

## Genes Overlapping in PacR and GemR

AKAP12  
AMIGO2  
APOBEC3C  
APOBEC3D  
APOBEC3F  
APOL1  
ARHGEF4  
ASB2  
AUTS2  
BARX2  
BIK  
BST2  
C10orf55  
C11orf45  
CDH3  
CHST15  
CLMP  
CYP1A1  
DAPP1  
DNAH2  
DST  
EFNB2  
ELFN2  
FAM92A1  
FEZ1  
FGFBP1  
FGFR3  
FLNB  
FSTL4  
FZD10  
GABRE  
GJB4  
GLI3  
GNG4  
GSN  
IGFBP3  
IGFBP6  
IL1RL1  
IL7  
ITGB8  
KCNN4  
KRT23  
KRT6A  
L1CAM  
LCN2  
LGALS1

LHX1  
LIF  
LOC100507127  
LOXL2  
MAP1B  
MDK  
MFSD2A  
MGAT5B  
MUC4  
MYO5B  
NGEF  
NPR3  
NRIP3  
NT5E  
NTN4  
OASL  
OSBP2  
PCSK1  
PCSK1N  
PCSK5  
PDP1  
PITPNC1  
PLAU  
PTGES  
PTGR1  
PTK2B  
RASD1  
RPS6KA6  
RTKN2  
SAMD12  
SEMA3B  
SLCO3A1  
SRCIN1  
SRPX2  
STMN3  
SULF2  
TFAP2C  
TGFB111  
THRB  
THSD4  
TP53TG1  
UNC5B  
VEGFC  
WDR31  
WFDC2  
ZC3H12C  
ZNF365

ZNF462

Differential gene expression PacR vs Par, P-adj =< 0.05 , Log2FC > 0.7 or -0.7

GeneID	Base	mean log2(FC)	StdErr	Wald-Stats	P-value	P-adj
GJA5	109.4044	-5.28426	0.312574	-16.9056	4.09E-64	3.68E-62
COL3A1	925.2336	-4.90243	0.120545	-40.6688	0	0
ZNF300	51.15736	-4.62429	0.35367	-13.0751	4.57E-39	2.49E-37
FABP4	147.7701	-4.48817	0.24235	-18.5194	1.44E-76	1.66E-74
ALDH1A2	37.02389	-4.07739	0.360892	-11.2981	1.34E-29	5.43E-28
CLDN2	31.27528	-3.97663	0.370184	-10.7423	6.44E-27	2.37E-25
ARHGAP24	58.16307	-3.7655	0.300478	-12.5317	5.01E-36	2.51E-34
MMP1	229.9242	-3.40748	0.167136	-20.3875	2.16E-92	3.17E-90
UNC13A	73.98233	-3.37775	0.258855	-13.0488	6.45E-39	3.48E-37
C4BPB	39.9447	-3.34504	0.330067	-10.1344	3.89E-24	1.27E-22
SCUBE1	97.49313	-3.27444	0.228631	-14.3219	1.60E-46	1.02E-44
TNFRSF1B	16.33959	-3.23027	0.395669	-8.16407	3.24E-16	6.57E-15
PVRL3	53.25375	-3.16063	0.286966	-11.014	3.27E-28	1.26E-26
C2orf89	23.33405	-3.09371	0.364706	-8.48274	2.20E-17	4.80E-16
AKR1C3	41.65929	-3.06698	0.305567	-10.037	1.05E-23	3.36E-22
MAGEA1	15.87687	-3.02771	0.394957	-7.66594	1.78E-14	3.17E-13
STOML3	35.77001	-3.0132	0.31904	-9.44459	3.57E-21	1.00E-19
ODZ3	57.53461	-3.00249	0.27935	-10.7481	6.05E-27	2.23E-25
SHH	26.15605	-2.99767	0.35179	-8.5212	1.58E-17	3.49E-16
LOC100288	35.81182	-2.96895	0.322492	-9.20627	3.38E-20	9.02E-19
LOXL1	142.8208	-2.9556	0.184228	-16.0431	6.39E-58	5.03E-56
TFF2	151.0834	-2.93889	0.186002	-15.8003	3.10E-56	2.37E-54
PIK3CG	16.75264	-2.92105	0.385614	-7.57506	3.59E-14	6.24E-13
AKR1C2	26.57449	-2.89378	0.344887	-8.39053	4.84E-17	1.03E-15
THSD7A	404.9532	-2.8812	0.219448	-13.1293	2.24E-39	1.23E-37
CDYL2	206.8287	-2.85736	0.266566	-10.7191	8.28E-27	3.03E-25
UGT1A6	179.4942	-2.73549	0.16207	-16.8784	6.48E-64	5.76E-62
ALDH3A1	3958.616	-2.72041	0.057146	-47.6044	0	0
AKR1C1	19.90355	-2.70106	0.365796	-7.38407	1.54E-13	2.52E-12
CREB3L1	22.06559	-2.69497	0.356834	-7.55246	4.27E-14	7.35E-13
OGDHL	135.5873	-2.67056	0.182447	-14.6374	1.62E-48	1.06E-46
DNAJC15	10.72664	-2.65614	0.406384	-6.53603	6.32E-11	8.11E-10
HS3ST1	362.0886	-2.63642	0.119483	-22.0653	6.81E-108	1.35E-105
DCHS2	12.90775	-2.62952	0.39882	-6.59326	4.30E-11	5.61E-10
SCNN1G	18.55927	-2.60208	0.369906	-7.03442	2.00E-12	2.98E-11
PPP1R1B	28.53713	-2.59068	0.336552	-7.6977	1.39E-14	2.50E-13
FOXA2	36.32728	-2.57415	0.303044	-8.4943	1.99E-17	4.37E-16
KLF12	56.46085	-2.56989	0.263749	-9.7437	1.96E-22	5.90E-21
ADAM28	29.15905	-2.53657	0.324317	-7.82128	5.23E-15	9.65E-14
FOS	278.8637	-2.53097	0.132305	-19.1298	1.43E-81	1.77E-79
METTL7A	60.84936	-2.52053	0.251252	-10.0319	1.10E-23	3.53E-22
TLR4	10.51355	-2.50075	0.405056	-6.17382	6.67E-10	7.68E-09
FAM190A	17.2777	-2.48174	0.372151	-6.66862	2.58E-11	3.43E-10
SPINK4	359.6116	-2.44204	0.116182	-21.0191	4.39E-98	7.49E-96
TSPAN8	267.8224	-2.43695	0.132839	-18.3452	3.61E-75	3.95E-73

LGR4	1188.35	-2.41357	0.081321	-29.6795	1.41E-193	7.66E-191
TSPAN1	874.0216	-2.41335	0.082756	-29.1622	5.86E-187	2.96E-184
LOC146330	23.13286	-2.40857	0.34343	-7.01327	2.33E-12	3.43E-11
SCNN1B	18.99379	-2.33609	0.364631	-6.40674	1.49E-10	1.82E-09
TSHZ2	34.90187	-2.30633	0.305513	-7.54906	4.38E-14	7.53E-13
C2orf88	63.11472	-2.30515	0.239058	-9.64265	5.28E-22	1.55E-20
HCLS1	28.27564	-2.2866	0.320019	-7.14522	8.99E-13	1.38E-11
AQP2	36.49844	-2.26027	0.292865	-7.71781	1.18E-14	2.14E-13
RILP	132.6876	-2.23339	0.17763	-12.5733	2.96E-36	1.51E-34
PRKCDBP	27.02706	-2.22999	0.333303	-6.69056	2.22E-11	2.98E-10
DKK4	7.003783	-2.14602	0.409815	-5.23655	1.64E-07	1.41E-06
CP	632.178	-2.11488	0.093962	-22.5077	3.49E-112	7.63E-110
CEACAM6	107.4012	-2.09782	0.199311	-10.5254	6.60E-26	2.32E-24
TMEM100	95.68905	-2.04407	0.203933	-10.0232	1.20E-23	3.84E-22
MUC5B	1357.585	-2.03849	0.226377	-9.00485	2.16E-19	5.45E-18
EEPD1	124.3581	-2.00221	0.175486	-11.4095	3.75E-30	1.55E-28
RPL22L1	611.1684	-1.96458	0.091973	-21.3603	3.13E-101	5.66E-99
MGP	29.24416	-1.94845	0.309985	-6.28562	3.27E-10	3.88E-09
PLSCR4	36.8314	-1.94612	0.287889	-6.75995	1.38E-11	1.88E-10
MAN1A1	90.83787	-1.9433	0.201514	-9.64347	5.24E-22	1.54E-20
MYOM2	20.59129	-1.93941	0.34219	-5.66764	1.45E-08	1.44E-07
IKZF2	116.7576	-1.93488	0.188858	-10.2451	1.24E-24	4.14E-23
C15orf59	43.77467	-1.927	0.265681	-7.25307	4.07E-13	6.47E-12
BCHE	17.12058	-1.90391	0.364901	-5.21761	1.81E-07	1.55E-06
SCARA5	11.3052	-1.90138	0.391761	-4.85341	1.21E-06	9.07E-06
TPPA	20.45941	-1.87349	0.341408	-5.48754	4.08E-08	3.83E-07
LOC100501	15.36869	-1.86733	0.3672	-5.08533	3.67E-07	2.99E-06
SEMA6A	24.25248	-1.85908	0.324431	-5.73029	1.00E-08	1.02E-07
RGS16	67.11805	-1.83124	0.221837	-8.25487	1.52E-16	3.13E-15
LGR6	90.17149	-1.82217	0.204973	-8.88979	6.12E-19	1.51E-17
FN1	55.57144	-1.78157	0.263949	-6.74967	1.48E-11	2.02E-10
ITPR2	447.965	-1.77435	0.117361	-15.1188	1.22E-51	8.66E-50
HEY1	85.81081	-1.77121	0.200551	-8.83172	1.03E-18	2.49E-17
SH3RF3	126.4816	-1.76624	0.174713	-10.1094	5.02E-24	1.64E-22
LY6K	24.84457	-1.76442	0.31933	-5.52539	3.29E-08	3.13E-07
ELN	5.020532	-1.76287	0.406072	-4.34128	1.42E-05	8.87E-05
GNAZ	14.83263	-1.759	0.371249	-4.73806	2.16E-06	1.55E-05
MXRA5	5.238513	-1.74281	0.40541	-4.29887	1.72E-05	0.000106
MAML3	48.13505	-1.7382	0.25274	-6.87743	6.09E-12	8.63E-11
MSX2	219.6744	-1.72871	0.143184	-12.0734	1.46E-33	6.75E-32
SEMA3G	13.98316	-1.72501	0.372015	-4.63695	3.54E-06	2.46E-05
KCNK3	18.29881	-1.68649	0.34933	-4.82777	1.38E-06	1.02E-05
MAP2K6	101.097	-1.67311	0.193079	-8.66542	4.50E-18	1.04E-16
ANXA10	23.08056	-1.6642	0.328708	-5.06285	4.13E-07	3.33E-06
ITGB6	69.84326	-1.66134	0.220583	-7.53159	5.01E-14	8.54E-13
SLC6A15	166.3977	-1.65815	0.15106	-10.9768	4.94E-28	1.90E-26
SLC8A1	9.637909	-1.65284	0.397009	-4.16324	3.14E-05	0.000185

ST6GALNA	35.92507	-1.65275	0.279698	-5.90904	3.44E-09	3.70E-08
ARPM1	20.5246	-1.65145	0.34045	-4.8508	1.23E-06	9.17E-06
LOC10028	37.84702	-1.64732	0.277333	-5.93988	2.85E-09	3.10E-08
HOTTIP	11.13695	-1.64619	0.393032	-4.18844	2.81E-05	0.000167
C2CD4A	13.5955	-1.63963	0.377019	-4.34894	1.37E-05	8.59E-05
MMP28	273.7538	-1.63654	0.123023	-13.3027	2.23E-40	1.26E-38
FAT2	1248.428	-1.60761	0.204279	-7.86966	3.56E-15	6.67E-14
CXCR4	81.11438	-1.60294	0.201544	-7.95327	1.82E-15	3.45E-14
CHST2	77.86968	-1.60279	0.211028	-7.59514	3.07E-14	5.39E-13
PCDHB15	15.28438	-1.60265	0.362173	-4.4251	9.64E-06	6.26E-05
LFNG	228.9383	-1.5946	0.132575	-12.028	2.53E-33	1.16E-31
SEMA4B	2237.93	-1.59064	0.066365	-23.968	6.00E-127	1.42E-124
PLCE1	68.93116	-1.58814	0.221667	-7.1645	7.81E-13	1.20E-11
PCP4L1	9.098038	-1.58725	0.398778	-3.98028	6.88E-05	0.000379
HOXD1	13.93569	-1.58568	0.369841	-4.28748	1.81E-05	0.000111
TPRXL	11.37504	-1.58393	0.385536	-4.10838	3.98E-05	0.00023
SNN	123.7288	-1.58387	0.174588	-9.07202	1.17E-19	3.01E-18
MB	71.46753	-1.5795	0.21506	-7.34445	2.07E-13	3.36E-12
DTNA	4.98545	-1.57654	0.406099	-3.88217	0.000104	0.000549
HOXD-AS1	43.45296	-1.55786	0.26451	-5.88959	3.87E-09	4.14E-08
TFF3	5.277571	-1.55324	0.409039	-3.7973	0.000146	0.000754
CFH	247.6803	-1.53647	0.124124	-12.3785	3.42E-35	1.65E-33
SCD	4264.106	-1.53355	0.057143	-26.8372	1.19E-158	4.06E-156
PDZRN3	10.22747	-1.53276	0.394391	-3.88639	0.000102	0.00054
SMAD6	161.0171	-1.53111	0.154124	-9.93426	2.95E-23	9.29E-22
ASPH	4395.466	-1.52734	0.052794	-28.9301	4.99E-184	2.44E-181
ACSL5	137.5572	-1.52253	0.163452	-9.31483	1.22E-20	3.32E-19
DUSP9	44.40255	-1.52159	0.259969	-5.85295	4.83E-09	5.07E-08
MUM1L1	6.202255	-1.50042	0.409617	-3.66298	0.000249	0.001218
SLITRK6	184.75	-1.4856	0.142339	-10.437	1.68E-25	5.80E-24
GM2A	331.1007	-1.48387	0.117825	-12.5939	2.28E-36	1.17E-34
TCF4	101.1715	-1.46573	0.185403	-7.90562	2.67E-15	5.03E-14
DAAM2	1143.027	-1.4638	0.087286	-16.7702	4.03E-63	3.52E-61
LOC10050	20.54126	-1.451	0.332351	-4.36587	1.27E-05	8.01E-05
VANGL2	53.38625	-1.44973	0.240719	-6.02251	1.72E-09	1.92E-08
LGR5	3.673287	-1.44953	0.396852	-3.65258	0.00026	0.001264
CSRNP3	9.789303	-1.44933	0.402145	-3.604	0.000313	0.001492
GRK5	84.32469	-1.44864	0.196296	-7.37988	1.58E-13	2.60E-12
ELMO1	153.6149	-1.43071	0.153581	-9.31565	1.21E-20	3.30E-19
GAD1	126.2629	-1.42814	0.167232	-8.53989	1.34E-17	2.98E-16
ANXA6	625.0819	-1.41592	0.096025	-14.7454	3.29E-49	2.20E-47
LPAR6	209.4915	-1.4147	0.133516	-10.5957	3.12E-26	1.12E-24
SSTR5	32.59703	-1.41287	0.288166	-4.90298	9.44E-07	7.19E-06
ZNF423	10.74752	-1.41222	0.393454	-3.5893	0.000332	0.001566
NCAM2	12.77725	-1.41102	0.378493	-3.72799	0.000193	0.000966
SESN3	42.06797	-1.41034	0.264488	-5.33234	9.70E-08	8.66E-07
KRT5	1550.157	-1.41019	0.06784	-20.7869	5.69E-96	9.17E-94

