26.75460975	25.30417898	24.97914262	28.93449468	1.2590014	7.72E-08	0.00129591
16	SIAH1	-	1982	2054	758	615	1054	622	11.42144232	11.88409272	3.691395006	3.690282734	7.032534856	3.574945377	-1.404590024	7.72E-08	0.00129615
15	GREM1	+	2	6	64	61	52	107	0.326862542	0.072533137	0.370727754	0.581723141	0.449899221	0.736434226	4.14974712	7.76E-08	0.00130246
1	JAK1	-	39625	31621	74899	49272	63181	61501	175.9288736	145.5828258	279.1454353	216.6043578	287.5369635	272.3401982	0.804412856	7.79E-08	0.00130758
3	TM4SF19	-	512	474	2193	1250	1158	1174	6.461845594	6.203426699	23.23335409	16.96610925	14.2595624	14.77802637	1.550161395	7.81E-08	0.00131004
21	SOD1	+	24628	23519	44319	50356	39709	52525	346.9436353	311.9187457	475.8088796	692.6164174	495.5139659	670.0137445	0.956818226	7.88E-08	0.00132297
2	DAW1	+	64	59	536	189	339	305	0.821380224	0.689883045	4.487574259	2.171515979	3.328482779	3.061238432	2.476392226	7.93E-08	0.00133021
4	MAP9	-	1534	1915	4054	3788	3399	3428	5.125668216	6.588411103	11.37091832	13.61196214	10.8840388	11.42424924	1.088520491	7.97E-08	0.00133691
9	TMEM2	-	6002	5231	18299	10067	28093	13125	18.00052138	16.95346492	43.68380076	32.46943959	80.78815815	37.24010924	1.631012334	8.01E-08	0.0013432
8	GSDMD	+	13027	10855	7370	6279	7217	7028	65.75156922	56.81437514	31.91848834	34.52844186	36.0054792	42.14271919	-0.775968829	8.01E-08	0.00134423
11	BTG4	-	0	0	22	59	21	60	0	0	0.565013914	1.507302236	0.527498987	1.62831719	144269509.4	8.03E-08	0.00134636
2	LBX2	-	253	194	813	903	581	1005	3.343398987	2.658496624	9.018719821	12.83338037	7.491259495	13.246327	1.884993384	8.10E-08	0.0013596
14	PTPN21	-	1659	1066	5890	3720	2283	5156	6.238376522	4.094103041	18.92271697	14.75573129	8.635147215	18.41243218	1.645358986	8.20E-08	0.00137528
2	CTDSP1	+	13289	12167	9014	6462	7635	7529	91.26341197	83.32315255	59.66026229	53.48750067	55.74004952	57.83060202	-0.732589444	8.22E-08	0.0013782
11	SLC43A3	-	22786	24869	46438	53442	41581	41887	172.2937921	200.2744811	294.7553579	434.5801349	306.7661881	316.0799428	0.943885033	8.23E-08	0.00138062
6	SMOC2	+	50	18	0	0	0	0	0.556271883	0.520499673	0	0	0	0	-144269509.2	8.30E-08	0.00139139
19	SHANK1	-	3	23	491	365	76	258	0.030355181	0.218935933	2.027221006	1.906356326	0.420643911	1.271464592	4.51630614	8.31E-08	0.00139442
8	DEFB4A	+	4	0	35	81	83	56	0.43398556	0	1.996472611	5.919421942	5.502977839	3.7954074	4.994353437	8.35E-08	0.00139943
15	PRTG	-	640	647	262	97	128	181	1.212129244	1.27069094	0.435547891	0.212873588	0.251452446	0.362092092	-1.946092046	8.40E-08	0.00140856
14	ZFYVE26	-	3648	3555	9133	7001	5351	7477	6.597966633	6.665143726	15.13623378	14.09545882	8.767885078	13.84177487	1.007491423	8.49E-08	0.00142409
3	HCLS1	-	7	12	194	2958	95	3512	0.131553847	0.964930325	2.074564253	18.91847939	1.059523619	27.5342406	7.474666586	8.50E-08	0.00142518
15	PLCB2	-	58	40	3	0	0	0	0.925639163	0.698222073	0.068958606	0	0	0	-6.029747343	8.53E-08	0.00143028
5	HOMER1	-	4380	5507	2346	1391	975	2358	19.2315893	25.07395486	8.64680644	6.568312792	4.176925262	10.32634406	-1.483822617	8.68E-08	0.00145511
4	PRKG2	-	188	118	16	0	0	0	1.557447055	0.945724139	0.257281761	0	0	0	-5.257387843	8.69E-08	0.00145619
11	BDNF	-	2287	2738	1316	467	449	849	9.756358169	11.42510887	4.359712773	2.44138735	1.972840253	4.488015832	-1.705724914	8.73E-08	0.00146354
3	TCTEX1D2	-	1066	929	2861	1846	2055	2324	26.3915648	30.86310489	49.77127021	49.15019712	49.6398872	48.03657681	1.187256559	8.77E-08	0.00147027
1	EFHD2	+	44552	42086	77713	75134	97315	73481	454.534973	445.2505333	665.5496179	824.3701182	968.7035916	747.7163589	0.901331456	8.78E-08	0.00147165
15	LACTB	+	524	518	1537	1188	1328	1287	4.616445505	4.67961908	11.04275575	10.93500551	11.57319449	10.98644552	1.357484464	8.91E-08	0.00149295
12	GALNT6	-	647	608	1548	3368	1845	3265	3.165989216	2.52173241	5.770323297	16.74360721	6.918230021	14.78351028	1.99798687	8.99E-08	0.0015064
8	MAF1	+	26994	26053	19621	14467	15855	15608	337.3876421	293.4860751	178.9249337	169.0157494	168.0507027	194.5677734	-0.694653374	9.08E-08	0.00152197
8	FGFR1	-	2897	3146	7832	7852	7373	4651	10.45663152	12.52823687	25.17294496	23.59604395	25.28695747	16.78358036	1.196965732	9.13E-08	0.00152946
1	S100PBP	+	1407	1272	3357	2546	2796	2559	4.302670784	4.43606546	9.019124058	8.611783793	8.136223195	8.555873556	1.071184067	9.13E-08	0.00153047
X	ARSD	-	1716	1469	3910	2656	3354	3363	6.430241417	6.026527264	12.6913918	10.70344783	12.02018084	12.32041997	1.060215742	9.14E-08	0.00153193
1	ABL2	-	2195	2196	5395	4210	3874	3909	4.429477887	4.661267464	8.907827328	8.852293277	7.863594633	7.651785118	0.985470561	9.23E-08	0.00154688
15	ANPEP	-	56654	57679	32593	23995	37825	31765	300.3341335	325.6980176	149.0161334	141.5645236	202.50245	173.8035453	-0.857781481	9.42E-08	0.0015779
8	PNOC	+	38	26	0	0	0	0	0.966740246	0.580164358	0	0	0	0	-144269509.1	9.63E-08	0.00161299
4	RELL1	-	985	686	2097	1879	2002	2097	14.38620401	10.38964713	25.70958573	29.51361415	28.52890354	30.54711075	1.272750526	9.69E-08	0.00162383
19	DYRK1B	-	1653	1317	581	433	711	457	14.0500325	11.24523831	4.411120572	3.986891665	5.92563261	4.102415284	-1.444811829	9.73E-08	0.0016292
3	LRRC2	-	20	10	102	216	203	104	0.120946795	0.067177161	0.509201016	1.309111211	1.116205662	0.602581152	3.380821784	9.74E-08	0.00163194
9	APTX	-	5669	6398	11801	10334	10272	9938	40.92415884	53.97544803	67.51077819	75.85950275	68.32007093	74.55540928	0.81112458	9.82E-08	0.00164446
3	GPR160	+	3465	3183	1737	1004	1663	1564	20.07938013	20.83877921	9.03556318	7.289204742	10.79016602	10.48961368	-1.155672847	1.00E-07	0.00167503
15	CKMT1B	+	364	635	18	119	38	34	2.837083987	5.951445042	0.355020737	1.678336814	0.559220527	1.419213464	-3.256981736	1.01E-07	0.00168922
4	MED28	+	7617	6958	4270	3886	3777	4286	17.90996598	17.14327285	8.428015868	9.826508465	8.755896579	10.15679078	-0.845811012	1.02E-07	0.00170225
11	PPP2R5B	+	4819	3858	10186	6263	9508	7893	40.29692244	32.16219119	65.40036059	52.89668775	70.95614348	60.21346708	0.9638876	1.03E-07	0.00172132
22	ATXN10	+	51328	37802	28093	24197	26442	26617	264.3396176	207.2092564	134.098996	137.5545094	140.9625838	147.548184	-0.758806391	1.04E-07	0.00173346
16	LONP2	+	11173	11145	6081	5125	7374	5284	29.30531022	29.98971159	13.93358194	14.45039132	19.63881437	14.22611785	-0.903371865	1.04E-07	0.00174408
11	POU2F3	+	671	520	200	93	178	179	6.867481757	4.719981215	1.812373608	1.187958542	1.826719118	1.877826676	-1.87366179	1.05E-07	0.00175319
9	NFX1	+	9371	9084	19248	14473	14128	14630	34.29897681	35.25226104	60.46658316	58.24884886	50.45299317	54.60711154	0.759359625	1.05E-07	0.00175818
22	HDAC10	-	10339	8204	5613	2964	5404	4204	50.59221407	41.7875219	23.05615361	15.59800233	25.99280295	20.67050957	-1.028125745	1.05E-07	0.00176439
5	PCDHA11	+	1803	1835	859	671	796	849	8.856252587	9.346672683	3.541882061	3.544560707	3.814857842	4.159332915	-1.196388951	1.05E-07	0.00176439
19	ERF	-	12809	13148	8527	7418	7845	7477	100.3811233	106.8472181	56.09443177	63.48191271	59.98474226	58.44211592	-0.73148285	1.07E-07	0.00178247
3	FLNB	+	161221	117461	362959	294376	193583	280907	304.340329	245.2613572	577.6852233	648.7468527	380.4367465	534.2761567	1.021959182	1.07E-07	0.00178997
6	KAAG1	+	1403	1224	376	554	357	481	26.21451775	23.71550174	5.897374545	11.13216404	6.508238224	8.96377616	-1.571297926	1.07E-07	0.00179031
9	DAPK1	+	5945	5274	12965	8193	9663	9286	22.78311472	20.11694163	43.55016101	36.2063424	37.99798121	32.82865522	0.837909969	1.09E-07	0.00181748
11	SMPD1	+	1084	1037	3492	2067	2252	2154	10.41339309	10.70866129	27.49457004	21.0413687	20.63939271	20.93407591	1.232125184	1.09E-07	0.00181952
20	PTGIS	-	92	103	18	4	4	12	0.425817701	0.494355996	0.086435044	0.027583936	0.024046153	0.735844292	-3.3594028	1.09E-07	0.00182653
X	PRPS1	+	6928	8978	16257	17177	13283	15368	86.29801805	115.9682868	169.9886843	230.1049118	161.4359072	180.1529029	0.964673673	1.10E-07	0.001833
17	CBX1	-	22603	21077	41004	32586	33757	37293	192.309011	186.6936691	292.850816	298.1605861	280.2259928	316.4627483	0.727421821	1.11E-07	0.00185784
6	FAM46A	-	218	162	955	496	586	687	1.003606114	0.813701796	3.654761454	2.431847335	2.606619498	3.154461758	1.84165538	1.13E-07	0.00188359
1	UBR4	-	23360	17514	46820	38133	33017	31850	28.31816389	21.91956833	49.68276177	47.89499217	37.35929509	36.91806222	0.873974887	1.14E-07	0.00190206
19	HCN2	+	145	89	662	418	804	364	1.098653291	0.699277192	4.210535296	3.40607786	5.943739004	2.750779424	2.264061601	1.15E-07	0.00192517
3	ACPL2	+	3987	3451	2235	1443	1667	1986	14.90558496	14.25151045	7.262154695	6.083542457	6.328962036	8.510571835	-1.020904742	1.16E-07	0.00193965
6	VARS2	+	5912	5495	12086	10036	18229	11184	18.33319279	17.65945832	31.44215017	31.73548177	60.80602705	36.5903061	1.175633154	1.17E-07	0.00195647
12	FKBP4	+	85065	111522	51590	53147	59207	50284	554.9672579	754.4729992	282.5326526	372.8900892	376.8777811	327.1960089	-0.876020866	1.18E-07	0.00197519
2	ACADL	-	118	108	24	16	14	6	1.019408703	0.820628883	0.244007374	0.24279893	0.421410979	0.525603066	-2.913288367	1.19E-07	0.00199002