PTPRB	68.72053	-1.40755	0.219794	-6.40395	1.51E-10	1.85E-09
INSIG1	130.365	-1.40468	0.163817	-8.57465	9.94E-18	2.23E-16
EGLN3	239.4662	-1.40452	0.125937	-11.1526	6.96E-29	2.73E-27
ATP7B	87.0581	-1.40401	0.192579	-7.29057	3.09E-13	4.94E-12
SULT1C2	5.441255	-1.39716	0.40923	-3.41412	0.00064	0.002814
DEF6	18.74649	-1.39691	0.344904	-4.05014	5.12E-05	0.000289
FAM102B	281.635	-1.39125	0.118849	-11.7061	1.19E-31	5.22E-30
SP5	6.819466	-1.38577	0.408133	-3.39538	0.000685	0.002999
CDH6	4.084904	-1.38455	0.402035	-3.44386	0.000573	0.002557
KIAA1199	1536.012	-1.38423	0.079996	-17.3039	4.40E-67	4.22E-65
CEL	36.93608	-1.38374	0.272999	-5.06867	4.01E-07	3.24E-06
CMBL	93.16969	-1.37818	0.188105	-7.32666	2.36E-13	3.81E-12
TSPAN11	8.626381	-1.37615	0.401507	-3.42746	0.000609	0.002697
MEF2C	3.417689	-1.37442	0.393371	-3.49397	0.000476	0.002166
NEDD9	1359.122	-1.37124	0.068532	-20.0088	4.61E-89	6.50E-87
DQX1	11.58376	-1.37056	0.381906	-3.58875	0.000332	0.001569
EMP2	442.8053	-1.36524	0.098882	-13.8067	2.32E-43	1.39E-41
UTS2	4.937316	-1.36311	0.408808	-3.33434	0.000855	0.003666
KCTD12	282.6449	-1.36094	0.121638	-11.1884	4.65E-29	1.84E-27
CEACAM5	62.51905	-1.34192	0.232223	-5.77862	7.53E-09	7.72E-08
FBLN2	3.336475	-1.33767	0.3915	-3.41679	0.000634	0.002789
PPFIBP2	21.70723	-1.3372	0.32725	-4.08617	4.39E-05	0.000251
SHISA2	79.88673	-1.33618	0.210622	-6.34395	2.24E-10	2.71E-09
GLUD2	20.84014	-1.33375	0.331136	-4.0278	5.63E-05	0.000315
GJA1	641.9887	-1.32212	0.085508	-15.4619	6.27E-54	4.69E-52
KBTBD11	60.43904	-1.31826	0.224192	-5.88004	4.10E-09	4.37E-08
SESTD1	165.6756	-1.31777	0.148634	-8.86588	7.59E-19	1.85E-17
C19orf57	30.56681	-1.31547	0.289567	-4.54289	5.55E-06	3.74E-05
CLGN	79.16553	-1.31518	0.209964	-6.26383	3.76E-10	4.44E-09
TSHZ1	364.057	-1.31326	0.110178	-11.9194	9.38E-33	4.24E-31
STARD4	80.49373	-1.30475	0.203137	-6.42303	1.34E-10	1.65E-09
HP	5.262406	-1.30375	0.409578	-3.18315	0.001457	0.005923
NREP	28.47693	-1.29696	0.300505	-4.31592	1.59E-05	9.89E-05
SH3GL2	43.29003	-1.29682	0.25842	-5.01826	5.21E-07	4.15E-06
MMP10	15.96315	-1.29437	0.357408	-3.62155	0.000293	0.001403
ICAM1	10.69987	-1.29046	0.395111	-3.26607	0.001091	0.004577
MYO3A	8.520662	-1.28877	0.402698	-3.20035	0.001373	0.005618
PTAFR	4.087439	-1.28874	0.404807	-3.18358	0.001455	0.005919
MGC4580C	4.600505	-1.28749	0.407951	-3.15599	0.0016	0.006437
CCNG1	986.3162	-1.28374	0.07299	-17.5879	3.05E-69	3.06E-67
COL9A3	18.26032	-1.27723	0.342986	-3.72386	0.000196	0.000982
SEPP1	67.30885	-1.27393	0.216945	-5.87217	4.30E-09	4.56E-08
FOXO1	219.5368	-1.27274	0.129387	-9.83668	7.83E-23	2.42E-21
ITM2C	1281.789	-1.25525	0.069862	-17.9675	3.50E-72	3.70E-70
CCDC165	158.1254	-1.25258	0.149355	-8.3866	5.00E-17	1.07E-15
GPC6	13.98914	-1.24712	0.371188	-3.35982	0.00078	0.003366
DUSP19	25.11763	-1.24639	0.312246	-3.9917	6.56E-05	0.000362

TJP2	1452.299	-1.24626	0.070067	-17.7867	8.97E-71	9.13E-69
FREM2	160.6473	-1.23433	0.271356	-4.54874	5.40E-06	3.64E-05
AGTR1	2.912472	-1.23367	0.385689	-3.19862	0.001381	0.005648
TWIST1	106.3028	-1.23068	0.183096	-6.72152	1.80E-11	2.43E-10
CHSY3	7.375884	-1.2208	0.40493	-3.01485	0.002571	0.009826
NRG4	74.48348	-1.22018	0.204889	-5.9553	2.60E-09	2.83E-08
FAM110C	224.0105	-1.21454	0.138929	-8.74218	2.29E-18	5.37E-17
PPARG	646.8943	-1.21058	0.095157	-12.7219	4.47E-37	2.33E-35
LYPD6	77.65326	-1.20736	0.202399	-5.96525	2.44E-09	2.68E-08
CXXC4	6.965546	-1.20579	0.409099	-2.94742	0.003204	0.011914
TENC1	91.12065	-1.19823	0.189068	-6.33756	2.33E-10	2.82E-09
FOSL2	1577.092	-1.1938	0.081037	-14.7315	4.05E-49	2.69E-47
SLC26A2	174.2868	-1.1936	0.141236	-8.45113	2.89E-17	6.26E-16
NTS	4.214784	-1.19277	0.40622	-2.93627	0.003322	0.012282
EGFL7	441.3732	-1.19164	0.103297	-11.536	8.69E-31	3.66E-29
PDK4	170.8972	-1.18668	0.150512	-7.8843	3.16E-15	5.95E-14
TFF1	110.4997	-1.18663	0.172329	-6.88584	5.74E-12	8.17E-11
CPPED1	28.85294	-1.1866	0.29829	-3.97799	6.95E-05	0.000382
GINS2	290.8889	-1.18246	0.114869	-10.294	7.50E-25	2.50E-23
AGR2	128.7758	-1.17938	0.164405	-7.17366	7.30E-13	1.13E-11
GPX2	293.9207	-1.17449	0.11548	-10.1704	2.69E-24	8.85E-23
MGC23284	5.255999	-1.174	0.409671	-2.86573	0.004161	0.014994
LIN7A	21.6246	-1.16779	0.323454	-3.61037	0.000306	0.001459
ID2	38.38186	-1.16658	0.273361	-4.26754	1.98E-05	0.000121
AQP5	43.98894	-1.16605	0.256013	-4.55463	5.25E-06	3.56E-05
ALDH1L1	6.944438	-1.16518	0.407401	-2.86003	0.004236	0.01523
IRS2	260.9697	-1.16043	0.122874	-9.44412	3.58E-21	1.00E-19
SIX2	242.0633	-1.15899	0.126222	-9.18216	4.23E-20	1.12E-18
C16orf74	74.77769	-1.15599	0.211968	-5.45362	4.94E-08	4.57E-07
TSC22D1	1399.784	-1.15525	0.068114	-16.9606	1.61E-64	1.48E-62
CAGE1	5.395729	-1.15352	0.408953	-2.82066	0.004793	0.01691
MIR210HG	55.03296	-1.14461	0.23626	-4.84471	1.27E-06	9.44E-06
MRPL23-A'	24.86621	-1.14321	0.313372	-3.64811	0.000264	0.001281
CLYBL	23.31622	-1.14127	0.318403	-3.58436	0.000338	0.001593
COMP	4.981577	-1.14054	0.400276	-2.84939	0.00438	0.015655
GCNT1	28.42173	-1.13372	0.298629	-3.79641	0.000147	0.000756
CKMT1B	6.304877	-1.13361	0.409268	-2.76984	0.005608	0.019314
NYNRIN	7.8736	-1.13218	0.401212	-2.82191	0.004774	0.016852
CADM1	9.453592	-1.12895	0.392282	-2.87791	0.004003	0.014484
TBX3	74.59716	-1.1237	0.215166	-5.22247	1.77E-07	1.52E-06
ZNF883	5.388657	-1.12285	0.409815	-2.7399	0.006146	0.020926
MAP4K4	1453.081	-1.12283	0.067166	-16.7173	9.81E-63	8.41E-61
ERGIC1	2701.759	-1.1214	0.057987	-19.3389	2.53E-83	3.40E-81
NME4	945.624	-1.11971	0.082927	-13.5023	1.52E-41	8.72E-40
GREM1	2.656874	-1.11792	0.377196	-2.96377	0.003039	0.011365
FCGRT	3.669414	-1.11271	0.398116	-2.79494	0.005191	0.018098
SCG2	15.91968	-1.11241	0.359409	-3.09511	0.001967	0.007718



FGFR4	301.4368	-1.11158	0.117765	-9.43898	3.76E-21	1.05E-19
AP1S3	220.9715	-1.11097	0.136003	-8.16869	3.12E-16	6.33E-15
GPRIN1	191.6551	-1.11008	0.136519	-8.13132	4.25E-16	8.51E-15
LRRTM1	4.89879	-1.10994	0.408951	-2.71411	0.006645	0.022351
TCIRG1	376.444	-1.10833	0.114162	-9.70835	2.78E-22	8.23E-21
LOC37529!	5.800754	-1.10771	0.409789	-2.70312	0.006869	0.022982
SLC37A2	39.22953	-1.10473	0.262897	-4.20215	2.64E-05	0.000159
ZADH2	390.2776	-1.09815	0.102257	-10.7392	6.67E-27	2.45E-25
TWF2	650.3962	-1.09724	0.087235	-12.578	2.79E-36	1.43E-34
CITED4	19.61888	-1.09446	0.344807	-3.17412	0.001503	0.00608
FAIM2	66.15924	-1.09073	0.214673	-5.08087	3.76E-07	3.05E-06
BOK-AS1	20.8991	-1.09049	0.329818	-3.30634	0.000945	0.004016
GMPR	4.222447	-1.08918	0.402788	-2.70409	0.006849	0.022925
APLP1	13.6129	-1.08838	0.367	-2.9656	0.003021	0.011307
GALNT1	1878.13	-1.08642	0.059732	-18.1883	6.38E-74	6.88E-72
PRADC1	153.64	-1.0848	0.155794	-6.96304	3.33E-12	4.82E-11
MMP2	28.26353	-1.08251	0.312312	-3.46613	0.000528	0.002376
NR2F1	84.97155	-1.08141	0.201037	-5.37915	7.48E-08	6.80E-07
FASTKD1	217.6875	-1.07921	0.130626	-8.26183	1.43E-16	2.96E-15
LOC38902:	6.150913	-1.07355	0.40857	-2.62757	0.0086	0.027765
FAM210B	152.7113	-1.07239	0.154915	-6.92242	4.44E-12	6.35E-11
TMC6	523.2893	-1.07067	0.090606	-11.8168	3.20E-32	1.43E-30
LOC84989	21.43807	-1.0701	0.323178	-3.31116	0.000929	0.003957
FBXO36	19.52936	-1.06911	0.334449	-3.19661	0.001391	0.005681
FAM151A	20.04856	-1.06902	0.328728	-3.25198	0.001146	0.004788
UGT1A3	3.331938	-1.06606	0.397176	-2.68411	0.007272	0.024122
MECOM	714.3868	-1.0641	0.082496	-12.8989	4.57E-38	2.43E-36
PTGS1	4.251972	-1.0632	0.40695	-2.6126	0.008986	0.028813
WDR72	261.756	-1.05956	0.121815	-8.69809	3.38E-18	7.86E-17
MRAP2	29.01976	-1.05698	0.2935	-3.60131	0.000317	0.001505
LOC10065:	12.37394	-1.05539	0.376139	-2.80586	0.005018	0.017571
NDRG2	244.1965	-1.0542	0.130589	-8.07265	6.88E-16	1.36E-14
LIMK1	507.0572	-1.05372	0.091808	-11.4773	1.71E-30	7.16E-29
MFAP3L	11.34807	-1.04911	0.385392	-2.7222	0.006485	0.021886
TBC1D4	255.6664	-1.04771	0.121601	-8.61598	6.93E-18	1.57E-16
SPARC	7.03435	-1.04723	0.405435	-2.58298	0.009795	0.030966
CHRM4	5.139038	-1.04634	0.409743	-2.55365	0.01066	0.033259
C20orf201	3.24541	-1.04622	0.39659	-2.63804	0.008339	0.027011
LOC100286	3.66597	-1.04569	0.402393	-2.59868	0.009358	0.029781
PCDHGB2	7.585699	-1.0454	0.404743	-2.58287	0.009798	0.030966
RHOBTB1	52.18414	-1.04413	0.24356	-4.28696	1.81E-05	0.000112
ZNF467	57.3285	-1.04245	0.231042	-4.51197	6.42E-06	4.29E-05
DNAJC30	237.8222	-1.03816	0.126294	-8.22018	2.03E-16	4.16E-15
SERPINE2	1254.125	-1.03747	0.068612	-15.1207	1.18E-51	8.46E-50
FABP6	5.938911	-1.03721	0.408794	-2.53724	0.011173	0.034597
PCSK4	19.16617	-1.03632	0.34276	-3.02345	0.002499	0.009586
EHD3	32.61945	-1.03508	0.281653	-3.67502	0.000238	0.001169

PIK3CD	10.87561	-1.03498	0.388417	-2.66461	0.007708	0.025308
EGF	70.61954	-1.03337	0.207908	-4.97031	6.68E-07	5.24E-06
PRKX	112.3767	-1.03108	0.171351	-6.01735	1.77E-09	1.97E-08
PCDHB5	7.901846	-1.03025	0.401035	-2.56898	0.0102	0.032007
TMEM178	3.789501	-1.02815	0.403122	-2.55047	0.010758	0.033507
LOC10028	89.12781	-1.02645	0.19909	-5.15571	2.53E-07	2.12E-06
LBH	192.1006	-1.02287	0.140013	-7.30556	2.76E-13	4.42E-12
PROS1	8.745316	-1.0221	0.395787	-2.58246	0.00981	0.030996
EEF2K	350.0981	-1.02105	0.105374	-9.68983	3.33E-22	9.83E-21
LRP5	2269.543	-1.01688	0.05982	-16.999	8.36E-65	7.76E-63
SERPINA1	10.93469	-1.0162	0.382363	-2.65768	0.007868	0.025748
SLC45A3	306.0822	-1.01567	0.110932	-9.1558	5.40E-20	1.43E-18
RCAN3	27.07781	-1.0134	0.299185	-3.38719	0.000706	0.003082
MLXIPL	37.93073	-1.01131	0.267689	-3.77795	0.000158	0.000807
CPT1B	8.364058	-1.00972	0.399043	-2.53035	0.011395	0.03517
CNR2	3.247096	-1.00231	0.395129	-2.53666	0.011192	0.034638
PDE6D	113.0014	-0.9986	0.172805	-5.77874	7.53E-09	7.72E-08
NRN1	33.69893	-0.996	0.293962	-3.3882	0.000704	0.003072
FAM171A2	64.97644	-0.9937	0.214739	-4.62748	3.70E-06	2.57E-05
LOC10013	34.36543	-0.99324	0.27464	-3.61652	0.000299	0.001428
ODZ4	3.590071	-0.99306	0.400141	-2.48176	0.013073	0.039576
TMEM53	37.34492	-0.99206	0.268648	-3.69278	0.000222	0.001096
SOX8	12.12449	-0.99028	0.38021	-2.60456	0.009199	0.029389
FGD3	4.878126	-0.98686	0.409383	-2.41062	0.015926	0.046697
GNN	7.165324	-0.98641	0.405955	-2.42985	0.015105	0.044685
PRKD1	42.08278	-0.98472	0.255161	-3.85922	0.000114	0.000599
SLC6A19	2.238849	-0.98109	0.365562	-2.68377	0.00728	0.024141
HOXD8	53.1899	-0.97981	0.239893	-4.08436	4.42E-05	0.000252
PPP1R3G	26.19758	-0.97846	0.30754	-3.18158	0.001465	0.005947
LGALS1	251.142	-0.97676	0.120933	-8.07685	6.65E-16	1.32E-14
TRIM41	761.0301	-0.9767	0.077494	-12.6035	2.02E-36	1.04E-34
C4orf33	93.42806	-0.97647	0.19226	-5.07889	3.80E-07	3.08E-06
VSTM2L	36.75678	-0.97591	0.267389	-3.64979	0.000262	0.001274
KIAA0182	385.557	-0.97523	0.103108	-9.45834	3.13E-21	8.82E-20
SLC40A1	13.68579	-0.97507	0.372475	-2.61782	0.008849	0.028421
TRIM7	495.8057	-0.97507	0.097091	-10.0429	9.87E-24	3.18E-22
PRR15	214.7605	-0.96559	0.130531	-7.3974	1.39E-13	2.29E-12
LYPD6B	157.3386	-0.96444	0.148467	-6.496	8.25E-11	1.05E-09
ZNF792	76.49138	-0.96437	0.201171	-4.79377	1.64E-06	1.20E-05
MYO15B	45.31526	-0.96331	0.250531	-3.84508	0.000121	0.000632
GATA6	233.408	-0.96158	0.127283	-7.55466	4.20E-14	7.24E-13
LOC25410	11.89851	-0.95923	0.38144	-2.51476	0.011911	0.036495
RAB26	62.3751	-0.95447	0.220715	-4.32444	1.53E-05	9.53E-05
CLVS1	93.58335	-0.95393	0.183776	-5.19075	2.09E-07	1.78E-06
PCDHB2	9.590656	-0.95356	0.389998	-2.44503	0.014484	0.043135
CMC2	240.5068	-0.95164	0.127556	-7.46055	8.62E-14	1.44E-12
TPK1	9.251974	-0.95163	0.393093	-2.42089	0.015483	0.04559

IGSF11	36.7104	-0.95156	0.268286	-3.54683	0.00039	0.001816
IDH1	739.859	-0.95086	0.082049	-11.5888	4.69E-31	2.00E-29
PTTG1	852.5966	-0.94961	0.08151	-11.6503	2.29E-31	9.92E-30
S100A1	15.10332	-0.94904	0.355963	-2.66613	0.007673	0.025205
PRDM1	20.07546	-0.94874	0.332498	-2.85338	0.004326	0.015501
OSTF1	191.5276	-0.94792	0.139313	-6.80426	1.02E-11	1.41E-10
PRICKLE4	101.4861	-0.94743	0.177784	-5.32912	9.87E-08	8.79E-07
BPHL	59.94505	-0.94699	0.222005	-4.26563	1.99E-05	0.000122
HILPDA	64.29194	-0.94652	0.214796	-4.4066	1.05E-05	6.76E-05
FAM195A	302.5329	-0.94632	0.111565	-8.48225	2.21E-17	4.81E-16
AFAP1L2	977.4726	-0.943	0.077688	-12.1383	6.62E-34	3.08E-32
SLITRK5	29.92306	-0.942	0.302877	-3.11019	0.00187	0.00738
LOC100288	27.70774	-0.94068	0.295837	-3.17972	0.001474	0.00598
CCDC34	298.5782	-0.93897	0.116326	-8.0719	6.92E-16	1.37E-14
CGREF1	27.04076	-0.93892	0.307605	-3.05235	0.002271	0.008804
C3orf58	210.938	-0.93445	0.137992	-6.77175	1.27E-11	1.74E-10
MYO1F	9.544096	-0.93402	0.389542	-2.39773	0.016497	0.048132
TMEM198	27.61523	-0.93331	0.298602	-3.12559	0.001774	0.007042
HSPE1	251.5265	-0.93254	0.130108	-7.16744	7.64E-13	1.18E-11
RCN3	18.85569	-0.93244	0.343864	-2.71167	0.006695	0.02248
TMEM52	11.94397	-0.93192	0.376317	-2.47642	0.013271	0.040038
PAPSS2	91.09097	-0.92843	0.186524	-4.97753	6.44E-07	5.06E-06
ZNF876P	2.026847	-0.92822	0.360426	-2.57534	0.010014	0.031553
FUK	152.4141	-0.92642	0.14928	-6.20591	5.44E-10	6.34E-09
SAMD13	12.82805	-0.92593	0.375522	-2.46571	0.013674	0.041048
MTMR2	671.9062	-0.92517	0.082998	-11.1469	7.41E-29	2.91E-27
ARL6IP1	1904.598	-0.92486	0.061821	-14.9603	1.33E-50	9.27E-49
FAM13A-A	24.33534	-0.923	0.310818	-2.96959	0.002982	0.011181
PLCB1	104.5175	-0.9223	0.1829	-5.04263	4.59E-07	3.68E-06
CFDP1	310.0971	-0.92165	0.110431	-8.3459	7.07E-17	1.49E-15
HOXA13	86.80319	-0.9198	0.19681	-4.67357	2.96E-06	2.09E-05
TMPRSS4	11.28357	-0.91978	0.383239	-2.40003	0.016394	0.047869
ATP7A	118.643	-0.91899	0.170733	-5.38265	7.34E-08	6.67E-07
SLC9A2	40.3517	-0.91788	0.262896	-3.49141	0.00048	0.002183
MVD	300.3563	-0.91766	0.126107	-7.27684	3.42E-13	5.45E-12
KCNQ4	11.67731	-0.91671	0.376714	-2.43344	0.014956	0.044333
PCDHB14	18.05383	-0.91434	0.338633	-2.70009	0.006932	0.02315
1-Sep	12.97665	-0.91309	0.367744	-2.48294	0.01303	0.039462
TMEM135	333.6625	-0.91187	0.109467	-8.33014	8.07E-17	1.69E-15
CTSC	1419.223	-0.91124	0.065649	-13.8805	8.31E-44	5.00E-42
COX20	184.2023	-0.91104	0.139471	-6.53209	6.49E-11	8.31E-10
KLF13	860.2564	-0.90919	0.086081	-10.5621	4.47E-26	1.59E-24
RPP40	85.38051	-0.90751	0.190002	-4.77633	1.79E-06	1.30E-05
PRSS12	195.7814	-0.90669	0.137726	-6.5833	4.60E-11	5.98E-10
ALK	2.322597	-0.90603	0.375902	-2.41029	0.01594	0.046729
TRIB2	795.2705	-0.90586	0.078105	-11.598	4.22E-31	1.80E-29
CCDC152	39.20096	-0.90345	0.268225	-3.36826	0.000756	0.003277

COL17A1	203.9915	-0.90239	0.135167	-6.67613	2.45E-11	3.27E-10
DBP	44.32004	-0.90078	0.250956	-3.58938	0.000331	0.001566
PVRL1	1381.779	-0.90043	0.073614	-12.2317	2.11E-34	9.96E-33
B3GNT3	354.65	-0.89981	0.107477	-8.3721	5.66E-17	1.20E-15
C8orf55	801.1931	-0.89886	0.076603	-11.734	8.53E-32	3.78E-30
DLEU1	92.83904	-0.89806	0.182444	-4.92239	8.55E-07	6.56E-06
NUDCD2	502.5716	-0.89721	0.099963	-8.97534	2.82E-19	7.09E-18
MICALCL	16.51597	-0.89623	0.353521	-2.53514	0.01124	0.034756
TMEM19	261.4199	-0.89548	0.118621	-7.54909	4.38E-14	7.53E-13
C2orf69	118.6385	-0.89437	0.164143	-5.44872	5.07E-08	4.70E-07
ZNF771	80.27055	-0.89431	0.202944	-4.40668	1.05E-05	6.76E-05
C2orf72	43.05581	-0.89223	0.250589	-3.56053	0.00037	0.001731
FOXQ1	71.01526	-0.8907	0.212589	-4.18977	2.79E-05	0.000167
DBN1	1537.59	-0.8906	0.06657	-13.3783	8.10E-41	4.62E-39
MARS2	127.9045	-0.88985	0.167903	-5.29977	1.16E-07	1.02E-06
PYCARD	288.4455	-0.88978	0.125881	-7.06847	1.57E-12	2.35E-11
ATHL1	111.9697	-0.88754	0.170573	-5.20327	1.96E-07	1.67E-06
BNIP3	111.0547	-0.88581	0.1723	-5.1411	2.73E-07	2.28E-06
C10orf58	803.1879	-0.88505	0.081551	-10.8528	1.93E-27	7.25E-26
MBD5	26.55933	-0.88458	0.301003	-2.93877	0.003295	0.01221
C9orf95	36.81599	-0.88317	0.268321	-3.29146	0.000997	0.004216
NR1H3	171.1104	-0.88268	0.154798	-5.70215	1.18E-08	1.19E-07
MFSD9	177.9	-0.8818	0.140774	-6.26395	3.75E-10	4.44E-09
PLCG2	17.67196	-0.87957	0.343285	-2.56222	0.010401	0.032533
NEB	24.65874	-0.87886	0.31702	-2.77225	0.005567	0.019194
C11orf67	78.81573	-0.87463	0.19618	-4.45832	8.26E-06	5.41E-05
ADAM19	16.56122	-0.87454	0.346905	-2.52097	0.011703	0.035941
DNAJB5	72.14794	-0.87406	0.207302	-4.21635	2.48E-05	0.00015
C6orf141	61.21596	-0.87202	0.220443	-3.95578	7.63E-05	0.000416
HIGD2A	713.5137	-0.87097	0.084557	-10.3004	7.02E-25	2.35E-23
STEAP3	372.2378	-0.8693	0.104194	-8.34312	7.24E-17	1.52E-15
TSKU	576.4735	-0.86837	0.09058	-9.58686	9.08E-22	2.63E-20
PGAP1	98.28108	-0.86819	0.184541	-4.70459	2.54E-06	1.81E-05
CASP8	246.4926	-0.86734	0.120679	-7.18711	6.62E-13	1.03E-11
PAK3	47.17854	-0.86579	0.246416	-3.51353	0.000442	0.00203
PCTP	354.8202	-0.86492	0.103871	-8.32686	8.30E-17	1.74E-15
ACSL3	2142.951	-0.86113	0.060435	-14.2488	4.56E-46	2.87E-44
PPIP5K1	211.6544	-0.85891	0.139908	-6.13912	8.30E-10	9.50E-09
GPR113	31.28995	-0.85833	0.288194	-2.9783	0.002898	0.010904
RPL26L1	158.9433	-0.85823	0.149827	-5.72813	1.02E-08	1.03E-07
TRAM1L1	15.23424	-0.85665	0.355752	-2.40799	0.016041	0.046978
HJURP	560.3323	-0.85614	0.086164	-9.93621	2.90E-23	9.13E-22
ETS2	749.0617	-0.85595	0.080811	-10.5919	3.25E-26	1.16E-24
PCCA	119.1544	-0.85211	0.166452	-5.11925	3.07E-07	2.53E-06
MICAL2	140.9589	-0.8514	0.168712	-5.04647	4.50E-07	3.61E-06
ATP5G3	2148.032	-0.85094	0.069859	-12.1808	3.93E-34	1.85E-32
SPCS2	139.864	-0.85053	0.155348	-5.47501	4.37E-08	4.08E-07