11	PDE2A	-	357	287	1346	742	1056	811	2.130460888	1.748963664	6.5008646	4.94847135	6.088155682	4.743797462	1.618545101	1.21E-07	0.00201672
2	ZEB2	-	16	20	363	230	80	128	0.205345056	0.221662388	0.6777247	0.799390407	0.299042806	0.340309944	3.475733431	1.21E-07	0.00202617
12	RAP1B	+	41623	40912	77575	63538	63093	66972	239.5353167	238.9819191	335.7657341	350.508218	445.2626125	373.3406357	0.716162194	1.23E-07	0.00204895
11	STX3	+	4511	4785	8480	8949	8730	8490	16.37846979	18.02321944	26.87708455	34.94303602	30.9261433	31.23212846	0.898131742	1.23E-07	0.00205111
11	RAB30	-	1223	914	2852	2190	2227	2318	2.966138648	2.464901832	5.831517667	6.062258723	5.564045185	5.97109896	1.165492524	1.23E-07	0.00205529
3	CADPS	-	175	155	37	8	2	7	0.90831651	0.835259923	0.424120343	0.111247382	0.037491602	0.08511891	-3.611434712	1.24E-07	0.00206842
3	MFI2	-	4458	2538	1372	1086	1811	1011	13.71560868	8.204703647	3.543364235	3.64099464	5.641317927	3.102329354	-1.40599236	1.25E-07	0.00209206
5	PCDHA7	+	1578	1579	752	584	643	711	7.782150147	8.074979616	3.113128961	3.097355717	3.102848333	3.497227884	-1.230948088	1.26E-07	0.0020995
9	NRARP	-	332	434	69	110	48	92	3.270870181	4.433856683	0.570638381	1.165476551	0.461399888	0.904013209	-2.263787968	1.28E-07	0.00214053
2	LPIN1	+	7746	5954	3897	3460	2899	3968	19.62695541	15.28123891	8.697624239	10.11097986	7.322149286	10.21021633	-0.945848664	1.29E-07	0.00216097
1	TNFRSF9	-	11	23	197	304	78	414	0.175552255	0.34271941	2.070887345	3.93571972	1.068021629	5.260179472	3.868187066	1.30E-07	0.00217222
1	LAMB3	-	29416	23907	50290	39160	51848	58163	162.0273237	136.551483	236.6150324	236.0490987	278.6427025	319.5311229	0.903276833	1.36E-07	0.00227179
9	MED27	-	2207	2536	5037	4507	4386	4690	31.99857649	38.12802171	61.30373573	70.2751068	60.61571424	67.82079759	0.972981299	1.36E-07	0.00227897
8	C8orf31	+	63	42	1	1	0	4	0.834681821	0.718152167	0.059386269	0.076082541	0	0.455832747	-5.129283017	1.38E-07	0.0023051
15	SLCO3A1	+	6964	6376	3582	3478	3634	3865	20.66008599	20.70948351	9.757872349	11.64650957	10.8762522	12.1733321	-0.873847401	1.38E-07	0.00231121
18	SERPINB5	+	15870	14224	11855	6718	7019	7982	112.0277131	96.69292664	77.09836241	49.56421823	49.74379392	63.88216899	-0.842131448	1.39E-07	0.00232153
6	MOXD1	-	1156	844	329	251	150	384	6.063456177	4.590622209	2.390680579	1.415864724	1.241101299	2.008886306	-1.844250767	1.39E-07	0.00232397
9	FAM214B	-	2362	1856	5564	3410	4558	3841	10.46711799	14.15890924	19.84944029	14.99542917	19.00941506	15.73957476	1.042215902	1.40E-07	0.0023307
21	SIM2	+	545	366	1766	1100	1591	1009	1.839135747	1.28075207	5.002586962	3.992046575	5.238397934	3.715519183	1.584962501	1.42E-07	0.00237629
19	CD70	-	811	765	2435	1724	1659	1649	17.32155185	16.94314692	38.5544424	39.59942103	30.46460439	35.12758751	1.244261196	1.43E-07	0.00239552
10	GSTO1	+	8846	8136	15998	12474	13983	13914	157.9686428	163.8016384	211.9636074	207.9259136	219.360327	218.2392276	0.730895596	1.44E-07	0.00240975
3	WNT7A	-	12958	10356	4527	5475	4315	7039	78.26977787	64.0861363	24.28290009	37.61540049	26.8960039	42.39622988	-1.126555096	1.47E-07	0.00245352
1	TGFB2	+	558	202	1099	2943	3124	1967	2.899729234	1.070436757	4.714409499	16.17405217	15.46006076	10.02556902	2.58701751	1.47E-07	0.00246203
11	FAT3	+	1515	1007	169	111	58	406	2.050665372	1.41939539	0.2163119	0.198536917	0.17592977	0.611625374	-2.761193749	1.48E-07	0.00247112
3	GSK3B	-	22102	20248	35498	35413	38650	40856	73.64141365	69.95832009	96.10969705	126.8933587	125.6466934	135.7713424	0.828533754	1.48E-07	0.00247568
7	HIP1	-	3017	2608	801	1247	1024	484	9.308806162	8.224465606	2.081331416	4.313571145	3.088223716	1.517186259	-1.661597772	1.50E-07	0.00250325
4	NSG1	+	98	79	10	0	0	0	0.924577931	0.903231641	0.376319242	0	0	0	-5.145677455	1.50E-07	0.00250605
1	MTR	+	10590	9344	17620	18254	16757	17827	24.13774128	22.08514198	33.49683519	44.45850813	37.21303039	40.46949023	0.82153229	1.51E-07	0.00251895
9	UBAP2	-	23642	24585	43655	40374	37478	41557	58.59925635	75.6328164	108.7161387	143.2283001	97.08349662	107.7935183	0.757525336	1.52E-07	0.00252987
19	PSG5	-	60	29	222	302	303	231	0.494993114	0.73744319	1.250862858	1.978900081	1.808550102	1.511509426	2.571390481	1.52E-07	0.00253494
22	SEPT5	+	705	461	214	55	130	115	5.466849627	3.183934076	1.66439236	0.924550254	1.781972975	2.147768872	-2.181727524	1.52E-07	0.00253584
21	N6AMT1	-	839	755	2154	1690	1653	1789	4.453191393	4.155497732	9.597138523	9.646765815	8.560384601	9.470686605	1.192475366	1.52E-07	0.00254439
10	NRP1	-	1232	991	3294	4420	3334	2070	3.794022356	2.595444558	8.317882763	10.77552139	7.723952565	6.006300016	1.560967927	1.54E-07	0.00257593
1	KLHL21	-	3020	3318	7123	5865	5264	5618	11.89488487	13.78517877	23.95625524	25.01102557	20.57767137	22.44981584	0.913099002	1.55E-07	0.00259451
9	TOR4A	+	3481	2905	7030	4903	6075	5716	21.66993059	18.75280906	36.7363062	32.82471932	36.89867767	35.4901179	0.893362819	1.57E-07	0.00261176
3	RAB6B	-	2628	2058	5425	3711	4763	4646	12.24478275	9.943465965	20.71379898	18.26891396	21.63734573	21.59069655	0.984601409	1.58E-07	0.00263592
6	PGM3	-	7660	6457	15042	10050	12089	11302	28.81666644	24.77757297	45.04700426	40.27269591	42.9643919	42.86861952	0.780045437	1.58E-07	0.00263945
15	ABHD2	+	7111	6896	13115	11500	11383	11194	21.13990826	21.04067077	31.00791746	35.84247674	31.54282431	31.88061872	0.75239432	1.59E-07	0.00265969
20	THBD	-	2094	1850	4174	3682	5321	3814	13.15929979	12.05575822	22.01887938	24.88430517	32.62574112	23.90553773	1.107039308	1.60E-07	0.00266976
11	MEN1	-	15389	15545	29774	23947	24367	24175	106.2505146	111.4744544	172.5617319	177.8104937	164.1472946	166.4749335	0.725018953	1.64E-07	0.00273323
16	BBS2	-	10740	8976	6194	4693	6223	5465	34.95900569	30.45086849	18.48307707	18.20438734	22.11658622	18.66692532	-0.804640898	1.67E-07	0.00278287
4	HMGB2	-	26219	21214	46799	35295	39716	36588	243.9750304	204.7003191	365.5548032	353.2060017	360.5834442	340.3060611	0.739591097	1.69E-07	0.0028246
3	OXTR	-	17932	14661	4936	8415	4587	7992	102.9212333	87.25825892	24.24488523	51.94168126	25.68715552	46.29562873	-1.329939944	1.71E-07	0.00284967
2	FHL2	-	23258	19192	40720	31037	33580	36253	92.23949479	78.9280698	135.562317	132.3965363	129.938026	143.4223823	0.737882918	1.71E-07	0.00285112
4	MAEA	+	21669	22498	15711	12429	13337	13061	59.73523741	65.86757248	37.44792754	38.13445103	37.46010378	38.93289125	-0.695707047	1.74E-07	0.00290276
14	L3HYPDH	-	743	953	3293	2765	1509	2291	6.727156595	9.126718932	25.32967695	23.45278036	13.49122916	22.3160645	1.539158811	1.74E-07	0.002909
14	PYGL	-	12434	11829	25244	37621	21157	32899	71.04945754	68.08748119	117.6243874	231.1883097	117.9546355	187.497001	1.268704225	1.76E-07	0.0029321
2	CAPN10	+	2415	2262	1195	1057	1129	839	8.484417689	8.128997309	4.271570924	3.942649416	4.008515832	3.073693831	-1.14834043	1.76E-07	0.00293309
3	PLCXD2	+	872	982	2481	2281	1834	2006	13.53993191	13.56102827	32.33801991	32.66821099	23.83004105	26.64447021	1.214030887	1.80E-07	0.00300053
18	DSEL	-	3950	3490	2468	1639	1584	1751	10.70165315	9.804961664	5.612877899	4.775494616	4.187164043	4.731530524	-0.999612231	1.85E-07	0.00309116
9	FRMD3	-	3509	3146	2076	723	1113	831	16.09126124	14.80489714	7.714615433	3.497265681	4.979811515	3.875073552	-1.488638798	1.90E-07	0.0031722
19	ZNF787	-	10149	10656	6822	6027	5764	5957	76.69561221	77.66297135	40.24866427	45.55540534	42.49934742	44.89899199	-0.760032431	1.93E-07	0.00321925
4	PIGG	+	5696	5533	3614	2940	3053	2865	13.68213153	13.78196519	7.229997407	7.579295881	7.218992962	6.860058234	-0.848536621	1.96E-07	0.00326544
7	ADCYAP1R1	+	6	0	217	50	36	87	0.032190493	0	0.763958011	0.255287071	0.161761518	0.367620323	5.022367813	1.97E-07	0.00327562
10	PI4K2A	+	6537	6410	11158	11465	11659	11564	40.29585447	40.97383477	49.72464598	65.45734236	60.39083079	62.96524708	0.824178022	1.97E-07	0.00327574
14	PRKCH	+	3213	2919	5615	6083	6027	6542	14.68434307	18.63651106	19.37759506	26.07682716	23.75197652	28.86027193	0.984566165	1.98E-07	0.00330818
5	PCDHA1	+	1457	1487	707	552	617	647	6.91978281	7.569795846	2.913483606	5.348607973	4.249567491	5.814094204	-1.222637465	2.08E-07	0.003469
10	CELF2	+	9649	9136	18831	13456	14397	17451	25.75008645	25.94199318	41.94641215	38.61873061	37.28267537	46.77796168	0.771530769	2.10E-07	0.0034934
4	TAPT1	-	1931	2309	306	813	214	507	10.14084887	10.9857266	1.387335795	4.810806256	1.145928218	2.796050741	-2.204358499	2.10E-07	0.00350671
5	PCDHAC2	+	2204	2308	1233	959	1021	1040	9.532998042	10.35190829	4.476799605	4.460896549	4.308783561	4.486554811	-1.085286213	2.11E-07	0.00352179
12	CACNA1C	+	95	39	0	0	6	2	0.498092056	0.185652594	0	0	0.381732672	0.481393462	-5.06608919	2.13E-07	0.00355367
1	RAB42	+	921	812	2265	1619	2609	1931	10.90926223	9.973750003	22.52115304	20.62377827	30.15232834	22.81286076	1.281233782	2.14E-07	0.003568
1	OLFML2B	-	281	276	97	33	53	26	2.405842693	2.339474947	0.697138883	0.474334478	0.442299068	0.322396873	-2.414174385	2.19E-07	0.00365368