LOC10030:	42.00491	-0.85014	0.264628	-3.21259	0.001315	0.005412
GLYCTK	51.6286	-0.84969	0.236371	-3.59472	0.000325	0.001537
TSPAN12	33.74507	-0.84667	0.278012	-3.04543	0.002323	0.00898
TMEM117	29.70949	-0.84272	0.288101	-2.9251	0.003443	0.012677
LOC113230	27.79572	-0.84091	0.299741	-2.80545	0.005025	0.017589
TMEM8A	390.1155	-0.84091	0.101756	-8.26394	1.41E-16	2.92E-15
MGAT1	1008.925	-0.84078	0.072646	-11.5736	5.61E-31	2.38E-29
PPIL3	104.5411	-0.84008	0.174491	-4.81447	1.48E-06	1.09E-05
MARCKSL1	674.9698	-0.83984	0.084709	-9.91442	3.60E-23	1.13E-21
REEP6	97.14275	-0.83982	0.178842	-4.69586	2.65E-06	1.89E-05
GCA	133.7476	-0.83952	0.165788	-5.06385	4.11E-07	3.32E-06
NTAN1	148.3052	-0.83881	0.151895	-5.5223	3.35E-08	3.18E-07
ATF2	370.9087	-0.83858	0.105217	-7.97	1.59E-15	3.04E-14
D2HGDH	127.6518	-0.83554	0.161271	-5.18097	2.21E-07	1.87E-06
THBD	92.80865	-0.83534	0.187504	-4.45504	8.39E-06	5.49E-05
EIF4H	1668.965	-0.8341	0.063759	-13.0822	4.16E-39	2.28E-37
C11orf92	17.01365	-0.83334	0.345968	-2.40872	0.016009	0.046894
NHLRC3	239.4915	-0.83287	0.122996	-6.77155	1.27E-11	1.74E-10
FAM89B	199.9988	-0.83197	0.131704	-6.31692	2.67E-10	3.21E-09
ARRB1	86.3105	-0.83162	0.188228	-4.41818	9.95E-06	6.44E-05
PPARGC1B	156.417	-0.83156	0.157188	-5.29026	1.22E-07	1.07E-06
COG6	170.3908	-0.83132	0.143519	-5.79243	6.94E-09	7.14E-08
METTL20	26.64497	-0.82871	0.298481	-2.77644	0.005496	0.018998
FNIP2	62.30305	-0.82589	0.217594	-3.79558	0.000147	0.000758
CENPN	606.4428	-0.82516	0.086437	-9.5464	1.34E-21	3.85E-20
C11orf35	28.44119	-0.82487	0.291511	-2.82963	0.00466	0.016538
GCNT2	257.1939	-0.82459	0.118226	-6.97475	3.06E-12	4.45E-11
SNCG	95.32114	-0.82325	0.192906	-4.2676	1.98E-05	0.000121
RAB24	292.7825	-0.82296	0.116235	-7.08016	1.44E-12	2.17E-11
CAMKK1	73.19964	-0.82283	0.208852	-3.93976	8.16E-05	0.000442
LSM11	103.0479	-0.82274	0.183263	-4.48937	7.14E-06	4.73E-05
SLC6A6	600.6592	-0.82149	0.098093	-8.37461	5.54E-17	1.18E-15
PGP	514.6559	-0.81964	0.105251	-7.78755	6.83E-15	1.25E-13
KIF3C	46.54468	-0.8181	0.259398	-3.15386	0.001611	0.006479
NUDT8	111.799	-0.81719	0.173079	-4.72151	2.34E-06	1.67E-05
CDKL5	21.08283	-0.81521	0.332551	-2.45138	0.014231	0.042484
SLC44A3	31.90114	-0.81501	0.281185	-2.8985	0.00375	0.013674
TMEM2	503.5729	-0.81431	0.103277	-7.88471	3.15E-15	5.94E-14
DLG4	303.8701	-0.81404	0.111194	-7.32089	2.46E-13	3.96E-12
GALNT10	555.0041	-0.81298	0.090239	-9.00918	2.08E-19	5.25E-18
PIR	154.0044	-0.81178	0.146753	-5.53161	3.17E-08	3.03E-07
SLC2A13	37.91944	-0.81145	0.268833	-3.01842	0.002541	0.009729
ISOC2	546.6986	-0.81067	0.091611	-8.84913	8.82E-19	2.15E-17
PLCD1	34.05671	-0.81023	0.273322	-2.96437	0.003033	0.011349
KANSL1L	133.7401	-0.8102	0.159215	-5.08871	3.61E-07	2.94E-06
HPDL	236.3633	-0.80923	0.130082	-6.22091	4.94E-10	5.78E-09
ACADS	161.1569	-0.80901	0.144841	-5.5855	2.33E-08	2.27E-07

FLJ46906	97.2547	-0.80744	0.182275	-4.42979	9.43E-06	6.13E-05
SOX2	248.2437	-0.80741	0.120728	-6.68786	2.26E-11	3.03E-10
PAIP2B	75.66966	-0.80673	0.203102	-3.97201	7.13E-05	0.000392
GALNS	136.8219	-0.80627	0.159752	-5.047	4.49E-07	3.61E-06
SP140L	139.262	-0.80623	0.153587	-5.24931	1.53E-07	1.32E-06
NME3	261.8205	-0.80459	0.125523	-6.40985	1.46E-10	1.79E-09
HMOX2	290.8116	-0.80442	0.117131	-6.86765	6.53E-12	9.20E-11
CCDC167	130.3302	-0.80416	0.166655	-4.82532	1.40E-06	1.03E-05
ARHGEF40	278.0603	-0.80236	0.118912	-6.74751	1.50E-11	2.05E-10
S100A14	320.0787	-0.80213	0.118925	-6.74484	1.53E-11	2.08E-10
CARHSP1	344.9341	-0.80212	0.106417	-7.53748	4.79E-14	8.20E-13
HFE	144.0551	-0.80167	0.152918	-5.24252	1.58E-07	1.37E-06
CAMK2N1	56.73447	-0.80071	0.2282	-3.50879	0.00045	0.002062
PLEKHA3	69.15635	-0.80048	0.214382	-3.7339	0.000189	0.000947
PECAM1	42.98528	-0.80034	0.254147	-3.1491	0.001638	0.006571
PITPNM3	55.46169	-0.79837	0.231302	-3.45161	0.000557	0.002492
C19orf76	62.25151	-0.79782	0.215078	-3.70946	0.000208	0.001035
ST3GAL2	235.0137	-0.79611	0.123622	-6.43987	1.20E-10	1.49E-09
DNAJC22	75.22396	-0.79518	0.207873	-3.82533	0.000131	0.000679
ACOT11	53.70356	-0.79504	0.236217	-3.36572	0.000763	0.003305
ELF3	1553.724	-0.79469	0.063407	-12.5331	4.92E-36	2.48E-34
RTN2	30.43316	-0.7946	0.292812	-2.7137	0.006654	0.022363
SPEG	34.70814	-0.79324	0.275997	-2.87409	0.004052	0.014635
ABCC1	553.6319	-0.79223	0.092943	-8.52386	1.54E-17	3.41E-16
TMEM144	64.10092	-0.7919	0.219871	-3.60167	0.000316	0.001503
MLLT11	145.9793	-0.79173	0.156354	-5.06369	4.11E-07	3.32E-06
WBSCR22	644.7413	-0.7906	0.094155	-8.39677	4.59E-17	9.81E-16
MPP7	45.22524	-0.79058	0.24565	-3.21833	0.001289	0.005317
PER2	190.8275	-0.79048	0.137384	-5.75379	8.73E-09	8.90E-08
LOC728730	22.55834	-0.78902	0.314725	-2.50701	0.012176	0.037174
SDF2L1	550.0426	-0.78351	0.090792	-8.62972	6.15E-18	1.40E-16
C9orf41	93.07334	-0.78289	0.195578	-4.00297	6.26E-05	0.000347
PDK1	139.6714	-0.77954	0.153736	-5.0706	3.97E-07	3.21E-06
PGAM1	322.1271	-0.77874	0.111183	-7.00416	2.48E-12	3.66E-11
ATP10D	65.4963	-0.77819	0.211289	-3.68305	0.00023	0.001136
RETSAT	592.4592	-0.77766	0.084322	-9.2225	2.90E-20	7.78E-19
FRG1B	33.53024	-0.77749	0.2775	-2.80177	0.005082	0.017757
DDB2	389.4391	-0.77617	0.101424	-7.65271	1.97E-14	3.50E-13
HHEX	118.6434	-0.77564	0.170331	-4.55375	5.27E-06	3.57E-05
UTRN	448.8147	-0.7755	0.193442	-4.00894	6.10E-05	0.000339
IFT172	166.6883	-0.77411	0.144798	-5.34615	8.98E-08	8.04E-07
OAS1	118.9782	-0.77392	0.171732	-4.50659	6.59E-06	4.39E-05
RAB1B	1461.86	-0.77249	0.06301	-12.2597	1.49E-34	7.09E-33
MRPL22	519.1985	-0.77134	0.097504	-7.91083	2.56E-15	4.83E-14
SEPX1	211.1462	-0.76967	0.128671	-5.98167	2.21E-09	2.44E-08
CFL2	335.3816	-0.76907	0.106979	-7.18897	6.53E-13	1.01E-11
CASP10	34.45832	-0.76868	0.274399	-2.80132	0.005089	0.017778

ITFG3	499.764	-0.76741	0.09548	-8.03735	9.18E-16	1.81E-14
CENPA	322.0391	-0.76724	0.108922	-7.04396	1.87E-12	2.79E-11
TMTC2	116.2891	-0.76716	0.180034	-4.26121	2.03E-05	0.000124
CDKL4	25.92922	-0.76472	0.305777	-2.50091	0.012387	0.037741
PIK3R3	249.6831	-0.76245	0.125831	-6.05929	1.37E-09	1.54E-08
BMPR2	227.7088	-0.7615	0.133436	-5.70682	1.15E-08	1.16E-07
RBM47	625.5164	-0.76047	0.092467	-8.2243	1.96E-16	4.02E-15
ALS2CR8	46.32706	-0.75979	0.253945	-2.99193	0.002772	0.010485
FITM2	35.65835	-0.75728	0.271177	-2.79259	0.005229	0.0182
H2AFJ	738.3263	-0.75692	0.089523	-8.45508	2.79E-17	6.06E-16
ALPK1	94.51621	-0.75662	0.187192	-4.04197	5.30E-05	0.000298
TRADD	184.3429	-0.75622	0.136969	-5.52105	3.37E-08	3.20E-07
RAB38	157.3483	-0.75564	0.158606	-4.76424	1.90E-06	1.37E-05
FAM117B	119.3525	-0.75564	0.165122	-4.57622	4.73E-06	3.23E-05
METTL9	567.746	-0.75545	0.087153	-8.66809	4.39E-18	1.01E-16
NHSL1	218.1032	-0.75471	0.126241	-5.97829	2.25E-09	2.49E-08
VEGFB	328.0629	-0.75371	0.109574	-6.87858	6.05E-12	8.58E-11
PDF	94.48721	-0.75353	0.199499	-3.77709	0.000159	0.000809
B3GNT1	160.7086	-0.75328	0.146307	-5.14867	2.62E-07	2.19E-06
ITGA5	174.3173	-0.75295	0.147987	-5.08796	3.62E-07	2.95E-06
UQCRH	858.2354	-0.7526	0.08529	-8.82402	1.10E-18	2.67E-17
MXD3	464.6821	-0.7515	0.100455	-7.48097	7.38E-14	1.24E-12
CAMK2D	277.1082	-0.75089	0.116264	-6.45852	1.06E-10	1.33E-09
THOC3	153.5531	-0.75081	0.147602	-5.08669	3.64E-07	2.97E-06
ERVK13-1	52.23384	-0.75022	0.23867	-3.14336	0.00167	0.006683
PIGN	234.2846	-0.74986	0.12781	-5.867	4.44E-09	4.69E-08
POLR3G	52.35607	-0.74938	0.234924	-3.18989	0.001423	0.005802
B4GALT6	64.38233	-0.74918	0.216254	-3.46434	0.000532	0.002388
DBI	1039.395	-0.74816	0.077164	-9.69564	3.15E-22	9.30E-21
UBE2E3	182.9681	-0.7475	0.136228	-5.48711	4.09E-08	3.84E-07
DCTPP1	790.6806	-0.74509	0.088246	-8.4433	3.08E-17	6.66E-16
ABCA1	253.7092	-0.74445	0.131692	-5.65295	1.58E-08	1.57E-07
ELK3	86.46381	-0.74372	0.191691	-3.8798	0.000105	0.000554
VANGL1	478.8963	-0.74319	0.101514	-7.32108	2.46E-13	3.96E-12
DNPEP	493.436	-0.74307	0.09104	-8.16203	3.29E-16	6.67E-15
LOC100506	25.00195	-0.74234	0.304455	-2.43826	0.014758	0.043816
ABHD14A	25.34725	-0.74202	0.305877	-2.42587	0.015272	0.045083
BTN3A3	75.79345	-0.74182	0.210027	-3.53204	0.000412	0.001908
PECR	52.0739	-0.7406	0.235729	-3.14173	0.00168	0.006714
MCEE	55.71714	-0.74038	0.225146	-3.28845	0.001007	0.004257
MDFI	142.9997	-0.74034	0.156746	-4.72316	2.32E-06	1.66E-05
ARMCX6	158.1043	-0.74006	0.147904	-5.00369	5.62E-07	4.45E-06
N4BP3	183.5352	-0.73957	0.144093	-5.13256	2.86E-07	2.37E-06
ACSL4	2562.207	-0.73943	0.056319	-13.1294	2.23E-39	1.23E-37
IFI35	229.9294	-0.73746	0.125707	-5.8665	4.45E-09	4.70E-08
GPR141	77.02683	-0.73728	0.203333	-3.62595	0.000288	0.001383
NPM1	3721.474	-0.73687	0.058952	-12.4996	7.51E-36	3.73E-34

SEMA3F	278.998	-0.73661	0.116937	-6.29922	2.99E-10	3.58E-09
PDE7B	184.8865	-0.73509	0.135882	-5.40978	6.31E-08	5.78E-07
WDFY1	342.053	-0.735	0.10637	-6.9098	4.85E-12	6.92E-11
TMED9	3373.936	-0.73389	0.065566	-11.1931	4.41E-29	1.75E-27
OBSL1	448.7633	-0.73238	0.099886	-7.33219	2.26E-13	3.67E-12
UNKL	184.5309	-0.73191	0.136744	-5.35243	8.68E-08	7.80E-07
PCSK9	34.31386	-0.73183	0.273018	-2.68051	0.007351	0.024355
MED7	137.0691	-0.72979	0.156139	-4.67395	2.95E-06	2.08E-05
FOPNL	299.5511	-0.72895	0.117913	-6.1821	6.33E-10	7.32E-09
DECR2	134.6023	-0.72872	0.155039	-4.70025	2.60E-06	1.85E-05
LRP1	204.6525	-0.72869	0.155659	-4.68134	2.85E-06	2.01E-05
FOXO4	79.40585	-0.72867	0.198773	-3.66584	0.000247	0.001205
KIAA0895L	140.9579	-0.72803	0.154678	-4.70675	2.52E-06	1.79E-05
DUSP1	275.7942	-0.72729	0.114164	-6.37061	1.88E-10	2.29E-09
WVOX	69.30795	-0.72694	0.220388	-3.29845	0.000972	0.004116
SLC2A1	8236.773	-0.72636	0.048599	-14.9461	1.65E-50	1.14E-48
C8orf31	44.71784	-0.72588	0.245798	-2.95317	0.003145	0.011718
LRP4	110.1303	-0.72541	0.174373	-4.16008	3.18E-05	0.000188
SLCO1B3	224.6954	-0.72521	0.126227	-5.74528	9.18E-09	9.34E-08
EHBP1L1	698.7083	-0.72517	0.080145	-9.04822	1.45E-19	3.71E-18
THAP8	28.17362	-0.72443	0.292422	-2.47736	0.013236	0.039978
ALDOC	94.84012	-0.72425	0.18865	-3.8391	0.000123	0.000645
CNOT6	849.2163	-0.72357	0.083512	-8.66426	4.54E-18	1.04E-16
GAS1	53.48652	-0.72299	0.230722	-3.13361	0.001727	0.006884
ZDHHC23	138.311	-0.72258	0.155367	-4.65082	3.31E-06	2.31E-05
CLINT1	1307.747	-0.72153	0.064282	-11.2245	3.09E-29	1.24E-27
BOK	199.0741	-0.72122	0.132692	-5.43529	5.47E-08	5.04E-07
RG9MTD2	68.32013	-0.72036	0.213137	-3.37979	0.000725	0.003159
MPG	385.7115	-0.71997	0.111068	-6.48227	9.04E-11	1.15E-09
LOC33980:	121.6365	-0.71932	0.1685	-4.26898	1.96E-05	0.000121
NDUFB10	654.0572	-0.71932	0.083606	-8.60367	7.72E-18	1.74E-16
VAT1	580.4673	-0.71865	0.086045	-8.35203	6.71E-17	1.42E-15
TSPAN17	523.2707	-0.71822	0.091724	-7.83028	4.87E-15	9.01E-14
DEPTOR	26.43711	-0.71723	0.300025	-2.39056	0.016823	0.048955
COQ2	320.6157	-0.71684	0.110762	-6.47192	9.68E-11	1.23E-09
PEX2	335.4661	-0.71606	0.107539	-6.65864	2.76E-11	3.67E-10
STK25	764.7815	-0.71465	0.079701	-8.96663	3.06E-19	7.65E-18
PRELID1	820.5379	-0.71454	0.093208	-7.66615	1.77E-14	3.17E-13
SLC25A30	75.10637	-0.71381	0.201511	-3.54228	0.000397	0.001842
FAM134A	521.3439	-0.71289	0.088713	-8.036	9.28E-16	1.82E-14
E2F8	137.0532	-0.71289	0.155639	-4.58038	4.64E-06	3.17E-05
CD320	940.2549	-0.71126	0.081029	-8.77783	1.67E-18	3.95E-17
LPCAT3	594.7011	-0.71026	0.089116	-7.97007	1.59E-15	3.04E-14
FRRS1	79.28179	-0.70981	0.195744	-3.62624	0.000288	0.001382
LBR	1114.784	-0.70949	0.074887	-9.47406	2.69E-21	7.62E-20
GMPPA	388.5272	-0.70763	0.106648	-6.63525	3.24E-11	4.28E-10
CLN5	153.2982	-0.7076	0.151161	-4.68111	2.85E-06	2.01E-05



METTL21A	104.6168	-0.70668	0.173376	-4.07598	4.58E-05	0.000261
DTWD2	73.27145	-0.70446	0.212457	-3.31577	0.000914	0.003895
EIF4E	104.7446	-0.70416	0.173995	-4.04701	5.19E-05	0.000292
BLVRB	668.4447	-0.7039	0.082839	-8.49725	1.94E-17	4.27E-16
TMEM120	160.6701	-0.70387	0.146979	-4.78896	1.68E-06	1.22E-05
CCDC22	121.3468	-0.70365	0.164674	-4.27298	1.93E-05	0.000119
C4orf3	401.505	-0.70295	0.103679	-6.78004	1.20E-11	1.65E-10
RAP2A	132.5422	-0.70278	0.158316	-4.43912	9.03E-06	5.89E-05
SRD5A3	147.4483	-0.70278	0.151629	-4.63485	3.57E-06	2.48E-05
SP100	268.5937	-0.70257	0.120119	-5.84898	4.95E-09	5.19E-08
CPT1A	993.8669	-0.70204	0.072188	-9.72513	2.36E-22	7.05E-21
RPP30	253.9133	-0.7017	0.119049	-5.89417	3.77E-09	4.04E-08
ZNF438	33.48799	-0.70082	0.2849	-2.45987	0.013899	0.041654
C10orf95	52.26694	-0.7	0.241678	-2.89643	0.003774	0.013737
INSIG2	198.7636	0.700014	0.139646	5.012775	5.37E-07	4.26E-06
GPHN	154.246	0.700033	0.154935	4.518229	6.24E-06	4.17E-05
FNBP1	236.9129	0.700168	0.130578	5.362051	8.23E-08	7.43E-07
SLC43A2	64.81739	0.700889	0.220469	3.17908	0.001477	0.00599
LRRC8A	739.155	0.702051	0.084675	8.291132	1.12E-16	2.34E-15
NBR2	51.23672	0.702862	0.234507	2.997191	0.002725	0.010335
GPSM1	65.464	0.70327	0.21269	3.306545	0.000945	0.004015
BSPRY	49.75502	0.703995	0.237864	2.959651	0.00308	0.01151
SLC25A33	38.44788	0.704648	0.295199	2.387031	0.016985	0.049389
RNF19A	255.6547	0.704732	0.119086	5.917832	3.26E-09	3.51E-08
ZNF57	60.01541	0.704767	0.219959	3.204081	0.001355	0.005553
LOC28445	74.91878	0.70526	0.200695	3.514091	0.000441	0.002027
S100A10	947.528	0.70543	0.079545	8.868272	7.43E-19	1.82E-17
UBE2D4	103.1126	0.705486	0.18686	3.775473	0.00016	0.000814
CELSR1	705.6491	0.705621	0.098459	7.166626	7.69E-13	1.19E-11
C3orf72	61.00364	0.705873	0.218465	3.231055	0.001233	0.005109
ZNF14	51.73357	0.706112	0.234954	3.005322	0.002653	0.0101
SLC12A4	239.4836	0.706113	0.126831	5.567335	2.59E-08	2.51E-07
NUAK1	120.7465	0.706344	0.170956	4.131734	3.60E-05	0.00021
IQCB1	285.5863	0.707394	0.114528	6.176583	6.55E-10	7.56E-09
TJP1	976.7671	0.707772	0.093862	7.540553	4.68E-14	8.02E-13
JUND	288.5458	0.707819	0.11789	6.004043	1.92E-09	2.13E-08
ARHGAP29	492.1021	0.708227	0.094508	7.493823	6.69E-14	1.13E-12
RP9	91.15328	0.708819	0.185144	3.828478	0.000129	0.000672
LRRC8D	445.625	0.710029	0.098661	7.196688	6.17E-13	9.59E-12
ISL2	43.73157	0.710677	0.25924	2.741392	0.006118	0.020849
CITED2	143.0169	0.712248	0.154753	4.60248	4.17E-06	2.87E-05
DFNA5	286.8655	0.712296	0.121878	5.844313	5.09E-09	5.31E-08
CSTA	218.1456	0.713603	0.130001	5.489195	4.04E-08	3.80E-07
CYP51A1	694.0244	0.713664	0.088891	8.028487	9.87E-16	1.93E-14
CHN2	48.17598	0.713814	0.243865	2.927083	0.003422	0.01261
FOXD1	101.6834	0.714181	0.180213	3.962992	7.40E-05	0.000405
WARS	2512.487	0.714869	0.057243	12.48834	8.64E-36	4.27E-34

SEC14L2	177.3039	0.716224	0.143002	5.008475	5.49E-07	4.35E-06
TNFRSF21	2010.833	0.716405	0.067529	10.60878	2.71E-26	9.75E-25
TMEM179I	461.1636	0.717132	0.099323	7.220168	5.19E-13	8.13E-12
AGRN	3716.53	0.718198	0.059643	12.04153	2.15E-33	9.88E-32
KIAA0040	213.5651	0.71911	0.136631	5.263147	1.42E-07	1.23E-06
FAM63B	230.7037	0.719278	0.137051	5.24826	1.54E-07	1.33E-06
SPINT1	1299.652	0.720855	0.066931	10.77007	4.77E-27	1.77E-25
TMEM51	62.70272	0.720922	0.222957	3.233459	0.001223	0.005072
FAM114A1	91.02593	0.721497	0.18856	3.826349	0.00013	0.000677
DNAJC25	156.3926	0.722421	0.152423	4.739583	2.14E-06	1.54E-05
ANK2	30.61689	0.723187	0.294905	2.452275	0.014196	0.042387
LAMA4	216.0495	0.72439	0.129669	5.586433	2.32E-08	2.26E-07
C4orf42	62.99831	0.725271	0.219636	3.302143	0.000959	0.004066
EML1	45.01953	0.725402	0.247397	2.932139	0.003366	0.012422
FAM111B	362.8195	0.725502	0.10247	7.080148	1.44E-12	2.17E-11
CD44	2203.336	0.726129	0.064206	11.30937	1.18E-29	4.79E-28
CLIP2	271.468	0.726857	0.12201	5.957337	2.56E-09	2.80E-08
NPR1	27.20572	0.727017	0.301131	2.414293	0.015766	0.046275
DHTKD1	592.2479	0.727222	0.092433	7.867584	3.62E-15	6.77E-14
HERC2P2	42.48985	0.728134	0.26646	2.732615	0.006283	0.021294
MPZL3	30.13149	0.728859	0.294136	2.477967	0.013213	0.039934
ARMC9	81.41486	0.729219	0.212607	3.429893	0.000604	0.00268
SLC4A7	297.5107	0.729918	0.113601	6.425257	1.32E-10	1.63E-09
APC2	35.25085	0.7303	0.286886	2.54561	0.010909	0.033898
ALCAM	567.9866	0.731646	0.099897	7.324009	2.41E-13	3.89E-12
ULK4	52.82189	0.732455	0.238296	3.073718	0.002114	0.008245
FAM59B	80.37063	0.734578	0.21273	3.453096	0.000554	0.00248
TCEAL3	55.88282	0.736745	0.227812	3.234006	0.001221	0.005064
COL5A2	1327.956	0.737615	0.067781	10.8824	1.40E-27	5.28E-26
SAT1	3403.011	0.7379	0.069954	10.5484	5.17E-26	1.82E-24
MACF1	1239.81	0.738847	0.14784	4.997602	5.80E-07	4.58E-06
DOT1L	481.0972	0.739274	0.094894	7.790529	6.67E-15	1.22E-13
FGFR3	172.0862	0.739619	0.145451	5.085014	3.68E-07	2.99E-06
ZSWIM4	59.89643	0.74166	0.228112	3.251303	0.001149	0.004797
MOB3A	150.6339	0.742622	0.149268	4.97509	6.52E-07	5.12E-06
USP25	170.2938	0.743023	0.141129	5.264836	1.40E-07	1.22E-06
ADM2	285.3212	0.743402	0.130046	5.716469	1.09E-08	1.10E-07
SLC22A18	50.10217	0.74411	0.237562	3.132283	0.001735	0.006908
IRAK3	25.892	0.744293	0.302679	2.459013	0.013932	0.041736
CASD1	154.1544	0.744981	0.150781	4.94083	7.78E-07	6.00E-06
WDR74	747.3118	0.74524	0.087342	8.532473	1.43E-17	3.17E-16
PPP1R9B	886.5225	0.748037	0.075664	9.88635	4.77E-23	1.49E-21
ENPP4	108.566	0.748067	0.171686	4.357177	1.32E-05	8.30E-05
SH3KBP1	292.9343	0.748531	0.11431	6.548275	5.82E-11	7.49E-10
NOL9	227.912	0.749841	0.126532	5.92609	3.10E-09	3.35E-08
PLXND1	526.0256	0.750283	0.090968	8.24778	1.61E-16	3.31E-15
ERAP1	520.6419	0.750507	0.090179	8.322412	8.62E-17	1.80E-15

C11orf84	636.2301	0.751517	0.084644	8.878521	6.78E-19	1.66E-17
TBX1	191.5299	0.751626	0.144404	5.205005	1.94E-07	1.66E-06
SHOX2	27.77935	0.75247	0.301043	2.49954	0.012435	0.037864
FAM171A1	104.3841	0.753699	0.180644	4.17228	3.02E-05	0.000179
FAM129A	232.0418	0.754378	0.12905	5.84563	5.05E-09	5.28E-08
LINC00152	94.15927	0.756671	0.190448	3.973113	7.09E-05	0.00039
LOC54147	71.22493	0.757542	0.209672	3.612993	0.000303	0.001446
TOM1L2	653.7359	0.757705	0.094282	8.036582	9.24E-16	1.82E-14
ZNF554	69.02615	0.757841	0.209085	3.624556	0.000289	0.00139
NMT2	148.5602	0.758777	0.154271	4.918459	8.72E-07	6.68E-06
ELOVL7	66.50864	0.759467	0.212247	3.578223	0.000346	0.001627
LOC10052	48.15313	0.759726	0.242449	3.133555	0.001727	0.006884
SAMD12	151.4726	0.760163	0.15653	4.856346	1.20E-06	8.96E-06
DDAH1	491.6697	0.760328	0.091993	8.265086	1.40E-16	2.89E-15
IGF1R	531.7794	0.762092	0.098966	7.700579	1.35E-14	2.45E-13
WNK4	32.45143	0.762743	0.282456	2.700395	0.006926	0.023145
TRAF5	80.84091	0.765617	0.197457	3.87738	0.000106	0.000559
RIPK2	607.1009	0.766705	0.085481	8.969285	2.98E-19	7.48E-18
COCH	79.62264	0.766968	0.210666	3.640689	0.000272	0.001314
B3GALNT1	288.9235	0.767833	0.123575	6.213515	5.18E-10	6.05E-09
C9orf25	99.90014	0.768237	0.183575	4.184876	2.85E-05	0.00017
C2CD2L	197.3069	0.768302	0.139796	5.495886	3.89E-08	3.67E-07
SPTBN2	378.3647	0.768544	0.104712	7.339624	2.14E-13	3.48E-12
NAV1	72.1853	0.772176	0.207093	3.728633	0.000193	0.000965
PTPN21	86.18122	0.772867	0.197645	3.910371	9.22E-05	0.000493
BACE1	283.6547	0.77329	0.12379	6.24677	4.19E-10	4.94E-09
CCDC92	25.81756	0.773942	0.310458	2.492903	0.01267	0.038475
TIMP3	1428.444	0.774284	0.071831	10.77923	4.31E-27	1.61E-25
NTRK2	99.75532	0.774867	0.178131	4.349986	1.36E-05	8.55E-05
RFX2	57.43579	0.77583	0.243029	3.192332	0.001411	0.005757
C17orf48	27.53801	0.777596	0.299679	2.594764	0.009466	0.030059
IFIT5	278.1874	0.777677	0.118778	6.547319	5.86E-11	7.53E-10
ABCA5	118.3953	0.778422	0.180217	4.319351	1.56E-05	9.74E-05
GATAD1	520.9933	0.778629	0.090867	8.568899	1.04E-17	2.33E-16
C9orf84	38.60481	0.780918	0.270966	2.881973	0.003952	0.014312
CDC42EP1	916.6418	0.780977	0.074512	10.48127	1.05E-25	3.66E-24
HBEGF	399.2806	0.781148	0.104317	7.488209	6.98E-14	1.18E-12
SNPH	34.26412	0.781338	0.27685	2.82224	0.004769	0.016843
LIMCH1	962.5259	0.781613	0.071898	10.87111	1.58E-27	5.97E-26
TNFSF15	38.75491	0.7842	0.269337	2.911591	0.003596	0.013179
CTSL1	281.2747	0.784533	0.120048	6.535174	6.35E-11	8.15E-10
SULF2	355.3374	0.784764	0.114935	6.827908	8.62E-12	1.20E-10
SCRN1	1857.903	0.785156	0.065061	12.068	1.56E-33	7.19E-32
SYPL2	20.56566	0.785206	0.325023	2.415847	0.015699	0.046124
DDX58	42.81785	0.786054	0.25287	3.108526	0.00188	0.007416
ESPN	19.98075	0.786408	0.330148	2.381986	0.01722	0.049962
PLEC	5425.768	0.786469	0.068543	11.47406	1.78E-30	7.42E-29