10	FAM25A	+	574	459	1187	1379	2486	2000	42.96205454	35.62480805	74.57796572	111.0000174	181.5454201	149.3017404	1.77119222	2.23E-07	0.00371296
19	GDF1	-	1114	1097	323	441	336	436	11.46050392	11.70285566	2.789380175	4.879133978	3.372630973	4.473698763	-1.525520809	2.27E-07	0.00377495
9	FAM78A	-	16	14	204	59	110	169	0.104174043	0.094522297	1.114952502	0.400791959	0.698784468	1.097458141	3.175258446	2.27E-07	0.00378042
17	HOXB3	-	11825	10155	7425	4513	6615	6174	37.52111267	32.99982666	19.51075446	16.61275	21.63019694	20.63706594	-0.830104171	2.27E-07	0.00378072
3	RAD54L2	+	2821	2456	5599	5929	4458	5257	6.441264407	6.246567377	10.73161719	14.1633623	9.931597905	11.97202852	1.009197634	2.28E-07	0.00379679
22	RAC2	-	1058	827	320	207	53	110	16.61789839	10.84979287	4.750901557	3.878823495	0.947021906	1.767311618	-2.449896256	2.33E-07	0.00387967
16	PAPD5	+	3686	4066	1972	1538	2280	1651	11.69292518	13.37525011	9.188531606	5.526000296	7.415844633	9.148184683	-1.059072052	2.33E-07	0.00388376
10	ELOVL3	+	50	49	4	0	1	1	0.941726506	0.957012406	0.190977871	0	0.165752345	0.079983075	-5.044394119	2.33E-07	0.00388734
X	LRCH2	-	460	504	1287	1326	1126	1348	2.41279398	2.745222848	5.674734949	7.479827186	5.762511736	7.062069506	1.399710043	2.34E-07	0.00389073
11	FLI1	+	0	0	53	30	53	11	0	0	0.418363941	0.517777395	0.492367584	0.122006913	144269509.3	2.36E-07	0.00393343
3	PARP3	+	2367	2001	5015	3410	4542	4103	21.31136934	18.69518836	37.18955922	32.71023669	40.67997392	37.7261405	0.966418297	2.37E-07	0.00394841
6	LAMA2	+	257	229	753	665	722	833	2.131114381	1.209684549	4.074393218	3.99030572	5.879226019	8.571130775	1.612891244	2.37E-07	0.00394847
3	CADM2	+	11	17	306	81	98	107	0.449435995	0.850852113	0.697534171	2.235964551	0.256204931	0.299536617	3.402098444	2.38E-07	0.00395777
8	NDRG1	-	65692	47829	21778	13778	32095	10364	191.3273261	145.2050291	67.36011335	56.25890582	100.0139601	36.93885392	-1.541135759	2.38E-07	0.00396458
12	PTPRB	-	1479	964	559	351	419	497	2.92920281	2.211708604	1.118515415	0.93222215	0.990006126	1.243685528	-1.419967098	2.38E-07	0.00396458
19	CERS1	-	1418	1356	393	603	412	542	10.25365322	10.19353262	2.391539422	4.701119304	2.783608159	3.912266316	-1.508493664	2.40E-07	0.00398889
11	RP11-872D1	-	9637	10570	19433	22517	17590	17526	114.6236623	126.2403883	187.8811247	278.9027492	197.6666943	177.4967547	0.931239362	2.41E-07	0.0040048
11	GTF2H1	+	11136	11417	22100	18561	17903	17167	42.93793637	48.71887077	84.98125645	84.11249003	70.21397294	71.08173047	0.747564626	2.42E-07	0.00402464
6	HMGN3	-	6364	5122	12037	8938	9214	9675	188.4542477	157.2830896	299.2131557	284.6438082	266.2165133	285.7514602	0.795210012	2.45E-07	0.00407221
17	PLEKHM1	-	7813	6862	14727	10549	11762	11731	27.24856645	22.09505951	39.73391592	39.59279313	43.51483402	40.09643379	0.732603887	2.46E-07	0.00409443
12	C1RL	-	3695	2380	1651	856	1326	1337	19.02928006	13.13996357	7.651711946	4.255501119	5.840509887	7.363950735	-1.232720128	2.51E-07	0.00416794
19	IL11	-	40	12	374	249	151	142	0.442918367	0.145328719	3.035125288	2.58882882	1.424315916	1.369204841	3.13876407	2.54E-07	0.00422539
15	SLC27A2	+	522	561	156	182	91	153	5.432953444	5.393821925	1.422572227	2.159898815	1.070848403	1.68395136	-1.895942185	2.54E-07	0.00423074
15	TLN2	+	2472	2437	11370	4984	4222	5780	4.932946835	4.415393588	16.66932618	10.4639235	7.151443634	9.967945644	1.42463036	2.56E-07	0.00425452
10	ANXA8L1	-	155	108	639	381	458	456	2.848705924	20.22305023	7.43475929	5.750227514	5.905330204	8.516370485	1.87845309	2.56E-07	0.00426558
6	PPP1R18	-	7668	7226	14833	10772	13756	11271	43.05374551	42.0720322	69.9108361	65.04453464	75.3584619	63.11796814	0.76531821	2.58E-07	0.00428697
4	USP38	+	4711	4836	9088	8737	8026	8099	15.85818085	18.40168888	25.29746785	31.62920155	26.3603056	26.78645206	0.83029221	2.58E-07	0.00429881
9	GTF3C4	+	6247	6274	11529	10664	9886	10722	17.83820784	18.5776564	27.63490763	32.74805275	27.54300643	30.53635822	0.773294715	2.59E-07	0.00429991
4	TMEM155	-	30	29	0	0	0	0	0.459196339	0.471480072	0	0	0	0	-144269509	2.59E-07	0.00431066
4	FAM160A1	+	1519	1560	3141	3005	3398	3256	8.515812389	8.680763457	14.7816499	18.11750619	18.60287331	17.42660339	1.055610038	2.63E-07	0.00437656
12	TM7SF3	-	14193	13612	8441	7594	9257	7843	96.36961459	118.9187688	52.23152089	55.36527939	73.38708526	64.32896094	-0.746988418	2.64E-07	0.00439373
1	EDARADD	+	741	428	130	150	142	205	5.75464852	3.700509353	0.939919442	1.365296344	1.155181984	1.704773263	-1.898737582	2.65E-07	0.00439811
8	HSF1	+	31298	34278	21914	17871	21576	17664	163.434047	185.3130863	98.38600016	100.5225746	115.1925054	96.48533934	-0.730858773	2.65E-07	0.00440144
8	PLEKHA2	+	9659	9243	16814	22991	17545	25034	41.17135324	40.85475652	61.37757968	102.3998403	70.895747	103.4064812	1.123825283	2.65E-07	0.00440643
X	MAOA	+	37	4	323	1478	193	554	0.295064611	0.165800721	2.011302568	10.43851695	1.304671527	3.831369715	4.957597558	2.66E-07	0.00442047
11	DAGLA	+	611	546	258	99	88	85	2.741022937	2.539982942	0.983885467	0.514839445	0.431847168	0.444314343	-2.1263246	2.66E-07	0.00442822
16	SLC22A31	-	278	121	37	12	46	29	3.07828265	1.619187805	0.530781978	0.464772011	0.86166572	1.093531415	-2.686048626	2.67E-07	0.0044314
2	RAPGEF4	+	180	118	46	16	20	20	1.154492137	1.028201871	0.808674342	0.600435192	0.396137679	0.688624337	-2.546743178	2.69E-07	0.0044662
19	FCGRT	+	482	231	1383	1025	928	1370	4.841023673	3.030595107	10.17579494	9.963031438	10.58413885	11.02616681	1.722527339	2.70E-07	0.00447916
11	PSMA1	-	15402	16275	30563	23672	24802	25171	124.0912988	130.5159295	194.8480094	218.76022	198.2456938	194.6165666	0.717958422	2.70E-07	0.00448726
14	PPP2R5E	-	12408	12025	25489	22393	17041	22934	35.30979975	35.48503621	60.88817138	68.5316804	46.96314012	65.09310719	0.846326222	2.73E-07	0.00454279
4	ABCE1	+	17585	21072	36941	42535	32338	35736	80.21239107	104.0075719	127.8308885	197.9226506	140.9332462	162.8387485	0.932402335	2.75E-07	0.00457033
12	TRHDE	+	1481	1391	703	186	417	381	6.807153883	6.467538074	2.782220159	0.985545457	1.870068816	1.749105817	-1.767595776	2.76E-07	0.00458658
16	CLCN7	-	12632	12147	22647	20160	19322	19681	43.17475612	42.05016033	64.89900955	79.19730839	70.77716689	67.50237086	0.723159235	2.78E-07	0.00462131
14	SYNE3	-	158	166	478	554	760	611	1.245770457	1.114302216	2.535141285	2.294504207	3.068543404	3.838992481	1.89077093	2.78E-07	0.00462521
21	SCAF4	-	8761	8913	16208	17260	13718	16845	38.33719293	42.12917309	59.53642081	81.22562326	61.00903455	73.51896261	0.857141952	2.80E-07	0.00465008
18	RNF165	+	603	338	99	10	67	80	1.394728672	0.820243246	0.210591055	0.101055777	0.163997073	0.211884411	-2.878050913	2.81E-07	0.00466207
12	NCKAP5L	-	2687	2368	5398	4227	4384	5032	9.261090805	7.878665693	14.7215633	14.58552802	13.89683673	16.0193939	0.913326251	2.83E-07	0.00470544
4	ZNF330	+	2895	3232	6473	5917	5130	5511	29.64119651	34.31509554	55.61184011	64.81887384	50.98502887	56.27808336	0.910324298	2.87E-07	0.00476206
12	OAS2	+	109	68	419	293	466	345	0.473920415	0.323817095	1.452693397	1.304786305	1.884219238	1.444532568	2.105094676	2.87E-07	0.00477125
19	ILVBL	-	13289	12931	9681	7303	7452	7929	61.13494192	61.68733552	37.38557692	36.27351852	33.44884085	36.46568369	-0.696233182	2.93E-07	0.00486701

	1	ZDHHC18	+	5152	4995	9287	8222	7924	8468	24.79233495	24.92549357	37.38252625	42.55050118	37.07336674	40.4994487	0.740274578	1.47E-06	0.0241295
	7	CLDN4	+	31028	22862	14771	14274	13968	18255	196.1344883	148.9831052	77.13226306	94.94390461	79.27793868	113.2616994	-0.814883829	1.48E-06	0.02419796
	2	LTBP1	+	1761	1470	814	374	515	783	7.182560407	6.074370412	2.792696189	1.646485056	2.049454041	3.113449563	-1.378154454	1.49E-06	0.02435185
	5	TMED7	-	13549	13460	8764	7827	8630	8725	89.84699168	92.5567412	48.78489007	57.85381659	55.83649088	57.70633041	-0.67019864	1.50E-06	0.02464533
	8	TNFRSF10C	+	8	17	263	142	64	70	0.398797541	0.36445627	2.303347449	1.772295786	1.350451263	0.9656232	3.430285273	1.51E-06	0.02470154
	20	C20orf112	-	3762	2890	1806	994	1877	1420	14.15870772	10.69001239	4.869614998	3.713642791	6.106638289	4.83621546	-1.125688623	1.51E-06	0.02470894
	1	MAB21L3	+	524	630	169	108	30	149	4.190400054	5.224340168	1.134481893	0.928824337	0.240940609	1.188426133	-2.339537494	1.51E-06	0.02471983
	16	DUS2	+	2450	2367	4743	5145	3949	5131	17.7608773	16.05794899	32.95167076	40.93905635	24.37944458	38.2368626	0.977360739	1.51E-06	0.0247276
	22	LGALS1	+	50489	33002	109130	54197	83540	78393	1186.291234	804.084166	2152.411837	1454.161939	1915.137881	1837.103235	0.961900819	1.53E-06	0.02503022
	19	C3	-	19814	15005	45710	22169	59450	47328	71.54802093	57.38162407	127.4025238	81.60603915	195.1791095	164.4067106	1.32657779	1.54E-06	0.025166
	10	FAM21C	+	3604	3981	7639	6301	5940	6481	17.62890612	18.90379616	29.36387215	31.03024901	26.53918724	29.60014895	0.797184014	1.54E-06	0.02521525
	11	SAA2	-	14	10	92	56	114	90	0.19647281	0.591099702	0.969465692	1.196251652	1.953848045	1.678428327	2.874469118	1.54E-06	0.02526204
	9	PNPLA7	-	102	61	323	315	305	338	0.896785278	0.722737083	1.076467441	1.154797387	0.987569553	1.223992966	1.974326606	1.56E-06	0.02555391