OSBPL3	473.7227	0.786482	0.093141	8.444005	3.07E-17	6.63E-16
C19orf21	1442.508	0.786775	0.071646	10.98137	4.70E-28	1.81E-26
PTP4A1	1053.224	0.786945	0.070843	11.10827	1.14E-28	4.45E-27
DSEL	40.92181	0.787253	0.260872	3.017777	0.002546	0.009747
MIR614	29.97789	0.787598	0.288206	2.732758	0.006281	0.021294
SEMA3B	125.735	0.788544	0.161349	4.887197	1.02E-06	7.75E-06
TRAF3	408.7954	0.788677	0.103929	7.588626	3.23E-14	5.65E-13
LMX1B	99.70366	0.789903	0.18998	4.157818	3.21E-05	0.000189
LOC100501	19.74349	0.791743	0.330151	2.398121	0.016479	0.0481
VPS37C	235.5134	0.792044	0.123126	6.432769	1.25E-10	1.56E-09
SLC38A2	3826.874	0.792909	0.056737	13.97511	2.21E-44	1.36E-42
NXN	582.3478	0.794654	0.086153	9.223738	2.87E-20	7.71E-19
MMP17	80.08067	0.794869	0.204624	3.884533	0.000103	0.000544
B3GAT3	406.9037	0.796336	0.09837	8.095292	5.71E-16	1.14E-14
NRIP3	33.56529	0.797482	0.282206	2.825883	0.004715	0.016701
GJB4	28.74262	0.797834	0.294037	2.713379	0.00666	0.022379
LPIN2	97.15525	0.797866	0.185519	4.300721	1.70E-05	0.000105
TPM4	1388.264	0.7983	0.064355	12.40457	2.47E-35	1.20E-33
FGD1	66.83003	0.798756	0.213788	3.736213	0.000187	0.000939
DMPK	116.5607	0.799662	0.169122	4.72831	2.26E-06	1.62E-05
ULK2	127.2908	0.801252	0.162191	4.940181	7.80E-07	6.02E-06
LOC100501	27.04856	0.801493	0.302115	2.652943	0.007979	0.026043
LYPD1	20.21037	0.801715	0.327701	2.446481	0.014426	0.042987
ARHGAP32	61.92299	0.8018	0.227002	3.532126	0.000412	0.001908
TANC2	198.5488	0.802366	0.147051	5.45639	4.86E-08	4.51E-07
SH3TC2	35.63671	0.802857	0.27492	2.920328	0.003497	0.012835
JAZF1	57.42944	0.804836	0.225027	3.576624	0.000348	0.001636
HOMEZ	185.8546	0.805009	0.139741	5.760707	8.38E-09	8.57E-08
STMN3	253.3173	0.805131	0.123411	6.523959	6.85E-11	8.75E-10
PTGR1	294.6477	0.805245	0.125993	6.391194	1.65E-10	2.01E-09
GPX4	2726.796	0.805736	0.061021	13.20427	8.29E-40	4.60E-38
SLC4A11	123.4198	0.805968	0.163205	4.938365	7.88E-07	6.07E-06
ATP8B2	148.5409	0.80646	0.150849	5.346133	8.99E-08	8.04E-07
ACTN1	2066.188	0.806579	0.068279	11.81305	3.34E-32	1.49E-30
SNAPC1	303.7844	0.806676	0.123767	6.517686	7.14E-11	9.12E-10
SBNO2	1112.31	0.806897	0.071027	11.36036	6.59E-30	2.70E-28
ACTA2	40.97963	0.807465	0.264804	3.049295	0.002294	0.008879
TUT1	412.9972	0.80769	0.101361	7.968433	1.61E-15	3.07E-14
RIBC2	36.76818	0.808041	0.272128	2.969346	0.002984	0.011187
TIAM1	139.5631	0.808482	0.166955	4.842525	1.28E-06	9.53E-06
LRRC37B	29.03391	0.808491	0.293401	2.755586	0.005859	0.020082
TFAP2E	21.75961	0.810531	0.32934	2.461073	0.013852	0.04154
PREP	625.8224	0.810977	0.083459	9.717067	2.55E-22	7.60E-21
C2orf55	97.36501	0.812872	0.188541	4.311387	1.62E-05	0.000101
LTBP2	33.68708	0.812909	0.28511	2.851209	0.004355	0.015585
TRPV1	50.49264	0.813718	0.240806	3.379141	0.000727	0.003165
KIAA0513	36.3853	0.814455	0.270594	3.009872	0.002614	0.009962

KRT16	20.60642	0.815433	0.336948	2.420058	0.015518	0.045676
TIAM2	20.03512	0.816475	0.341247	2.39262	0.016729	0.048701
FMN1	26.898	0.81806	0.300237	2.724712	0.006436	0.021753
ANXA8L2	22.04833	0.819945	0.329627	2.487492	0.012865	0.039025
PLXNA2	198.7391	0.821903	0.136188	6.035073	1.59E-09	1.78E-08
MYBL1	95.64774	0.82289	0.181728	4.528144	5.95E-06	4.00E-05
ZBTB3	52.97695	0.823021	0.232627	3.537938	0.000403	0.001871
MYH14	325.1682	0.82308	0.116116	7.088404	1.36E-12	2.05E-11
TCTN1	153.2627	0.825083	0.148539	5.554658	2.78E-08	2.68E-07
TACC1	322.929	0.825714	0.112315	7.351764	1.96E-13	3.19E-12
TTLL11	19.0359	0.826222	0.334826	2.467618	0.013602	0.040846
PTK2B	175.4742	0.826931	0.1435	5.762586	8.28E-09	8.48E-08
GATA3	52.62763	0.828117	0.235074	3.52279	0.000427	0.001969
TXNIP	589.8566	0.828798	0.086197	9.615128	6.90E-22	2.01E-20
STX3	179.6559	0.830614	0.139408	5.95814	2.55E-09	2.78E-08
GPR126	1192.987	0.831636	0.080013	10.39371	2.65E-25	9.01E-24
TMEM158	18.33683	0.832473	0.342947	2.427407	0.015207	0.044941
IGF2BP1	121.7636	0.833588	0.167582	4.974207	6.55E-07	5.14E-06
FUT8	158.2366	0.833767	0.150867	5.526505	3.27E-08	3.11E-07
ARHGEF17	321.4291	0.834364	0.116613	7.154988	8.37E-13	1.28E-11
CAMK2B	28.59841	0.834883	0.303091	2.754561	0.005877	0.020136
CLIP4	185.4997	0.835403	0.139795	5.975905	2.29E-09	2.52E-08
SLC10A4	38.42456	0.835653	0.27794	3.006596	0.002642	0.01006
ABCA3	58.49481	0.837084	0.230203	3.636281	0.000277	0.001334
DDX60	32.86574	0.837201	0.279435	2.99605	0.002735	0.010366
SLC35E4	40.84602	0.837645	0.260623	3.21401	0.001309	0.00539
DOCK3	19.26211	0.838976	0.336047	2.496607	0.012539	0.038123
DYNC2H1	184.6015	0.839408	0.156944	5.34844	8.87E-08	7.96E-07
MAP3K1	176.7358	0.840877	0.145048	5.797216	6.74E-09	6.97E-08
PVT1	98.08991	0.841299	0.181243	4.641823	3.45E-06	2.40E-05
CES3	41.46242	0.842711	0.263757	3.195022	0.001398	0.005705
LYST	76.91252	0.843042	0.214877	3.923367	8.73E-05	0.000469
DNAH2	49.33787	0.843255	0.246796	3.416815	0.000634	0.002789
APOBEC3C	434.7949	0.843677	0.101821	8.285855	1.17E-16	2.44E-15
OTUB2	27.10232	0.844788	0.302022	2.797108	0.005156	0.017981
CXorf26	194.9215	0.84585	0.137521	6.150676	7.72E-10	8.87E-09
MCC	93.99512	0.846105	0.2023	4.18243	2.88E-05	0.000171
RIOK3	486.1519	0.847143	0.093659	9.045015	1.50E-19	3.80E-18
SOCS3	102.4573	0.848552	0.179562	4.725669	2.29E-06	1.64E-05
MAP3K8	35.10429	0.849559	0.27303	3.111597	0.001861	0.007347
MAP3K12	43.93462	0.851013	0.251408	3.384984	0.000712	0.003104
ELAVL2	42.33855	0.85175	0.255833	3.32932	0.000871	0.003728
C2orf81	22.35237	0.852631	0.318591	2.676253	0.007445	0.024594
NIPAL1	46.49996	0.852711	0.249349	3.419742	0.000627	0.002764
KIAA1407	23.33611	0.853352	0.318429	2.679883	0.007365	0.024384
ARHGEF10	27.54705	0.853783	0.300158	2.844445	0.004449	0.015865
MAN2B2	144.2324	0.853914	0.152463	5.6008	2.13E-08	2.10E-07

LGALS1	1543.648	0.854729	0.071231	11.99943	3.58E-33	1.63E-31
AP1M2	220.5901	0.855382	0.127803	6.692987	2.19E-11	2.94E-10
RIN3	110.8482	0.855489	0.172425	4.961511	6.99E-07	5.45E-06
KRIT1	553.8463	0.855969	0.093754	9.129984	6.85E-20	1.79E-18
SLC22A23	59.87502	0.855995	0.221799	3.859336	0.000114	0.000599
C17orf28	145.3771	0.856948	0.163781	5.232271	1.67E-07	1.44E-06
PLEKHO1	53.82819	0.857618	0.233519	3.672585	0.00024	0.001178
LOC146880	49.5549	0.85856	0.242012	3.5476	0.000389	0.001811
MMD	41.94582	0.859659	0.257815	3.334407	0.000855	0.003666
PITPNC1	62.78094	0.860158	0.220435	3.902089	9.54E-05	0.000509
TACC2	364.4321	0.860746	0.105321	8.172569	3.02E-16	6.14E-15
RAB27B	21.70243	0.862995	0.330949	2.607639	0.009117	0.029177
VAV2	683.993	0.864021	0.081212	10.63904	1.96E-26	7.08E-25
MAL2	3118.692	0.865519	0.057422	15.07285	2.44E-51	1.71E-49
TSPAN3	1608.428	0.86552	0.066988	12.92059	3.44E-38	1.84E-36
MYH3	31.33003	0.866232	0.288415	3.003424	0.00267	0.010144
METRNL	69.84214	0.869608	0.210582	4.129535	3.63E-05	0.000211
JAG2	595.334	0.869801	0.086623	10.04127	1.00E-23	3.23E-22
ABCC4	25.81132	0.873016	0.305777	2.855078	0.004303	0.015441
LOC100507	25.01085	0.873116	0.314369	2.777364	0.00548	0.018953
NPDC1	336.2465	0.873275	0.114464	7.629256	2.36E-14	4.18E-13
MRC2	55.48476	0.873358	0.231419	3.773921	0.000161	0.000818
VTN	2.028584	0.873613	0.360352	2.42433	0.015337	0.045242
ANKIB1	857.533	0.875619	0.084223	10.3964	2.57E-25	8.79E-24
F2RL1	394.178	0.877146	0.101416	8.648959	5.20E-18	1.19E-16
CXCL2	17.82421	0.880049	0.347443	2.53293	0.011311	0.034957
ZNF239	17.1075	0.880609	0.345032	2.552252	0.010703	0.033365
ADCY9	131.964	0.880795	0.166844	5.279145	1.30E-07	1.14E-06
MYO1B	936.1018	0.880884	0.075412	11.68096	1.59E-31	6.96E-30
ADORA2A	28.97387	0.881074	0.292409	3.013158	0.002585	0.009873
SLC48A1	230.2891	0.883284	0.127666	6.918697	4.56E-12	6.51E-11
FAM105A	167.7284	0.883586	0.143718	6.148044	7.84E-10	9.00E-09
PTHLH	41.49229	0.885353	0.258209	3.428821	0.000606	0.002687
EGFR	810.2888	0.88582	0.226457	3.911653	9.17E-05	0.000491
C14orf37	2.265203	0.886091	0.360695	2.45662	0.014025	0.041972
FLJ43315	15.52094	0.887374	0.365187	2.429918	0.015102	0.044685
ARL4C	46.1518	0.88762	0.25435	3.489754	0.000483	0.002194
C1orf226	51.69113	0.887918	0.240844	3.686693	0.000227	0.00112
SAV1	497.9393	0.888014	0.095845	9.265092	1.95E-20	5.27E-19
FAM216A	137.545	0.888533	0.158895	5.59194	2.25E-08	2.20E-07
DOCK5	376.4915	0.888811	0.115756	7.678337	1.61E-14	2.89E-13
MAP3K14	165.2512	0.889238	0.148039	6.006801	1.89E-09	2.10E-08
SH3RF2	56.61669	0.889706	0.23007	3.867105	0.00011	0.000582
COL18A1	232.484	0.895046	0.126704	7.064059	1.62E-12	2.43E-11
CLIP1	620.7323	0.896575	0.092305	9.713128	2.65E-22	7.88E-21
UBE2L6	383.0748	0.896953	0.102223	8.774463	1.72E-18	4.07E-17
MRAS	78.55156	0.898802	0.202804	4.431864	9.34E-06	6.08E-05

FIBCD1	27.5406	0.899581	0.311828	2.884864	0.003916	0.014196
COPZ2	16.60484	0.899904	0.355622	2.530505	0.01139	0.035162
GNAI1	656.576	0.900103	0.085169	10.56845	4.17E-26	1.49E-24
RGNEF	49.41775	0.900184	0.242845	3.706818	0.00021	0.001044
CTH	287.877	0.900259	0.120578	7.466169	8.26E-14	1.38E-12
SPIRE1	155.9696	0.90117	0.152704	5.901418	3.60E-09	3.87E-08
PMAIP1	71.32219	0.901649	0.213059	4.231913	2.32E-05	0.00014
KRT8	11583.47	0.902623	0.052184	17.29692	4.96E-67	4.73E-65
HOXA3	107.1491	0.903688	0.180527	5.005834	5.56E-07	4.41E-06
KCNK2	43.70089	0.903693	0.263813	3.425504	0.000614	0.002711
SLC13A4	2.075994	0.90419	0.363688	2.48617	0.012913	0.039154
DOCK11	19.2002	0.906491	0.34114	2.65724	0.007878	0.025776
ACSS2	478.3272	0.90761	0.095556	9.498235	2.13E-21	6.06E-20
LIPE	25.03843	0.907865	0.308627	2.941622	0.003265	0.012106
USP11	464.9857	0.908315	0.09617	9.444899	3.56E-21	9.99E-20
MGAT4A	68.46981	0.91092	0.215391	4.229137	2.35E-05	0.000142
CARD14	17.35092	0.911859	0.34389	2.6516	0.008011	0.026117
SYDE1	96.9369	0.912033	0.185892	4.906263	9.28E-07	7.08E-06
SHC4	2.126589	0.91277	0.36453	2.503967	0.012281	0.037456
SYCP2	20.91785	0.912942	0.334047	2.732973	0.006277	0.021291
FGD6	107.7388	0.91309	0.192198	4.750765	2.03E-06	1.46E-05
SELENBP1	56.17628	0.913236	0.23633	3.864237	0.000111	0.000588
FAM20C	247.1273	0.914325	0.130232	7.020721	2.21E-12	3.27E-11
FAM211B	13.80434	0.914707	0.374347	2.443473	0.014547	0.043279
SAMHD1	201.2654	0.916516	0.138411	6.621684	3.55E-11	4.68E-10
SH2D5	2.185268	0.916543	0.364742	2.51285	0.011976	0.036648
SLC24A6	70.63716	0.917692	0.214507	4.278145	1.88E-05	0.000116
GSDMB	42.04437	0.917928	0.26042	3.5248	0.000424	0.001956
MITF	35.72522	0.918076	0.272012	3.375132	0.000738	0.003204
IQGAP2	21.67579	0.920731	0.327761	2.809155	0.004967	0.017417
VSIG10L	15.78929	0.920994	0.354123	2.600773	0.009301	0.029638
B4GALT5	1112.16	0.921451	0.074789	12.32069	7.01E-35	3.35E-33
UNC5B	187.4424	0.921589	0.143562	6.419465	1.37E-10	1.69E-09
MYO5A	299.0433	0.921678	0.115343	7.990739	1.34E-15	2.59E-14
SIPA1L1	240.6355	0.922121	0.12471	7.394103	1.42E-13	2.35E-12
NINJ1	142.6332	0.922424	0.158335	5.825765	5.69E-09	5.90E-08
CTDSP1	440.9298	0.922962	0.098884	9.333745	1.02E-20	2.80E-19
LINC00341	2.874322	0.923284	0.381445	2.420493	0.015499	0.04563
CXCL1	46.51409	0.924728	0.245811	3.761955	0.000169	0.000854
IRF5	22.26363	0.926702	0.325483	2.847163	0.004411	0.015754
LARP6	166.2105	0.92727	0.148915	6.226852	4.76E-10	5.58E-09
PRSS23	2015.248	0.927454	0.06215	14.92276	2.34E-50	1.61E-48
CCL26	2.198024	0.928092	0.365792	2.537216	0.011174	0.034597
EPHA1	96.84292	0.928116	0.181657	5.109174	3.24E-07	2.66E-06
NR3C1	903.9187	0.928672	0.080021	11.60536	3.87E-31	1.66E-29
MSRB3	53.87715	0.929081	0.237659	3.909308	9.26E-05	0.000495
KRT86	15.28881	0.929667	0.363808	2.555377	0.010607	0.033109

WNK2	111.5868	0.929703	0.180003	5.164928	2.41E-07	2.02E-06
VCL	1751.032	0.930051	0.080445	11.56126	6.47E-31	2.74E-29
SPTLC3	10.65157	0.932482	0.38449	2.425242	0.015298	0.045146
MBLAC1	37.68391	0.933164	0.290783	3.209137	0.001331	0.005469
ANKRD34B	10.11071	0.937514	0.387681	2.418259	0.015595	0.045875
APOLD1	12.44768	0.937793	0.379557	2.470758	0.013483	0.040557
ARID5B	93.75093	0.938313	0.187558	5.002779	5.65E-07	4.47E-06
PRDM8	240.5342	0.938476	0.12401	7.567753	3.80E-14	6.57E-13
LRRC23	29.68221	0.938604	0.293522	3.197734	0.001385	0.005662
ELL2	178.951	0.93952	0.142274	6.603611	4.01E-11	5.25E-10
HERC6	96.83228	0.939665	0.184656	5.088721	3.60E-07	2.94E-06
PCSK6	385.2573	0.939678	0.106217	8.846758	9.01E-19	2.19E-17
CCDC132	325.7387	0.939885	0.109448	8.587531	8.89E-18	2.00E-16
RIPK4	540.4845	0.941135	0.094096	10.00181	1.50E-23	4.75E-22
ZNF608	15.63937	0.941232	0.361349	2.604772	0.009194	0.029378
DTX4	308.7783	0.942425	0.110951	8.494099	1.99E-17	4.37E-16
PCSK1N	50.76304	0.942785	0.246988	3.817127	0.000135	0.000701
RGS2	147.784	0.942934	0.157274	5.995496	2.03E-09	2.25E-08
SLITRK3	2.431873	0.943773	0.366526	2.574916	0.010026	0.031585
S100A11	1213.102	0.944104	0.06781	13.92285	4.60E-44	2.79E-42
HYDIN	2.399348	0.944886	0.366555	2.577749	0.009945	0.031361
PPM1K	33.46619	0.944897	0.284814	3.317594	0.000908	0.00387
FAM92A1	77.10789	0.945614	0.207619	4.55456	5.25E-06	3.56E-05
ISG20	52.23342	0.949392	0.237532	3.996906	6.42E-05	0.000354
TTLL7	14.59186	0.952123	0.360709	2.63959	0.008301	0.026923
FSTL4	219.9597	0.95284	0.141965	6.711814	1.92E-11	2.60E-10
STARD13	40.67178	0.953426	0.263842	3.613626	0.000302	0.001443
C20orf118	20.46645	0.9555	0.330546	2.890669	0.003844	0.013957
PLXNA1	3328.065	0.95594	0.078913	12.11383	8.92E-34	4.14E-32
RASA4	48.2598	0.956859	0.252621	3.787728	0.000152	0.00078
LRRC61	52.12008	0.95751	0.239452	3.998757	6.37E-05	0.000352
CHAC1	277.5582	0.957708	0.121879	7.857858	3.91E-15	7.30E-14
RNF207	136.4294	0.958606	0.158972	6.030029	1.64E-09	1.84E-08
KLF15	86.40524	0.959271	0.198215	4.839541	1.30E-06	9.65E-06
KIAA0889	364.5518	0.959651	0.244451	3.925745	8.65E-05	0.000466
ATP6V0E2	81.60785	0.959893	0.201469	4.764477	1.89E-06	1.37E-05
STARD8	11.87363	0.959936	0.381002	2.519503	0.011752	0.03606
ZNF502	12.93222	0.960798	0.369595	2.599599	0.009333	0.029721
HOXB9	156.4844	0.961101	0.148994	6.450615	1.11E-10	1.40E-09
MATN3	12.90838	0.961173	0.375296	2.56111	0.010434	0.03263
LMO7	1326.056	0.961385	0.069713	13.79066	2.90E-43	1.72E-41
MBNL2	239.6954	0.963014	0.133672	7.204287	5.83E-13	9.11E-12
TRIM16	85.5569	0.963951	0.194777	4.948999	7.46E-07	5.78E-06
PDE5A	85.99231	0.964274	0.194045	4.969334	6.72E-07	5.26E-06
LOC100288	38.28967	0.966532	0.265515	3.640218	0.000272	0.001316
TCHH	2.746335	0.967044	0.386804	2.500092	0.012416	0.037821
CHN1	23.24501	0.967956	0.317443	3.049233	0.002294	0.008879



CASP4	358.6608	0.969334	0.106889	9.068608	1.21E-19	3.10E-18
RNF182	2.346625	0.970168	0.369769	2.623716	0.008698	0.028044
PSG7	2.301343	0.970646	0.369981	2.623503	0.008703	0.028055
DTX3	31.70005	0.97157	0.288571	3.366837	0.00076	0.003293
IGSF9	12.47765	0.97229	0.376353	2.583452	0.009782	0.030941
CALD1	39.91589	0.973514	0.266559	3.652147	0.00026	0.001265
PPP1R9A	293.2426	0.973668	0.124498	7.820784	5.25E-15	9.67E-14
HPSE	71.76366	0.974576	0.209361	4.654994	3.24E-06	2.27E-05
EFNB2	90.41514	0.975046	0.195222	4.994556	5.90E-07	4.65E-06
GPR143	3.540208	0.975845	0.397499	2.454961	0.01409	0.042117
MGC12982	20.10372	0.975893	0.330636	2.951561	0.003162	0.011767
LOC100131	2.323241	0.977042	0.370857	2.634554	0.008425	0.027248
MAP7D3	234.1475	0.979769	0.127804	7.666183	1.77E-14	3.17E-13
PEX1	475.5787	0.980555	0.101812	9.63102	5.91E-22	1.73E-20
KCNJ14	34.58601	0.98181	0.285447	3.439554	0.000583	0.002592
GAS6	52.91708	0.982078	0.242357	4.052188	5.07E-05	0.000287
RPS6KA6	52.74726	0.982209	0.243201	4.038669	5.38E-05	0.000302
ZNF839	167.0955	0.982896	0.146979	6.687324	2.27E-11	3.04E-10
CLIC5	3.380338	0.983103	0.399017	2.463812	0.013747	0.041249
CRIP2	28.9963	0.984055	0.294108	3.345903	0.00082	0.003526
LXN	143.8353	0.987816	0.157142	6.28614	3.25E-10	3.87E-09
CT62	6.260535	0.989995	0.409111	2.419866	0.015526	0.045691
PON3	234.3738	0.991564	0.134624	7.365413	1.77E-13	2.89E-12
FAM134B	38.6311	0.992092	0.280711	3.534214	0.000409	0.001895
LOC100506	6.681303	0.992794	0.406618	2.441592	0.014623	0.04345
AOC2	24.09905	0.992956	0.312411	3.178364	0.001481	0.006003
CNN2	2077.412	0.99463	0.066995	14.84634	7.35E-50	4.99E-48
TMEM54	122.8078	0.995648	0.170742	5.83129	5.50E-09	5.72E-08
TRIM36	6.643021	0.997404	0.406917	2.45112	0.014241	0.042506
SRRT	1969.256	0.998232	0.059269	16.84249	1.19E-63	1.05E-61
GALNT12	149.5093	0.999511	0.159882	6.251558	4.06E-10	4.80E-09
RARRES3	5.06631	1.001278	0.409537	2.444901	0.014489	0.043135
TMEM231	31.01331	1.001325	0.292383	3.424706	0.000615	0.002718
CSRNP1	43.47749	1.001376	0.253112	3.956261	7.61E-05	0.000416
BVES	15.44672	1.00308	0.354998	2.825596	0.004719	0.016708
KRT16P2	2.559859	1.003475	0.372573	2.693362	0.007074	0.023553
SDK1	16.7243	1.004436	0.353473	2.84162	0.004489	0.015976
CERS4	49.28148	1.004578	0.247246	4.063062	4.84E-05	0.000275
EVC	65.48098	1.00467	0.224712	4.470929	7.79E-06	5.12E-05
SGK494	25.02326	1.00482	0.313109	3.209167	0.001331	0.005469
RDX	306.8482	1.005427	0.113782	8.836416	9.88E-19	2.40E-17
AHNAK	3291.067	1.005473	0.176739	5.68901	1.28E-08	1.28E-07
IDAS	26.72348	1.005915	0.309958	3.245328	0.001173	0.004886
PRSS54	9.559173	1.006015	0.391958	2.56664	0.010269	0.032169
NCOA7	1208.311	1.007232	0.067468	14.92908	2.13E-50	1.47E-48
ACOT7	531.4921	1.007809	0.094502	10.66444	1.49E-26	5.43E-25
ANXA1	3488.376	1.008392	0.057436	17.55666	5.29E-69	5.28E-67