	6	ZNF318	-	1803	1572	3737	2919	3218	2940	5.026159975	4.730099512	9.102502357	9.109001297	9.110623532	8.508638907	0.924761488	1.57E-06	0.02570486
	9	DFNB31	-	1245	1198	729	385	443	432	6.037289256	6.024155151	2.886699947	2.099253708	2.038929462	2.032511088	-1.296610587	1.57E-06	0.02574055
	12	PARP11	-	976	867	459	354	281	339	4.282482483	3.887391144	1.671866687	1.676150926	1.207095335	1.826907831	-1.363017461	1.59E-06	0.02597316
	7	DOCK4	-	3873	4073	8284	6923	7403	5646	10.80712679	11.10158527	17.87060982	18.25413915	19.50165414	16.00728649	0.83025655	1.59E-06	0.02607905
	13	MAB21L1	-	86	58	11	5	5	0	0.763916102	0.534246769	0.082021284	0.047764237	0.043333946	0	-3.777607579	1.59E-06	0.02610264
	2	AAK1	-	3183	2637	6283	4456	5089	4823	5.863309612	5.920220101	9.674663268	8.790487228	9.439999969	9.145501082	0.827120586	1.60E-06	0.02618306
	9	DNAJA1	+	55669	61768	100732	90962	89996	96176	526.554123	605.8426382	799.8042706	925.284377	830.5462623	907.3148797	0.685987693	1.63E-06	0.02667212
	16	ZNF423	-	36	16	0	0	0	0	0.208992147	0.103111688	0	0	0	0	-144269508.8	1.64E-06	0.02683625
	10	RBP4	-	72	67	0	0	8	0	2.146875447	1.679819013	0	0	1.538586649	0	-5.118941073	1.65E-06	0.02694605
	1	HLX	+	98	108	410	362	422	297	0.806427596	0.870266682	2.674437323	3.025214024	3.199524041	2.301866209	1.855564015	1.65E-06	0.02702995
	22	CSDC2	+	3700	2611	2131	1178	1154	1382	29.39751413	21.51208243	14.21277882	10.06560318	8.94593454	10.9516272	-1.110665599	1.65E-06	0.02707622
	4	HTT	+	31245	27858	20758	19243	17031	17192	45.58006831	42.76492314	26.82586098	30.5867189	25.6124326	25.1761089	-0.67134561	1.66E-06	0.02714586
X		PJA1	-	1979	1556	4698	2777	3129	3519	18.49512003	14.66035415	35.93288401	27.21158942	27.70936418	32.80139783	0.998264458	1.66E-06	0.02716442
	22	TOB2	-	14673	14282	10067	9058	8203	9214	82.99852615	83.77360206	47.80113357	55.10225981	45.2725751	51.98300672	-0.6642569	1.66E-06	0.02721845
	9	AL161784.1	+	261	163	680	650	581	730	37.44210415	24.24789495	81.88706711	100.2810164	81.32178363	104.4490092	1.638948132	1.72E-06	0.02822572
	17	ZBTB4	-	4471	3540	7991	5778	7049	6895	19.15877721	15.73015772	28.74424542	26.62724816	29.47146002	29.46857347	0.790508646	1.73E-06	0.02833536
	10	ITIH5	-	182	146	51	11	29	34	0.677961573	0.602468055	0.25702753	0.156974	0.137440996	0.180808323	-2.39176772	1.75E-06	0.02868903
	4	UTP3	+	4372	4472	2779	2373	2180	2581	54.48571407	57.79243409	29.07218708	31.80430157	26.50757572	32.08131955	-0.835377295	1.80E-06	0.02939567
	15	MPI	+	3645	3652	6735	6302	5926	6346	15.85608207	17.31390473	25.83854541	28.19515778	26.15199787	29.13859434	0.794275146	1.80E-06	0.02946213
X		USP11	+	19163	18108	33949	27319	26752	33536	98.0637503	111.9027448	149.8123226	175.1274508	137.1590195	181.7560177	0.705495674	1.80E-06	0.02948308
	1	MRPL55	-	6927	6824	11475	11113	12081	11025	94.94159728	96.98778974	140.6059731	163.7185296	161.5568043	150.7133313	0.732468202	1.81E-06	0.0296861
	14	BDKRB2	+	492	353	1714	742	1149	1133	1.855212218	1.380288585	5.393038763	2.940273216	4.331634816	4.261084316	1.487254952	1.83E-06	0.03000362
	17	C17orf96	-	1864	2004	3580	4358	3780	3862	14.91554708	16.62867688	24.04711444	37.50301091	29.51182742	30.8224583	1.010035533	1.86E-06	0.03044005
	4	RAB28	-	2697	3210	1895	1203	1447	1418	32.19709372	44.28314322	21.81412529	17.74161632	16.97217582	19.39455773	-0.986387275	1.86E-06	0.03046182
X		MSN	+	64447	58849	107628	85516	91720	103227	298.2899279	278.0149744	411.5990251	420.6891469	398.9686406	476.5307322	0.654268981	1.91E-06	0.03131487
	17	ADORA2B	+	1076	1146	2689	2541	2930	1850	10.89165954	12.02909907	22.848582	27.66126786	28.93746146	18.67734924	1.171511252	1.92E-06	0.03136421
	16	CMTM3	+	3108	2067	5698	3952	5098	5565	28.73441231	22.08606533	47.70559352	39.83576929	42.78508621	57.12398244	0.972772557	1.92E-06	0.03138405
	11	GPR137	+	7332	6723	14826	9244	11862	10714	45.39149755	42.9745852	76.68055436	61.28122697	71.34291127	65.87115087	0.730669918	1.94E-06	0.03167434
	18	VPS4B	-	20113	18482	13858	10697	12328	12689	126.3958914	120.9406458	73.10436763	69.74807589	85.14145432	97.23281395	-0.638888492	1.96E-06	0.0320862
	18	NPC1	-	9045	7185	15276	11996	13127	12340	24.1157732	19.3884336	35.12862275	34.76627541	33.00661837	32.83512239	0.700207216	1.96E-06	0.03210614
	1	ADORA1	+	3845	3681	1851	602	1870	1060	24.65511084	25.1827955	10.34078723	4.302011537	11.69939072	7.025173245	-1.483472864	1.98E-06	0.03235551
	16	NUDT21	-	32573	31583	22233	19029	21753	19140	155.0709056	161.4224462	99.24263778	101.8380726	105.6181989	94.92433875	-0.643235814	2.03E-06	0.03312359
	2	FNDC4	-	530	315	125	41	88	139	8.350051629	4.825341648	1.653141272	0.895810569	1.352717121	2.184186992	-2.104422029	2.04E-06	0.03333577
	10	FAS	+	3199	2832	1425	1591	1579	1441	26.69845779	25.41284999	9.507012436	13.4211036	12.74651993	11.67788133	-0.998804429	2.05E-06	0.03353942
	16	GPRC5B	-	353	274	1138	1737	589	1468	2.003784502	1.612848477	4.804689277	10.11888225	3.228078291	7.931126435	1.975635452	2.07E-06	0.03389777
	2	EIF4E2	+	14344	13523	10200	8327	8148	9147	51.60830257	61.84507082	37.76175597	40.98579453	31.0847389	35.65025285	-0.637711811	2.08E-06	0.03392064
	14	SLC25A21	-	640	749	282	181	144	292	4.536417817	4.869103075	1.67791071	1.379740077	0.995879033	2.064322993	-1.627653578	2.08E-06	0.03400393
	14	C14orf2	-	4056	3989	13266	12215	5103	10634	37.52583413	41.77267151	89.46909194	123.1259924	41.55358777	84.37273167	1.357110177	2.09E-06	0.03410015
	1	BLZF1	+	2560	2623	6386	4032	4180	4555	17.40512913	18.3959114	36.23635121	29.32665128	27.58313505	30.70994142	0.885711085	2.09E-06	0.03417164
	10	MSRB2	+	1175	1008	2766	1891	2210	2026	14.7860699	13.1535239	29.21821822	25.59128233	27.1342727	25.42822551	1.026358055	2.09E-06	0.03418925
	3	ECT2	+	26658	25267	18353	15600	15898	17297	127.7355037	125.5464507	77.33658908	83.51918084	73.81862839	85.55338104	-0.629084881	2.09E-06	0.0342237
	11	RELA	-	47751	43277	86616	60721	71659	67003	228.7630881	212.082776	343.6104332	308.6072327	330.4177129	315.8184715	0.651627814	2.12E-06	0.03469388
	3	SLC9A9	-	81	54	390	265	188	471	0.631901331	0.418266732	2.378625621	2.070648233	1.192782422	3.413166334	2.282933963	2.14E-06	0.03502446
	12	BEST3	-	17	39	265	471	110	187	0.12816829	0.298114714	1.259679148	2.785291762	0.619856677	1.12158847	3.205269617	2.16E-06	0.03525311
	7	RNF216	-	5266	5190	10770	8073	12671	8004	21.06574646	22.33912196	36.1658241	33.01741389	47.89044248	32.89808808	0.918178888	2.17E-06	0.03538767
	17	CNTNAP1	+	3793	3748	7406	5192	7551	6739	16.20237883	16.60206919	26.55622328	23.85153063	31.47106451	30.26328054	0.834134693	2.17E-06	0.03544368
	7	ASL	+	10259	8175	5560	5553	5352	5420	82.96565687	73.7535293	40.60596201	56.30066401	42.24316896	47.52797486	-0.752426772	2.18E-06	0.03563418
	6	TBPL1	+	3378	3623	7440	6039	5173	6166	17.31041707	19.2523132	32.00423762	34.0653668	26.47377727	32.25727334	0.825753946	2.20E-06	0.03588805
	10	CASC10	-	141	107	417	360	454	454	0.957885254	0.753780417	2.378028714	2.630162048	3.009270664	3.076181478	1.764336566	2.23E-06	0.03646352
	11	NUDT8	-	648	458	1654	1051	1630	1201	11.34423541	8.314428449	24.30649813	19.80081692	27.84189891	20.97031512	1.323492557	2.23E-06	0.03649207
	6	SMPDL3A	+	609	579	229	236	181	190	8.509569125	6.958607163	2.681686295	2.945505672	2.46762906	2.647924535	-1.506959989	2.25E-06	0.03666703
	22	TBX1	+	113	43	15	5	2	6	1.293396237	0.669031441	0.203339478	0.217634229	0.179959688	0.249640228	-3.478047297	2.25E-06	0.03667121
	2	RNF144A	+	5771	4088	3262	2445	2638	2642	25.24899602	18.77270209	12.12606311	11.82273412	11.43149503	11.66927142	-0.843715714	2.27E-06	0.03703928
	6	TNFRSF21	-	9052	7774	4925	4705	5596	4022	65.01864213	57.90346914	29.69519962	36.34449249	39.21769632	28.81357468	-0.805983702	2.27E-06	0.03704833
	2	ZDBF2	+	1173	1117	2766	1922	2319	2185	2.945863757	2.908938343	5.831140224	5.191031443	5.68232955	5.473029782	1.0050312	2.30E-06	0.0375967
	3	KPNA4	-	28663	26975	49517	44033	39416	43917	78.62955716	76.734795	114.0263375	129.9056656	105.498858	120.1596284	0.668652933	2.32E-06	0.03785528
	19	HAUS8	-	2676	2544	5301	4825	4142	4622	12.66960923	12.39450895	31.75909736	37.3441655	38.25330795	32.9652537	0.85550099	2.35E-06	0.03843412
	19	TBCB	+	22760	22170	16780	13127	14505	14301	150.1179884	157.6738438	92.85756563	93.06573025	100.3967415	94.07811561	-0.613999087	2.36E-06	0.03849214
	3	MYRIP	+	1360	936	359	215	477	487	6.917098972	4.936596465	1.532731893	1.388506381	2.43816352	2.656739241	-1.578067139	2.40E-06	0.03922509
	3	LAMP3	-	395	394	1121	797	1026	958	3.048339992	3.303088824	7.262039134	6.208356724	7.72546612	7.373837151	1.306116573	2.41E-06	0.03932246
	11	PICALM	-	65326	67066	115609	95962	115719	94201	296.9296197	337.1787413	463.3763568	515.250771	505.5428689	449.9451752	0.670685878	2.41E-06	0.03941166
	5	FAM153A	-	40	12	0	0	0	0	0.383259975	0.752510066	0	0	0	0	-144269508.8	2.42E-06	0.03951983
	11	CASP4	-	5913	5266	11425	7957	8305	9433	25.59274531	26.72099976	34.55395102	49.44437358	32.16589234	36.63741098	0.731405571	2.44E-06	0.03976468
	10	BLNK	-	77	37	0	6	0	2	0.885264845	1.548034705	0	0.997729136	0	0.216424792	-4.832890014	2.46E-06	0.04012962
	14	SAV1	-	16007	14060	10660	9733	7324	8455	73.41652001	66.87069985	41.04192466	48.00828636	32.77503838	38.67757053	-0.733307558	2.47E-06	0.04035404
	15	NMB	-	1897	1001	654	472	662	502	47.93013805	26.61727242	14.07755351	13.01638554	16.31963201	12.83891183	-1.339709997	2.47E-06	0.04037785
	4	SCD5	-	3366	2645	7480	5784	4305	8200	19.3666056	15.56244335	37.22994096	35.78930887	24.16704639	46.40459498	1.099959627	2.48E-06	0.04049056
	3	PLXNB1	-	11386	8543	5736	5113	6169	6211	30.31040155	24.20424753	12.95275229	14.64555571	16.03466259	17.51083869	-0.778942272	2.52E-06	0.0410461
	14	FOS	+	2830	1030	827	468	749	622	22.95121182	8.675722242	6.964274424	4.693542698	5.936009098	5.430281435	-1.533924067	2.52E-06	0.04109994
	11	INSC	+	0	0	104	31	51	2	0	0	1.157239625	0.646301769	0.480520634	0.148870232	144269509.6	2.54E-06	0.04135955
	13	GJA3	-	30	59	0	3	2	0	0.148659417	0.303172553	0	0.016493839	0.009975987	0	-5.153805336	2.62E-06	0.04278152
	9	GPSM1	+	974	691	3962	1504	2706	1553	5.090217594	3.744744021	17.36709117	8.446162174	13.79800209	8.088334982	1.546176073	2.64E-06	0.04303812
	4	GRPEL1	-	10514	11646	7071	7038	6528	6168	64.99736373	74.65712355	55.23276167	48.15130777	59.26802105	39.13625665	-0.725455746	2.66E-06	0.04335008
	17	ERN1	-	1517	1655	3629	3185	2734	2828	3.887286651	4.524773466	7.769102393	9.030820553	7.033017186	7.03233253	0.964080426	2.66E-06	0.04341437
	1	AGT	-	28	20	0	0	0	0	0.384994644	0.257593232	0	0	0	0	-144269508.7	2.67E-06	0.04346516
	3	FBXO45	+	6932	7002	12357	10706	12052	10204	29.95299196	31.37404103	44.82098194	49.75016506	50.81030506	43.9758083	0.701506559	2.69E-06	0.04387866
	11	CADM1	-	17031	13202	30979	33164	20934	34034	45.95849931	38.07707148	72.00304988	92.01403863	100.0604546	147.3655619	0.978110605	2.70E-06	0.04394435
	22	HPS4	-	4273	4060	8412	7029	6034	6828	9.952914271	9.78698911	16.41505348	17.5378461	13.67356956	15.81545722	0.764047096	2.71E-06	0.04411394
	9	PALM2-AKA	+	20512	17220	34038	30578	27234	29756	64.8779706	56.47927245	89.94359278	104.0121218	84.04496588	93.86972026	0.688353935	2.74E-06	0.04460271
	19	RPS11	+	166134	165745	131173	95547	111711	101813	3086.28456	3192.89457	2045.542748	1908.886608	2024.810608	1886.437425	-0.592354002	2.74E-06	0.04462321
	10	OPTN	+	21660	14924	36863	24812	37046	31502	119.6635793	85.49790535	174.5776619	147.4181444	189.2821185	164.5345449	0.831699551	2.74E-06	0.04464072
	7	FASTK	-	19888	19835	35951	27335	29298	31865	136.0759767	141.4805955	206.4847529	201.3518405	195.5867125	217.4532969	0.647508149	2.75E-06	0.04482061
	7	RAB19	+	1130	1122	2430	1972	3138	2403	28.19228898	29.02762138	55.32841565	57.5238358	76.38636744	59.79534702	1.14247438	2.75E-06	0.04484538
	17	SOCS3	-	1733	1307	4203	2826	4065	2365	16.41590976	12.83833426	33.38372263	28.75719336	37.52842017	22.31935187	1.146427993	2.76E-06	0.04490301
	2	CHPF	-	10813	10267	8227	4311	6144	4618	83.24830304	81.96707666	53.16885992	35.69380447	46.15209468	35.46049878	-0.855544912	2.76E-06	0.04500284
	3	AMOTL2	-	45779	43101	79889	59809	74937	65098	204.8365592	193.9676586	291.0374846	279.143456	315.9815035	290.5163247	0.654119736	2.79E-06	0.04544371
	20	GGT7	-	116	67	14	20	9	5	1.150295058	0.776307532	0.37007785	0.673215215	0.323004569	0.254491603	-2.930737338	2.79E-06	0.04551281
	22	TEF	+	1790	1994	1163	712	793	934	10.52405101	12.15686979	5.348859422	4.499847718	4.54691047	5.476946699	-1.071113907	2.82E-06	0.0459829
	7	UPK3B	+	2863	2538	1502	848	1557	1160	38.909889	35.76818963	17.13543921	13.9508698	20.64611204	15.72383066	-1.092094719	2.84E-06	0.04630874
	6	NEU1	-	2267	1950	4531	3711	3389	3704	12.13994052	10.82845131	20.36787707	21.37182572	17.70710779	22.31980674	0.86253924	2.86E-06	0.04652271
	6	NELFE	-	11972	12052	25015	16066	20877	17260	118.1286471	144.7148846	199.4206873	182.0297309	201.6031345	185.5273526	0.721351898	2.87E-06	0.04667953
	19	PSG8	-	0	0	44	15	9	63	0	0	0.483152729	0.242887414	0.131830935	0.599828711	144269509.1	2.87E-06	0.04675133
	21	TIAM1	-	5368	4408	9195	7403	8188	7668	17.49504629	14.78729732	22.78097073	25.75573225	25.84457404	22.72564914	0.731080113	2.88E-06	0.04690104
	1	DENND2D	-	6089	6438	11962	8692	9716	10227	30.13242915	33.84160673	54.34671404	44.77424399	45.56745468	47.77648922	0.696332165	2.89E-06	0.04700382
	1	LRRC8B	+	6899	7548	3388	4378	3627	3931	22.16309397	25.06652747	9.136383247	15.07845948	11.33324204	12.58591955	-0.914977009	2.89E-06	0.04702564
	13	TSC22D1	-	12283	10493	8447	5594	7532	6057	45.59708962	41.10740829	25.57578902	23.0552232	26.99728158	22.73321344	-0.721278836	2.89E-06	0.04704206
	9	ZNF462	+	5951	5418	10339	8896	8745	8991	12.97539136	13.05116875	18.92324948	20.85983749	18.51778841	19.87632283	0.701288704	2.90E-06	0.04716163
	17	NPB	+	586	461	1918	913	1685	1120	7.002209396	5.71222231	19.2385681	11.73258978	19.64483595	13.34803158	1.428410169	2.90E-06	0.04723818
X		MXRA5	-	50	39	0	0	4	1	0.141181743	0.110507497	0	0	0.012553242	0.005184088	-5.153805336	2.95E-06	0.04810933
	9	PAPPA	+	1761	1124	5211	2167	3872	2912	4.110720479	2.746340155	10.30692356	5.491182277	8.901592105	6.843439203	1.295381798	3.00E-06	0.0488186
	4	SEC24D	-	3741	3147	10117	5057	7631	5236	21.82078805	10.72231092	26.22843848	17.83282989	34.61615655	31.22269621	1.025380752	3.01E-06	0.04897958
	11	CTSF	-	22	25	0	0	0	0	0.370330572	0.499940562	0	0	0	0	-144269508.6	3.12E-06	0.05079876
	11	MPPED2	-	116	100	4	11	28	10	0.44075461	1.014657693	0.253520332	0.236432975	0.350095275	0.222405442	-3.026967048	3.12E-06	0.05086469
	15	ISLR	+	53	68	1	0	8	4	0.549186783	0.681701057	0.83369186	0	0.252575001	0.069186166	-4.218423519	3.14E-06	0.05109253
	17	KRT16	-	2539	1788	13553	3525	4812	5802	30.38110078	27.11038954	118.6968364	39.55139389	48.98393651	60.37490923	1.678030227	3.19E-06	0.05196326
	8	MROH6	-	5998	4977	1844	2193	3560	1893	35.176289	30.26759386	9.308458902	13.83145353	20.37063563	11.08786981	-1.209740947	3.21E-06	0.05230607
	8	BOP1	-	5520	5717	2952	3157	3100	3335	47.63977847	48.8927052	20.9246297	32.41045949	28.87338438	33.538237	-0.841259459	3.22E-06	0.05234659
	11	RP11-664I21	+	28	9	157	129	78	130	2.51048591	0.836775516	7.134444804	12.438703	6.823471518	11.62531781	2.738913866	3.23E-06	0.05255852
	9	KIAA1984	+	716	924	2519	1349	1833	1827	7.17170396	12.29099774	18.42166487	16.9587606	15.58072039	16.55649657	1.198570813	3.24E-06	0.0526445
	2	MYEOV2	-	6159	6021	4192	3277	3655	3605	78.07489698	79.06974606	62.19421162	62.28795909	63.02900243	56.82077939	-0.725854649	3.24E-06	0.05279157
	19	RASIP1	-	267	221	90	29	46	70	2.203423328	1.747173442	0.578026356	0.678461416	0.433410768	0.595973063	-2.054220391	3.25E-06	0.0528451
	16	SETD6	+	3041	3568	2313	1481	1588	1367	18.03516999	21.59576883	11.33285738	9.665701297	9.560009061	8.481443061	-0.969758242	3.26E-06	0.05301697
	4	SCOC	+	3299	3054	5683	6597	5641	5583	14.28118063	14.27660573	21.63411342	31.30010797	23.5183459	24.14570174	0.887396377	3.28E-06	0.05334414
	17	TOB1	-	9415	10403	6494	5126	6759	5489	96.43611883	110.4955264	62.89717085	56.46555899	70.60060312	56.07565495	-0.731733693	3.29E-06	0.05346846
	1	CD247	-	28	19	0	0	0	0	1.133260098	0.545294227	0	0	0	0	-144269508.6	3.30E-06	0.05371347
	1	CAPN2	+	17694	15239	26364	26770	31808	27278	52.71077056	48.41047655	65.40006374	84.57409745	91.1697483	79.90589408	0.768723974	3.34E-06	0.05429896
	16	ATP6V0D1	-	10504	9795	17911	13776	16914	15387	42.49346184	57.26613924	48.83504747	138.1087647	57.75784002	69.76853242	0.656392717	3.37E-06	0.05475906
	2	PASK	-	4049	3939	2749	1789	2147	2242	10.21332891	10.14171925	6.013451608	5.012688763	5.447908463	5.836622014	-0.839658907	3.38E-06	0.0549819
	4	TMPRSS11E	+	355	267	70	91	110	62	4.291601115	3.347102064	0.710355424	1.254757505	1.297462173	0.865933901	-1.901392403	3.40E-06	0.05528221
	9	ZNF618	+	2484	2374	1042	888	1407	1210	6.756788974	6.696319646	2.391358376	2.597690228	3.734168273	3.282735253	-1.095447486	3.53E-06	0.0573723
	1	OBSCN	+	1393	1038	2173	2711	3483	3268	1.161566898	0.955558687	1.548997721	2.479492013	2.760189458	2.669898176	1.258849412	3.54E-06	0.05750612
X		ELF4	-	10133	8601	19405	12551	16057	13263	60.62459515	53.36130649	97.45656951	80.75599441	93.73164511	79.14332704	0.709663153	3.54E-06	0.05750612
	14	NAA30	+	4366	4152	9310	7887	5721	7919	14.73140817	14.52728893	26.36919529	28.61923384	18.83404061	26.64971686	0.856075783	3.54E-06	0.05753951
	10	ACTR1A	-	13830	13387	23842	19412	19730	23619	83.9295434	82.5757297	119.0506598	126.6918255	114.5092493	142.9604516	0.669908948	3.55E-06	0.05767506
	4	CTSO	-	134	45	424	345	384	400	1.17134965	0.47739966	3.111245451	3.243295204	3.275095751	3.487413706	2.117026337	3.55E-06	0.05772259
	12	CALCOCO1	-	3509	2260	8200	3879	6668	5762	18.02464532	11.12828343	34.07651543	22.28389017	29.50403377	30.58485539	1.086918453	3.59E-06	0.0582924
	12	ADAMTS20	-	36	13	0	0	0	0	0.484670004	0.291295912	0	0	0	0	-144269508.7	3.63E-06	0.05903616
	7	PAXIP1	-	8913	7982	15504	13203	11794	13636	27.36655659	23.77447713	37.37372369	40.78409289	33.05252937	39.5394108	0.680018592	3.65E-06	0.05927654
	9	FIBCD1	-	0	8	304	29	43	191	0	0.420028494	1.799426668	0.356027277	0.456534903	1.65015736	5.147204925	3.67E-06	0.05967716
	7	ATP6V1F	+	5487	4985	11363	7359	10562	7579	179.576789	169.1792526	312.1726941	259.0118748	337.2658961	247.3938353	0.815636483	3.67E-06	0.05971548
	3	NXPE3	+	2445	2146	5508	3513	3997	3683	7.003342678	6.336904304	12.60466046	10.75832139	11.16799849	10.01414785	0.863054152	3.68E-06	0.05982586
	2	MERTK	+	808	759	1772	1459	1565	1734	5.865698555	5.238042199	10.42046971	10.84201665	10.03031486	11.8772314	1.059077812	3.70E-06	0.06010556
	11	RELT	+	4105	3920	7479	6600	6455	6246	16.76682821	17.03149776	25.6510628	28.99127528	25.72438633	26.00435187	0.738582663	3.71E-06	0.06034768
	9	TBC1D2	-	10561	15386	45980	25470	20092	23086	76.53876759	115.6295534	279.7254966	198.5139351	142.0726939	166.8732939	1.143319843	3.73E-06	0.06066885
	7	EEPD1	+	1239	1176	2488	2373	2513	2289	6.714298519	6.73141051	11.2424138	13.73744275	13.19854442	12.60200202	1.000447972	3.74E-06	0.06082629
	3	CDHR4	-	81	68	14	4	13	8	0.746730955	1.113653531	0.369627085	0.544512306	0.280656926	0.424817323	-2.933766302	3.75E-06	0.06084562
	4	BMPR1B	+	82	99	10	20	6	2	0.440394248	0.503974303	0.053336586	0.123697673	0.044046078	0.015008479	-3.251918374	3.79E-06	0.06151732
	19	VAV1	+	1086	1033	2282	2239	1866	2395	7.99396947	8.579544496	17.78662547	22.8509062	16.18336282	18.41258142	1.051165947	3.79E-06	0.06153884
	17	GJC1	-	11645	10475	18939	20600	16356	20829	34.72272858	34.01906039	47.40433527	69.3832176	49.04533359	61.94474901	0.794326552	3.80E-06	0.06175116
	1	MR1	+	381	349	998	736	941	952	1.271911525	1.190308109	2.335129143	2.504449692	3.019728614	3.019498991	1.312808376	3.89E-06	0.06313206
	20	PARD6B	+	2560	2630	1114	1355	1259	1339	13.98744825	14.90119074	5.109405634	7.962023473	6.711742419	7.29694091	-1.03460271	3.92E-06	0.06363049
	11	HYOU1	-	42109	51226	30077	24223	32029	28505	143.3545849	180.9351276	87.07742777	106.7569912	131.3822925	104.1767353	-0.700940231	3.95E-06	0.06413244
	16	ITFG1	-	4658	4461	2359	1437	2989	1604	18.4562731	18.32919725	7.904414365	6.704582225	11.34980124	6.338852009	-1.120376779	3.96E-06	0.06422324
	4	ETFDH	+	1015	976	2300	1854	1785	2185	6.02932434	6.315653193	12.04803606	12.44219831	10.24184152	12.81568941	1.028697019	3.97E-06	0.06442889
	7	ZNF425	-	490	427	1480	918	1021	996	3.760133429	3.522396996	9.883075404	7.853659015	7.644409467	7.806309195	1.267419799	4.01E-06	0.06514604
	11	PPP2R1B	-	8058	8376	14098	12118	12785	13090	31.17225626	34.26777924	45.47441723	51.40039814	52.21427237	51.49336525	0.664350461	4.01E-06	0.06517844
	3	PAK2	+	34933	32724	57873	47882	54039	49614	143.8897503	142.7340843	204.3418267	216.5970437	217.1415987	208.1085105	0.630005446	4.06E-06	0.06597224
	12	TCHP	+	5373	5305	10890	7959	7695	8595	13.9903562	14.34568891	24.52483254	24.33096057	20.03209054	22.28534774	0.718431681	4.07E-06	0.06603676
	14	MNAT1	+	3934	4217	9032	7771	5492	7774	31.13217955	34.60552719	59.99924205	108.3885795	69.5313594	52.00412295	0.883227918	4.07E-06	0.06613987
	1	RBM34	-	6515	7133	11312	11633	11187	11306	60.82113061	64.00771856	90.08037482	116.7931651	94.45350695	97.58074555	0.735209783	4.13E-06	0.06699376
	8	KCNK9	-	14	8	78	62	74	89	0.627621478	0.280752991	2.074511769	2.112574126	2.287585732	2.812460085	2.783742365	4.14E-06	0.06715948
	11	SART1	+	31802	35778	61159	48359	50734	51399	191.8681592	221.6102108	306.6578237	364.0378428	324.2543065	306.2128444	0.647019049	4.14E-06	0.06715948
	5	EMB	-	11100	11365	7741	4108	6793	6647	58.54284371	62.15656038	32.48670394	23.30058911	34.95614029	33.14433597	-0.829169072	4.23E-06	0.06857925
	1	ERRFI1	-	3732	4096	8070	7707	5842	6437	23.90677982	26.20110856	41.78815719	51.12861291	35.1613545	39.60392731	0.841593675	4.23E-06	0.06868001
	14	C14orf64	-	126	198	975	559	318	745	1.229161216	1.380679601	3.622572616	2.742668082	1.442528867	3.279852976	2.002780296	4.44E-06	0.07201857
	1	SRP9	+	9235	8994	13729	16507	18541	17791	139.2917466	140.6721307	173.8257267	267.7578836	272.8554682	267.6397213	0.868593403	4.48E-06	0.07261111
X		GABRA3	-	81	119	19	4	4	21	0.572255377	0.858416262	0.409794805	0.304330166	0.050540334	0.186562799	-3.058893689	4.48E-06	0.07271373
	19	LYPD3	-	752	520	2740	1128	1235	1834	10.58792251	7.592118095	23.57769277	14.18691303	14.09195205	21.39213999	1.447213214	4.48E-06	0.07273113
	20	TMEM239	+	21	13	140	81	90	80	0.280966299	1.014864766	0.737457684	0.535057169	1.069571733	0.494447808	2.523561956	4.49E-06	0.07276961
	4	SMAD1	+	2034	1891	4018	3682	3076	3723	22.5707926	9.555568979	18.73394734	24.18391909	27.52053985	20.85345595	0.885188841	4.49E-06	0.07278455
	11	ATG2A	-	14378	13142	24516	19462	20739	20377	47.80720324	46.24798562	70.07893056	69.59338448	68.57030929	69.25316307	0.628576941	4.49E-06	0.07279934
	3	DNAJB11	+	21391	25112	14837	14577	14259	14499	91.45056518	115.0221376	55.01310968	69.24480849	61.45164686	63.87533759	-0.676998884	4.49E-06	0.07283696
	3	EIF4E3	-	4296	3672	1615	1563	1951	2512	15.97751935	9.088969331	5.163994865	4.130634705	4.583568564	9.75357005	-1.060456187	4.57E-06	0.07405786
	4	HPSE	-	1569	1563	4634	3224	2299	3084	8.778968343	9.068724638	21.76522861	18.96439133	12.55077471	16.82419675	1.079855965	4.59E-06	0.07450575
	7	FAM20C	+	5009	3981	2806	1262	2571	1907	34.56523336	29.20507028	16.63643964	8.529058425	20.26108547	13.7805632	-1.073071799	4.64E-06	0.07526422
	22	CHKB-CPT1	-	6688	5306	4064	2886	2852	3832	31.11123719	25.5949898	15.86943193	14.43786495	12.94438919	17.77903737	-0.81510399	4.66E-06	0.07553494
	2	DYSF	+	1696	1228	3052	5341	3738	2908	6.100341383	4.580294007	9.215087958	20.66029414	13.11833182	10.43240452	1.362693424	4.66E-06	0.07562558
	12	PAWR	-	14496	13950	24399	20853	20780	22403	32.70293141	32.02748781	45.34617507	49.95604481	45.16379619	49.77391205	0.63639166	4.67E-06	0.0756508
	19	AC104532.2	+	414	257	123	103	93	62	18.43166601	11.86489973	4.596804427	4.93159163	4.039784729	2.753072609	-1.816521769	4.67E-06	0.07578883
	16	WDR90	+	9951	8040	6049	5449	5499	5200	24.89884913	20.44497671	12.50052946	14.40040212	13.18459894	13.31381461	-0.696910674	4.68E-06	0.07581838
	10	FBXO18	+	9166	9664	16539	14320	13439	14843	41.04139804	42.17261323	64.45508295	72.43501414	52.55929142	65.52533234	0.651125638	4.72E-06	0.07645417
	5	F2R	+	748	451	248	100	138	225	5.05494931	3.1605193	1.40686865	0.726776436	0.909924412	1.516559487	-1.753910194	4.72E-06	0.07652351
	2	STRADB	+	1713	1483	3909	3089	2971	2484	14.71011878	14.09656332	27.74441338	34.72952398	26.12650359	23.22116252	0.962154024	4.72E-06	0.07657895
	11	SNX15	+	7562	7296	15304	9294	12735	11328	39.72879526	39.74845438	67.49325041	52.51181407	65.27978198	59.35860526	0.711526037	4.75E-06	0.07695558
	7	NPTX2	+	16	30	0	0	0	0	0.168290938	0.390332602	0	0	0	0	-144269508.6	4.76E-06	0.07718763
	13	ITGBL1	+	1691	1747	939	884	591	642	9.439092106	9.848231251	4.551375909	5.426346778	3.218734245	3.480930787	-1.169925001	4.78E-06	0.07742861
	10	DRGX	-	3	2	105	30	25	44	0.138828714	0.027834529	0.916993867	0.380412707	0.253770713	0.456567369	4.350497247	4.92E-06	0.07965951
	3	ATP13A3	-	43182	43332	69729	65937	69573	66514	127.4636127	135.8656924	166.826158	192.765439	193.5777975	189.5582774	0.651290443	4.96E-06	0.08039537
	16	SHCBP1	-	6281	6085	3785	3080	4140	3502	40.28536173	40.47116952	21.05842298	21.953797	24.76956433	23.15000895	-0.769629705	4.97E-06	0.08051568
	1	C1orf228	+	47	28	230	104	192	196	0.986699689	0.718840712	2.274396588	1.581650204	2.090456536	2.258564583	2.267036336	4.97E-06	0.08051568
	22	XRCC6	+	114007	119193	89013	73643	73569	74431	897.5319529	973.0515519	588.245351	640.6878161	580.6778208	600.5441501	-0.58624987	4.98E-06	0.08075374
	4	MXD4	-	8075	5651	4816	2006	3646	2753	29.54289982	21.4389048	14.79052988	8.091049531	13.01482337	10.0456612	-1.054079957	5.00E-06	0.08107146
	14	LGALS3	+	8279	6268	16214	10003	10488	13057	91.24263919	84.25556521	155.0990623	122.9679445	116.9196503	145.2601132	0.774322811	5.07E-06	0.08208208
	16	N4BP1	-	4113	3752	2083	1940	2513	1928	14.18734506	13.42060053	5.836489625	7.528514198	8.514445611	6.987724854	-0.894107138	5.07E-06	0.08210974
	10	NMT2	-	3941	3378	8587	7083	4997	6480	22.10361791	18.55046886	39.31806337	43.25837123	27.16793241	36.7032077	0.891074325	5.08E-06	0.08232763
	8	LPL	+	6793	6910	11537	15862	11168	16228	44.49766677	48.66591323	62.64425792	110.3431274	70.48361021	104.6956014	0.999552477	5.10E-06	0.08263204
	2	C2orf88	+	128	148	38	26	38	35	0.748467849	0.897411423	0.204744608	0.204713161	0.237387935	0.249076888	-2.010492374	5.15E-06	0.08347315
	15	RPP25	-	5867	6352	3813	3245	4036	2957	49.68793048	55.78430255	27.10742656	29.55528506	33.35008932	24.97743686	-0.79845341	5.20E-06	0.08419387
	8	SOX7	-	2373	2555	6550	5175	3684	4114	16.55659014	18.48548127	38.36198965	38.83015684	25.0786298	28.62853812	0.9861006	5.21E-06	0.08441302
	16	ORC6	+	5073	4334	2675	2266	3062	2579	30.40049205	28.27746656	13.45631674	14.60364567	17.95325092	15.41447784	-0.830194287	5.24E-06	0.08488996
	14	RP11-47I22.	+	304	317	742	833	825	877	10.07693299	10.89634253	20.64644847	29.69514289	49.60702627	28.99453214	1.399710499	5.25E-06	0.08502289
	1	RGS4	+	104	116	607	477	303	285	0.992792104	1.103414108	4.674005304	4.672434172	2.600984661	2.703516321	1.925999419	5.25E-06	0.08505482
	6	RUNX2	+	1189	755	2340	1906	1966	2053	4.123912076	2.832632264	6.969196585	7.272583575	7.001993869	7.264920527	1.087986601	5.28E-06	0.08554557
	6	IGF2R	+	18887	15547	29839	24781	27455	25878	52.28374498	43.82096487	68.70510054	73.77482126	72.81168992	71.44899769	0.648497651	5.30E-06	0.08572897
	22	BIK	+	913	603	187	255	282	310	24.73831537	16.9427286	4.253315658	7.430621768	7.45520304	8.377660616	-1.552033568	5.34E-06	0.08638342
	11	MUS81	+	11306	10617	21336	14255	19057	15912	53.31357265	53.75107977	84.455604	72.29057146	87.69476701	74.83681575	0.686405327	5.34E-06	0.08646935
	5	FGF1	-	967	932	2674	1959	1457	2591	6.660445491	6.656706585	15.46054757	14.51098427	9.44140361	17.79942374	1.192621337	5.37E-06	0.08687283
	10	HOGA1	+	2	4	33	36	76	50	0.204937625	0.41675979	0.308988171	0.272776151	0.540437788	0.578753937	4.022367813	5.39E-06	0.0872186
	19	DKFZP761J	+	8230	7731	13934	10844	13745	12075	68.00518999	65.42717081	96.65063095	98.21893803	107.2789431	99.4201387	0.664529317	5.40E-06	0.08736378
	9	ADAMTS13	+	183	166	590	426	491	494	0.957926569	0.836775516	2.402109904	2.234197237	2.316126002	2.410067779	1.519422226	5.42E-06	0.08762112
	11	FXYD6-FXY	-	126	113	30	5	28	10	9.216968102	8.571615484	3.715883718	1.388506381	4.03109702	0.929767156	-2.711042249	5.43E-06	0.08784177

9	RP11-216L1	+	3105	2903	5952	4357	5182	4930	59.17176912	65.46702471	87.3496836	92.43273191	88.39346969	93.70474728	0.765096798	5.50E-06	0.08693949
16	AMFR	-	37891	34049	24386	20594	25117	22920	187.7797238	178.5593076	105.8027726	103.4547772	120.8568348	123.6736415	-0.625283335	5.56E-06	0.08692359
19	PPP2R1A	+	46018	46403	34713	27336	30718	30258	276.0239696	242.2547507	153.0279812	174.7925878	190.5268929	182.5014474	-0.587341088	5.57E-06	0.09010213
22	LOC1CL	-	11938	9997	8153	5886	5944	6674	51.86984351	48.71480158	32.16093413	29.74612761	27.25300351	31.2804127	-0.658277391	5.58E-06	0.09028393
9	GSN	+	14870	9350	8021	3385	6085	6304	46.46922832	67.04660749	41.47497676	28.16113901	32.68820011	45.28777812	-1.025540411	5.61E-06	0.09079008
4	MRFAP1L1	-	5720	5429	4197	2876	2799	3206	67.75350704	66.68409947	41.73124914	36.83618672	32.34618674	37.8737264	-0.769772386	5.63E-06	0.09109893
10	FAM53B	-	3714	3657	2122	2043	2081	1986	16.30733394	17.33147221	7.160094534	10.0414155	8.465921108	9.052833859	-0.840617376	5.64E-06	0.09122104
11	TMEM80	+	723	828	2209	1347	2135	1393	4.585951313	6.367376241	11.76179275	9.188449498	13.21295771	8.816930069	1.191360526	5.66E-06	0.09154404
10	CUEDC2	-	6871	5809	11519	9978	9299	10135	125.6543409	110.16043	176.8312393	190.3394442	165.9223229	184.8600329	0.680028127	5.67E-06	0.09164557
2	EDAR	-	142	120	28	36	13	28	0.873034284	0.794760817	0.192859127	0.297090329	0.116433215	0.23068695	-2.291956015	5.67E-06	0.09167704
9	RFK	-	6840	7288	5286	3760	4288	3778	50.37747947	52.31956516	32.95334704	28.28638575	29.04123659	25.28604229	-0.721505093	5.67E-06	0.09170933
20	ENTPD6	+	26589	24095	14964	16160	15762	16261	128.0815758	121.116641	60.98129154	84.2435259	74.5472588	78.73561552	-0.882816191	5.77E-06	0.09322368
2	ZFP36L2	-	20978	21353	17198	11419	13570	11035	146.5630058	154.6984207	100.8613785	85.79737213	92.50200849	76.88433486	-0.869691845	5.77E-06	0.09334117
2	CFLAR	+	7335	6280	11125	10109	11416	11496	8.683541295	5.576068106	10.7625355	12.6017067	12.99529363	13.08258661	0.694141531	5.77E-06	0.09335507
1	PFDN2	-	7571	8479	16440	11612	12128	11459	288.773158	335.3628171	526.3712204	476.3179869	451.3390617	435.9252461	0.865887765	5.80E-06	0.09378192
12	NEDD1	+	5931	5434	10146	8365	8651	8870	39.52288991	36.1006863	57.4044514	59.3885501	56.04432424	59.0596847	0.673936738	5.92E-06	0.09562272
12	PGAM5	+	8406	9496	5844	5580	5269	5226	57.80583635	65.51730213	33.73488041	41.26892734	34.39094915	34.86872524	-0.707938793	5.92E-06	0.09565509
1	GJC2	+	230	189	49	33	74	60	2.647834321	2.2982721	0.473538698	0.439109995	0.831350344	0.746427893	-1.95591832	5.94E-06	0.09595821
2	DGKG	+	6888	6645	12152	9385	10539	10211	21.99912255	20.42612165	31.82007858	31.31354853	32.05613939	31.56640406	0.643732522	5.95E-06	0.09623756
17	SLC25A35	-	2039	1609	3949	3027	3251	3161	12.59601557	10.30715268	20.47610479	20.11008003	19.59404081	19.47610843	0.857582822	6.02E-06	0.09733704
11	TNNI2	+	25	19	0	0	0	0	0.796979654	0.821905515	0	0	0	0	-144269508.5	6.12E-06	0.09881319
11	CDON	-	610	696	345	209	214	214	1.630928338	1.915972478	0.774302752	0.613072428	0.588040123	0.599138357	-1.411359967	6.13E-06	0.0990655
4	ING2	-	738	805	1911	1756	1374	1538	14.64778319	16.56828385	29.04425648	34.19859475	24.27962809	27.77734799	1.092139251	6.17E-06	0.09964026
X	CD99L2	-	2639	2266	6975	3466	4233	4432	12.36295892	10.78880978	26.37648618	17.12048645	18.97646095	20.3031246	0.961700728	6.20E-06	0.10020471
18	LMAN1	-	36877	38242	27745	23380	25294	21823	140.7186473	151.3224497	98.28597033	95.94585251	95.58512826	84.3020173	-0.612837004	6.22E-06	0.10046413
11	SF3B2	+	99986	97701	175570	129031	146601	136447	272.3639594	290.8094431	392.3353892	391.9509479	380.7750349	374.1223372	0.593798144	6.23E-06	0.10062928
X	ARMCX2	-	8056	6244	12154	11507	10953	10956	58.86330471	47.64731898	73.98201697	92.3023855	78.64177111	102.4310353	0.764050339	6.25E-06	0.10090006
7	PAXIP1-AS2	+	2136	1942	3963	3405	3392	3721	18.54660709	17.4850631	28.88431131	31.79464848	28.75945959	32.22349743	0.828227552	6.37E-06	0.10296695
17	CEP112	-	711	494	1628	1087	1356	1438	4.652686935	2.949335514	7.834926518	6.637231471	7.585157025	8.143149343	1.192753716	6.39E-06	0.10315662
19	EPOR	-	819	868	1925	1424	1743	1973	7.532938143	8.871097989	15.31801673	14.5117286	16.12105843	18.6540851	1.066226857	6.40E-06	0.10337794
X	MAP7D2	-	271	205	49	56	92	41	1.835729317	1.560331832	0.380553002	0.562229827	0.681729843	0.534651422	-2	6.49E-06	0.10480047
8	ZFPM2	+	163	153	967	329	937	394	0.944359199	0.872225776	4.271587678	1.823627144	4.691864763	2.097921904	2.055419737	6.51E-06	0.10503497
7	UBE2H	-	20235	16040	40412	22995	39198	28225	85.68583774	77.06830101	139.9760373	103.8500797	159.3109181	115.641454	0.850643877	6.51E-06	0.10511471
2	SUCLG1	-	8182	8548	15430	12408	11913	12789	53.66928055	67.12564737	85.95746602	85.5418153	76.40657458	83.34382202	0.650061754	6.55E-06	0.10563495
10	ABI1	-	11807	10439	22022	13604	18526	17889	83.05148906	75.03978189	127.6333197	101.509488	125.4031827	123.1880277	0.695272256	6.56E-06	0.10597244
20	SDCBP2	-	3076	1768	1075	680	1376	896	42.49807655	25.32080823	12.46746254	11.24698439	18.69872404	12.44664347	-1.269403393	6.57E-06	0.10604838
18	SETBP1	+	2013	1508	4509	2813	3263	3243	4.791663947	3.722293446	8.907659231	8.615501959	7.492634419	7.612286397	0.95251672	6.65E-06	0.10738942
4	AGA	-	682	765	1759	1472	1361	1531	8.355187006	8.761447661	18.0859105	19.49086752	16.27409541	18.7139138	1.081137561	6.66E-06	0.10757875
1	NECAP2	+	5934	4535	9358	7588	9019	8911	28.69449129	22.25287762	37.98574688	38.61457366	41.83971049	41.28418726	0.758119941	6.67E-06	0.10768252
22	CENPM	-	6862	6935	4538	3968	4453	3776	99.65777847	109.4267664	61.94309518	65.42428061	63.67222381	57.85198192	-0.71892212	6.68E-06	0.10780436
3	ACAP2	-	7687	7880	14791	12104	10462	12344	23.11035001	25.04352425	37.52891788	36.66735268	28.62582638	33.88999857	0.67663866	6.70E-06	0.10815803
7	AASS	-	343	327	1087	838	682	778	2.336512299	2.333853763	6.146852653	5.613663859	4.479121201	5.188254808	1.336922833	6.76E-06	0.10914235
6	SERPINB6	-	4777	3853	9500	5808	8703	6630	30.89441827	27.30115745	51.55789005	40.38279951	54.85896933	42.75220543	0.828030917	6.77E-06	0.10927545
18	MRPL28	-	10815	10515	18772	15970	16181	15162	149.537838	170.0208631	232.5242387	201.0375987	250.8724543	208.2615949	0.631431028	6.79E-06	0.10953393
2	AGAP1	+	17382	17024	12454	10837	11593	9062	32.80997451	33.36816339	20.07880789	22.41174211	21.72253949	17.38067725	-0.64692832	6.90E-06	0.11134401
6	RWDD2A	+	536	456	1192	1195	993	1241	2.953622885	2.605982529	5.513523755	5.338808996	6.828613917	1.219703064	0.938126398	6.93E-06	0.11182836
18	STBSIA5	-	214	124	41	4	22	2	1.952628314	1.184884028	0.394809206	0.539225779	0.342585504	0.106204331	-3.292394698	6.98E-06	0.11254318
4	NDUFC1	-	3719	3779	7556	5568	5774	5920	51.08113915	53.82440978	84.38127255	90.0023894	77.37863707	84.65682247	0.726899127	6.99E-06	0.11277992
12	CNTN1	+	2188	3149	1248	747	1573	783	9.564727262	12.21854734	4.872139132	3.157996125	5.803298078	2.99685363	-1.294681994	7.02E-06	0.11326655
6	PLAZG7	-	66	83	13	6	0	8	0.934353779	1.170340058	0.702712839	0.390212666	0	0.498802384	-3.464281018	7.06E-06	0.11384719
16	MAZ	+	64586	68405	48229	42227	40673	44023	413.0135674	474.094196	265.1076291	303.4908365	253.7716832	296.9598125	-0.596968973	7.11E-06	0.11473584
22	PPM1F	-	4454	4496	8185	7389	6556	7427	17.83405413	17.79579705	26.14085232	28.67024255	24.18009982	28.01616681	0.723542058	7.12E-06	0.1148375
14	CHURC1	+	4490	3867	10038	8422	5317	6564	22.976895	22.16308649	41.746656	43.27905531	28.29110725	44.35927629	0.952307247	7.18E-06	0.11545274
17	PIK3R5	-	16	26	0	0	0	0	1.337068779	0.353489327	0	0	0	0	-144269508.5	7.17E-06	0.1155643
14	C14orf166	+	14855	14981	32282	23722	19050	24667	232.616497	209.5838496	464.6376202	311.7666671	271.9277556	523.7324733	0.740842318	7.19E-06	0.11595537
19	AP1M1	+	10239	9480	20984	13495	14255	14339	92.63941821	79.20285491	135.3717082	109.653498	103.1434664	119.2813878	0.677438164	7.21E-06	0.11622491
12	UBE3B	+	6744	7174	13020	9752	10114	10829	14.07114718	18.35262077	23.50277884	25.34053379	24.35831049	23.22585146	0.851176486	7.22E-06	0.11636425
6	TMEM14C	+	4418	4410	7726	6547	7286	6902	86.36948613	89.39119911	126.7741756	146.3822867	145.172239	140.9658252	0.692877349	7.23E-06	0.11658069
20	C20orf141	+	10	19	117	78	89	66	0.438406465	0.877715575	4.09046877	3.493661218	2.973699851	2.939090197	2.593230117	7.35E-06	0.11842792
8	ZNF704	-	3896	2500	1198	851	1963	1212	6.786788753	4.614146795	1.789827577	1.610622817	3.371059572	2.151538107	-1.282015042	7.35E-06	0.11855128
19	LDLR	+	15523	9884	23926	17998	24821	22430	56.17111709	37.09349045	70.61815051	68.05647563	84.60954127	81.70785875	0.811413275	7.39E-06	0.11915467
8	CHRAC1	+	6775	6640	4670	3956	3803	4049	54.22989742	53.88187871	31.27181514	42.13985379	29.5996717	32.32491439	-0.703305907	7.46E-06	0.12017434
22	NHP2L1	-	27026	27796	19947	18043	16610	17078	251.1249835	273.1333948	176.7565333	181.5421785	151.6225577	210.5498877	-0.613487714	7.49E-06	0.12071353
19	CGB8	-	3	7	262	27	47	57	0.184884063	0.340758946	6.179661533	1.852038007	1.34560767	2.899107931	4.296457407	7.50E-06	0.12084677
16	DYNC1LI2	-	12121	11247	9612	6629	6893	6941	38.76591003	36.55727789	25.16907466	22.91363804	21.61621838	21.72689048	-0.850423755	7.52E-06	0.12112987
8	PLXND1	-	1164	975	2859	1864	2383	1730	3.790764521	3.243557721	7.937959613	6.630398091	7.368452533	5.707105402	1.046456936	7.53E-06	0.12133212
6	CUTA	-	10777	9486	18802	13985	16165	14126	185.3398743	158.1596511	217.2451669	227.6466703	249.5507174	217.5889811	0.683689132	7.54E-06	0.12154362
1	EXO1	+	13272	13267	21974	20190	19940	21824	87.18774831	88.92316011	115.6680353	142.6500862	124.2585092	142.9832877	0.654145884	7.54E-06	0.12158299
1	RPS6KC1	+	1847	1778	3321	2063	3685	3525	8.191943326	8.264947666	12.23003013	13.86879135	15.36851568	15.42385143	0.89840186	7.69E-06	0.12388829
19	C19orf66	+	4652	3386	8024	5607	7811	6987	28.60759064	21.64396085	41.40166213	48.17972947	46.95812446	41.7707989	0.807149753	7.74E-06	0.12470974
3	CTDSPL	+	9519	7989	6437	4386	5618	5396	48.73135571	42.40237604	28.89982126	22.19383742	25.55830518	28.7844973	-0.681239619	7.77E-06	0.12516969
6	SRSF12	-	690	504	127	194	103	259	3.134187923	2.660276992	0.670445816	1.365252504	0.657632718	1.678039498	-1.82488234	7.82E-06	0.12601079
19	PPFIA3	+	651	579	1580	1059	1383	1405	3.245214992	2.690893641	6.046945541	3.358703564	5.976537198	6.562412596	1.136170041	7.83E-06	0.12610742
6	TRMT2	-	4575	4754	8460	7139	6958	7691	14.83378682	15.94001824	23.02083807	24.89382251	22.00908119	24.80318529	0.897049456	7.84E-06	0.12630002
14	MED6	-	4791	5079	10459	8353	6632	8397	37.84458303	44.48768062	60.6554072	59.91380751	49.3470087	65.04405444	0.787943639	7.88E-06	0.12697462
5	AC026703.1	+	14	22	203	49	125	116	0.125742599	0.204909857	1.530513265	0.473299567	1.095406799	1.039140113	2.775518835	7.88E-06	0.12691675
2	GTF3C2	-	19145	20378	15313	11749	12624	12538	90.46018033	99.84932257	60.79201642	59.6857896	63.34466338	65.18178252	-0.580820274	7.88E-06	0.12694488
14	EIF2S1	+	17398	17553	37181	29556	23705	48223	79.49584171	84.68710995	145.2134996	143.5279499	107.6094086	253.8760579	1.182579279	7.93E-06	0.12772334
19	FBL	-	49826	48629	34393	31518	32852	31649	592.2099441	599.2313868	365.4422088	402.7682571	406.0984442	375.1061941	-0.594274439	7.99E-06	0.12866876
16	CBFB	+	754	763	300	232	377	270	5.553306948	5.827356246	2.712889656	2.544498266	17.42802267	3.435636639	-1.363657367	8.03E-06	0.12925587
14	PPP4R4	+	170	134	438	685	381	884	1.125003571	0.853698171	2.288598094	4.416658008	2.220974035	5.254332423	1.973859608	8.12E-06	0.13068611
4	GUK8	-	295	218	1013	567	584	681	2.442269006	1.934818031	7.158436593	4.899808494	4.811479438	5.813240835	1.471397822	8.16E-06	0.13130302
4	LRBA	-	12061	10642	18511	17193	17395	18195	29.82007278	26.0046433	38.41863466	42.01811179	32.36510074	44.86825365	0.650897717	8.24E-06	0.13265301
17	IFT20	-	1183	1138	2796	1870	2179	2119	10.87100938	9.492962446	18.38866108	16.89334374	17.19877899	17.19946168	0.949396128	8.26E-06	0.13302846
2	AC092675.3	-	42	32	204	100	184	171	1.195733091	0.94471679	4.558661468	2.862899755	4.779135642	4.540235141	2.154681289	8.31E-06	0.13377084
7	GPR65	-	39	37	353	125	135	156	0.228307298	0.342225289	1.16516577	0.523253837	0.73019281	0.621551645	2.339912275	8.32E-06	0.13388043
10	ANKABL2	+	202	56	1015	498	486	420	6.594276157	2.357707114	18.1238034	14.15509964	9.898510285	11.78312755	2.228967799	8.43E-06	0.13570379
7	NUB1	+	14711	12791	25929	17796	20321	21472	69.59866403	61.42436513	112.9722014	87.02186851	100.92145	109.0518046	0.656991575	8.45E-06	0.13597433
16	CDH1	+	14618	10249	1979	4914	3854	6721	74.79357038	52.00588681	8.506202646	23.34795284	18.2037953	34.2668757	-1.534519487	8.45E-06	0.1360411
1	TATDN3	+	560	496	1339	1118	1012	1297	6.129885055	5.615772089	10.27039929	12.83995148	9.221225551	13.91239135	1.174189117	8.56E-06	0.13776883
12	PTMS	-	969	1018	587	224	358	338	20.42584035	21.27822306	10.45505795	5.045854861	7.753442461	7.628305848	-1.389912466	8.60E-06	0.13841093
11	ENDOD1	+	7339	6477	3850	3803	4260	4335	40.43283364	37.00380698	17.80511098	22.53249314	22.89907364	23.82034888	-0.766077843	8.64E-06	0.13850433
16	FHOD3	+	5662	5485	3066	3210	3087	3597	19.52120962	19.60366908	8.870406018	11.80254385	10.38107022	12.05568706	-0.795329656	8.64E-06	0.13850433
7	MKRN1	-	28757	27977	49474	36260	46815	42992	140.5312836	141.7205818	193.6885661	178.315004	206.4162348	222.2034162	0.629522542	8.64E-06	0.13890452
2	NCL	-	266537	301809	207439	191436	165648	186238	993.2971483	1167.6758	649.9313534	922.4713088	603.0045867	692.232057	-0.598415779	8.64E-06	0.13902052
22	ZCRB7B	-	24742	25813	40465	39897	37620	42205	60.95710405	65.94894525	83.68563318	105.7008351	90.91217995	103.709891	0.68563152	8.65E-06	0.13919598
4	HS3ST1	-	1206	1243	645	392	645	422	3.977230295	4.14438836	1.785569922	1.355483754	1.999002432	1.388048556	-1.219958869	8.67E-06	0.13937269
4	ULBP3	-	341	313	82	111	57	116	8.912239752	8.462858834	1.883421319	3.119922466	1.498623513	3.023813588	-1.837449887	8.68E-06	0.13940409
X	SH3KBP1	-	9351	8720	18311	11838	16484	12462	49.6530816	44.41579608	79.35068452	62.20298408	81.1266334	63.29189603	0.793539727	8.79E-06	0.14141483
21	ATP5J	-	6572	6459	12290	9739	9178	9885	89.98043971	91.57909875	134.2054898	185.6253857	122.6054998	124.738754	0.958257553	8.82E-06	0.14175912
14	GMPR2	+	15534	15870	29980	21180	24575	23587	110.7457579	117.3241519	162.4043782	185.9157414	170.9418299	167.7174425	0.651917018	8.82E-06	0.14176132
15	CIB2	-	1281	846	439	322	415	539	16.06515899	11.0020334	5.687841534	4.415793134	6.317618063	8.08557026	-1.310611457	8.88E-06	0.1427072
1	CNST	-	2610	2757	4585	5378	4757	5115	12.36166315	12.46286833	18.2289814	27.3536871	20.2380198	22.24403626	0.885863604	8.88E-06	0.14274301
11	MAP3K11	-	29881	28126	48854	38722	51279	43484	75.28455352	73.48275355	104.3928198	106.9433001	126.0553615	110.4013973	0.852324255	9.03E-06	0.14521633
11	TOLLIP	-	5156	4588	8632	7255	7764	7999	30.74082771	28.12946569	35.78258395	43.02205337	38.9859284	37.8997726	0.680806415	9.10E-06	0.14621506
17	SARM1	+	3840	3414	6701	5364	6282	5701	12.45378005	11.69900839	18.58615457	19.3127142	20.06477519	18.44093077	0.729068264	9.13E-06	0.14671695
17	TRAPPC1	-	6858	5900	12070	8503	10410	9957	151.2282165	161.7986693	263.4734939	225.5295906	264.1221046	209.0935174	0.866163459	9.15E-06	0.14710792
2	TGFA	-	11921	10229	24914	16691	24630	14510	62.42663565	55.18840542	110.8802816	95.17683783	127.420328	75.78554525	0.880668227	9.20E-06	0.14784454

Sup. Table 2. Wnt inhibitors in PEO1 and OVSAHO cells

Inhibitor Name	Target	PEO1 IC50 [nM]	OVSAHO IC50 [nM]
Pyrvinium Pamoate	β-catenin, AKT	370.7	733.5
PRI724	β-catenin/CBP	852	3798
WntC59	Porcupine	>50000	45140

Sup. Table 3. Primers.

PRIMERS	SEQUENCE
FOSL1 forward	CTTGTGAACAGATCAGCCCGGA
FOSL1 reverse	GTCGGTCAGTTCCTTCCTCC
CCND1 forward	GATCAAGTGTGACCCGGACTG
CCND1 reverse	CCTTGGGGTCCATGTTCTGC
WNT3A forward	ATGGTGTCTCGGGAGTT
WNT3A reverse	TGGCACTTGCACTTGAG
WNT5A forward	CATGAACCTGCACAACAACGA
WNT5A reverse	GGCACTTGCAGGCCACAT
WNT7B forward	TCATGCACAGAAACTTTCGCA
WNT7B reverse	GATGACAGTGCTCCGAGCTTC
SFRP1 forward	GAGACTTCTGTTCCTGGGGGCCGAG
SFRP1 reverse	CCCGATGCCCATGCCGGCTCT
GAPDH forward	GTCTCCTCTGACTTCAACAGCG
GAPDH reverse	ACCACCCTGTTGCTGTAGCCAA
18S forward	AACTTTCGATGGTAGTCGCCG
18S reverse	CCTTGGATGTGGTAGCCGTTT
B2M forward	GGCATTCCTGAAGCTGACA
B2M reverse	CTTCAATGTCGGATGGATGAAAC