PHLDA2	192.8276	1.008798	0.13927	7.243484	4.37E-13	6.93E-12
UBASH3B	183.3048	1.010454	0.14469	6.983567	2.88E-12	4.19E-11
SRCIN1	34.84854	1.011556	0.275058	3.677605	0.000235	0.001159
PSD3	102.3194	1.012174	0.184549	5.48458	4.14E-08	3.89E-07
SPRY4	333.8612	1.014656	0.120155	8.444534	3.05E-17	6.61E-16
DUSP10	12.94751	1.015053	0.372254	2.726772	0.006396	0.02163
TLE1	36.69121	1.016559	0.270765	3.754391	0.000174	0.000877
ADAMTS14	35.44639	1.016853	0.274499	3.704397	0.000212	0.001053
EMID2	49.73857	1.016919	0.241218	4.215763	2.49E-05	0.00015
KRT14	3.497055	1.017727	0.400313	2.542327	0.011012	0.034175
AHR	1552.358	1.017982	0.074739	13.62056	3.02E-42	1.76E-40
ULBP1	10.65961	1.018553	0.38601	2.638672	0.008323	0.026984
C1S	18.41664	1.019865	0.3419	2.982936	0.002855	0.01076
PLEKHA4	4.555838	1.020875	0.408673	2.498021	0.012489	0.037995
KNDC1	4.131243	1.021285	0.403969	2.528124	0.011467	0.035372
SOX18	8.487819	1.0219	0.398696	2.563109	0.010374	0.032457
SPEF2	64.6412	1.02191	0.227506	4.491801	7.06E-06	4.68E-05
MFI2	347.7508	1.022015	0.113999	8.965119	3.10E-19	7.74E-18
PITX1	467.1506	1.022874	0.104247	9.812064	9.99E-23	3.06E-21
SMARCD3	46.67254	1.023154	0.247217	4.138686	3.49E-05	0.000204
PYGM	6.374925	1.024383	0.408343	2.508631	0.01212	0.037019
NBPF15	2.450585	1.025247	0.375183	2.732657	0.006283	0.021294
ACTL8	5.707954	1.026939	0.409659	2.506814	0.012182	0.037186
LOXL2	420.2496	1.028057	0.098967	10.38792	2.81E-25	9.55E-24
SZT2	617.1725	1.028638	0.092025	11.17778	5.24E-29	2.07E-27
CNGA1	3.537023	1.029087	0.400841	2.567316	0.010249	0.032127
ICA1L	10.43724	1.029929	0.390117	2.640052	0.008289	0.026893
MRPL42P5	6.406993	1.029972	0.409271	2.5166	0.011849	0.036321
MAPK10	12.35516	1.030315	0.374228	2.753176	0.005902	0.020212
ADCY1	75.76508	1.030513	0.212123	4.858085	1.19E-06	8.89E-06
PPP1R14C	21.92103	1.032129	0.337276	3.060187	0.002212	0.008595
BACH2	7.428394	1.03613	0.403453	2.568153	0.010224	0.032063
DLL4	10.82524	1.037834	0.383971	2.702898	0.006874	0.022992
ISLR	2.990397	1.038127	0.390881	2.655866	0.007911	0.025852
ALOX12B	17.54707	1.038917	0.344011	3.020015	0.002528	0.009683
LTBP1	131.033	1.039404	0.167067	6.22149	4.92E-10	5.76E-09
FUT1	109.8647	1.039751	0.175285	5.931786	3.00E-09	3.24E-08
AMIGO2	129.6543	1.040155	0.161695	6.432815	1.25E-10	1.56E-09
DHRS3	913.4848	1.041114	0.081299	12.80606	1.52E-37	7.94E-36
JAG1	380.2899	1.041683	0.1072	9.717225	2.55E-22	7.60E-21
LOC100506	27.1491	1.042056	0.302813	3.441247	0.000579	0.002579
ALOXE3	3.640341	1.043989	0.400898	2.604124	0.009211	0.029414
MED12L	82.18773	1.044118	0.198652	5.25603	1.47E-07	1.28E-06
RBM48	136.7868	1.045124	0.161941	6.453747	1.09E-10	1.37E-09
SYTL3	5.318871	1.048277	0.409733	2.558438	0.010514	0.032854
TLE4	85.81926	1.048556	0.194659	5.386644	7.18E-08	6.53E-07
LDOC1	234.5019	1.048787	0.133568	7.852102	4.09E-15	7.60E-14

PRSS1	4.36192	1.049008	0.405628	2.586133	0.009706	0.030727
FADS3	256.8376	1.049347	0.123246	8.514277	1.68E-17	3.70E-16
ARRDC4	61.81576	1.050665	0.224333	4.683511	2.82E-06	1.99E-05
AMN	9.210242	1.050804	0.395994	2.653585	0.007964	0.025999
CCDC40	31.32834	1.051757	0.290393	3.621844	0.000293	0.001403
NFATC4	3.030364	1.052249	0.391839	2.685409	0.007244	0.02405
RPLPOP2	4.836238	1.05252	0.407953	2.580006	0.00988	0.031177
MX1	22.08494	1.0526	0.327644	3.212633	0.001315	0.005412
AFAP1L1	89.2565	1.05428	0.190462	5.535395	3.11E-08	2.98E-07
RPL23AP64	6.140384	1.055208	0.409828	2.574762	0.010031	0.031592
VEGFC	94.67032	1.055775	0.186986	5.646282	1.64E-08	1.63E-07
LCAT	21.08185	1.056443	0.333517	3.167581	0.001537	0.006206
C22orf29	427.9113	1.057049	0.10136	10.42864	1.83E-25	6.30E-24
FHDC1	12.73294	1.057711	0.375446	2.81721	0.004844	0.017064
C7orf31	324.5887	1.060126	0.112102	9.456779	3.18E-21	8.94E-20
IRX4	35.23305	1.060713	0.280694	3.778896	0.000158	0.000804
KIF5C	4.717836	1.061821	0.409129	2.595323	0.00945	0.030021
SPATA7	33.70551	1.062026	0.280288	3.789051	0.000151	0.000776
LINGO2	3.72836	1.062026	0.40157	2.644687	0.008177	0.02658
TXK	7.412217	1.063189	0.407229	2.610791	0.009033	0.028948
LOC72864:	54.24263	1.063532	0.237895	4.470593	7.80E-06	5.13E-05
SEMA6B	714.1565	1.064444	0.085514	12.4476	1.44E-35	7.09E-34
CRIM1	1417.49	1.065172	0.076048	14.00653	1.42E-44	8.80E-43
GNG4	62.74803	1.066378	0.221692	4.810181	1.51E-06	1.11E-05
ASRGL1	198.1177	1.068129	0.153524	6.957405	3.47E-12	5.00E-11
PRRG4	43.90468	1.069447	0.261013	4.097298	4.18E-05	0.000241
CASZ1	69.62653	1.069699	0.223683	4.782199	1.73E-06	1.26E-05
C5AR1	2.57793	1.069933	0.378841	2.824227	0.004739	0.016759
EYA2	3.709648	1.071112	0.402197	2.663153	0.007741	0.025401
STX11	8.354925	1.072069	0.40028	2.678296	0.0074	0.024467
BCL2	30.92776	1.072189	0.295041	3.634034	0.000279	0.001344
GABRE	117.8356	1.07244	0.173477	6.182036	6.33E-10	7.32E-09
CACHD1	127.5742	1.072783	0.172012	6.236682	4.47E-10	5.25E-09
CXCL16	149.8574	1.073145	0.152595	7.032635	2.03E-12	3.01E-11
NMNAT1	39.47483	1.073504	0.264972	4.051382	5.09E-05	0.000288
KLHL13	128.9591	1.074266	0.161973	6.632357	3.30E-11	4.36E-10
LOC10028:	3.708148	1.075146	0.400925	2.681663	0.007326	0.024277
IL15	38.26209	1.077056	0.267074	4.032794	5.51E-05	0.000309
VWA5B2	13.48112	1.07812	0.370476	2.910096	0.003613	0.013229
FAM189A2	10.53394	1.078343	0.38683	2.787639	0.005309	0.018428
GABRB3	6.034937	1.079166	0.409389	2.636037	0.008388	0.027147
EPB41L4A	206.1414	1.080457	0.135494	7.974232	1.53E-15	2.95E-14
BMP4	171.3158	1.082083	0.150388	7.195275	6.23E-13	9.68E-12
ZYX	518.9018	1.084102	0.099204	10.92805	8.47E-28	3.22E-26
IFT57	270.6422	1.085338	0.124925	8.687889	3.69E-18	8.57E-17
FERMT2	607.3339	1.085451	0.08856	12.25665	1.55E-34	7.34E-33
GLT25D2	4.331523	1.08547	0.406793	2.668358	0.007622	0.025089

CYP2S1	69.45024	1.08573	0.211372	5.136585	2.80E-07	2.33E-06
RILPL2	147.2828	1.086126	0.158341	6.859401	6.92E-12	9.72E-11
MDK	916.3294	1.086987	0.076864	14.14179	2.10E-45	1.32E-43
RPE65	5.575702	1.087194	0.409829	2.652797	0.007983	0.026048
SLC6A14	121.4742	1.089283	0.169787	6.415598	1.40E-10	1.73E-09
C11orf45	16.27478	1.090329	0.352131	3.096371	0.001959	0.007691
LOC100289	19.92037	1.090402	0.335187	3.25312	0.001141	0.004773
TTC7B	108.5958	1.090823	0.188703	5.780651	7.44E-09	7.64E-08
DLK2	164.9781	1.092099	0.146944	7.432054	1.07E-13	1.78E-12
ATP2A3	34.0856	1.092452	0.279245	3.912166	9.15E-05	0.00049
KCNF1	4.454611	1.094369	0.406969	2.689076	0.007165	0.023825
RBMS3	15.14751	1.095085	0.368613	2.970828	0.00297	0.011144
ARHGAP44	43.27916	1.099062	0.260345	4.221557	2.43E-05	0.000146
RNF157	32.16659	1.100404	0.29036	3.789788	0.000151	0.000774
HERC2P3	15.37354	1.10108	0.357731	3.07796	0.002084	0.008146
SDSL	95.09731	1.101667	0.189409	5.816351	6.01E-09	6.24E-08
PTPN13	961.4339	1.10611	0.089167	12.40487	2.46E-35	1.20E-33
GABRG1	2.803921	1.106225	0.381193	2.902006	0.003708	0.013532
SLC6A9	202.0705	1.107067	0.136927	8.085062	6.21E-16	1.23E-14
ST3GAL5	36.06361	1.107492	0.292988	3.779992	0.000157	0.000801
SHISA3	67.28012	1.108383	0.224034	4.947385	7.52E-07	5.82E-06
SLC1A3	1323.168	1.108423	0.071155	15.57763	1.03E-54	7.77E-53
LOC100501	22.61985	1.109331	0.325818	3.404761	0.000662	0.002903
KRT7	17620.5	1.109642	0.063392	17.50434	1.33E-68	1.29E-66
GDF15	919.6517	1.109997	0.084535	13.13064	2.20E-39	1.22E-37
KRT18	7323.794	1.110103	0.059984	18.50664	1.83E-76	2.07E-74
SDR16C5	230.5851	1.110501	0.12959	8.569357	1.04E-17	2.33E-16
BET1	398.7898	1.113433	0.11812	9.426289	4.25E-21	1.18E-19
WBSCR28	5.06373	1.114978	0.40941	2.723375	0.006462	0.021818
PLEKHH2	19.02507	1.115572	0.339502	3.28591	0.001017	0.004291
C1orf126	4.967211	1.117636	0.409482	2.729386	0.006345	0.021479
SAMD12-A	2.89597	1.11862	0.381629	2.931174	0.003377	0.012454
CHST15	173.3726	1.118927	0.14826	7.547046	4.45E-14	7.64E-13
NPAS1	16.24372	1.120816	0.355193	3.15551	0.001602	0.006446
TUFT1	172.5032	1.123748	0.146577	7.666607	1.77E-14	3.16E-13
KIAA1462	9.718577	1.124272	0.392491	2.864454	0.004177	0.015043
NR2E3	7.970297	1.127579	0.401378	2.809265	0.004965	0.017415
ROBO1	91.19993	1.131636	0.199979	5.658772	1.52E-08	1.52E-07
TGFB111	93.33368	1.132338	0.190785	5.935154	2.94E-09	3.18E-08
PLLP	82.93306	1.135839	0.203298	5.587061	2.31E-08	2.26E-07
LOC645638	4.009619	1.136007	0.403839	2.813023	0.004908	0.017271
CCDC19	8.595358	1.137783	0.3981	2.858029	0.004263	0.015314
RTKN2	52.13683	1.138451	0.240546	4.732784	2.21E-06	1.59E-05
MYOF	5298.24	1.138654	0.06492	17.53942	7.17E-69	7.10E-67
SOBP	14.47163	1.139839	0.364097	3.130596	0.001745	0.006942
FJX1	97.57637	1.140359	0.194634	5.859003	4.66E-09	4.90E-08
RHOV	417.1553	1.141949	0.10415	10.96451	5.66E-28	2.16E-26

ARID5A	54.98065	1.142251	0.23327	4.896683	9.75E-07	7.42E-06
MT1X	78.43279	1.142852	0.201497	5.671817	1.41E-08	1.41E-07
PTX3	4.019388	1.143017	0.403161	2.835137	0.004581	0.016276
ANPEP	3.988363	1.143712	0.404279	2.829018	0.004669	0.016565
ANKRD2	2.992488	1.147249	0.383935	2.988132	0.002807	0.010597
ENO2	118.8837	1.148144	0.169023	6.792839	1.10E-11	1.52E-10
ALPP	32.71933	1.148401	0.284966	4.029957	5.58E-05	0.000312
MAGEC2	3.377744	1.149087	0.396411	2.898727	0.003747	0.013667
CCNO	43.45431	1.151418	0.257741	4.467344	7.92E-06	5.20E-05
PRODH	17.60524	1.1522	0.346029	3.329785	0.000869	0.003723
FGF19	13.49659	1.155773	0.37255	3.102329	0.00192	0.007552
C19orf55	47.19005	1.15614	0.253362	4.563189	5.04E-06	3.42E-05
NPTX1	34.29581	1.158796	0.282498	4.101969	4.10E-05	0.000236
EPHA7	4.724826	1.159062	0.40783	2.84202	0.004483	0.015959
FAM181B	34.53615	1.160233	0.307725	3.770362	0.000163	0.000828
SLC9B2	34.29069	1.160542	0.280932	4.131048	3.61E-05	0.00021
TNFRSF9	4.051715	1.161481	0.404638	2.870419	0.004099	0.014799
KCNJ2	104.363	1.162357	0.182953	6.353295	2.11E-10	2.55E-09
LIPH	67.34496	1.163402	0.225623	5.156404	2.52E-07	2.11E-06
NPTXR	221.3923	1.165366	0.130416	8.935743	4.04E-19	1.00E-17
PPM1E	29.02204	1.167511	0.299024	3.904413	9.45E-05	0.000505
PTPRF	2473.027	1.169592	0.078786	14.84527	7.47E-50	5.04E-48
GPRC5A	1425.783	1.173517	0.071961	16.30776	8.69E-60	7.12E-58
VCAN	7.692617	1.173835	0.4037	2.907693	0.003641	0.013318
TNFRSF12A	563.552	1.175209	0.088473	13.28319	2.90E-40	1.63E-38
ZNF365	14.65956	1.178272	0.368432	3.198074	0.001383	0.005657
CKB	1138.453	1.178611	0.070505	16.7167	9.91E-63	8.44E-61
NALCN	83.53553	1.18148	0.203819	5.796704	6.76E-09	6.99E-08
ELOVL4	37.81743	1.183812	0.285942	4.140047	3.47E-05	0.000203
TNFAIP2	1437.239	1.185191	0.066622	17.78964	8.50E-71	8.72E-69
PCNXL2	101.7118	1.18585	0.185249	6.401376	1.54E-10	1.88E-09
IFIT3	88.28092	1.186389	0.194262	6.107168	1.01E-09	1.15E-08
PLK3	97.92239	1.192273	0.187366	6.363347	1.97E-10	2.39E-09
PDE4B	413.2987	1.19332	0.100972	11.81838	3.14E-32	1.41E-30
SH3BGR2	105.591	1.194849	0.19851	6.019096	1.75E-09	1.95E-08
IGFBP1	5.950921	1.196677	0.409551	2.921925	0.003479	0.012785
KCNJ12	42.42538	1.198506	0.271769	4.410012	1.03E-05	6.67E-05
GPR39	22.37883	1.198565	0.338018	3.545868	0.000391	0.00182
NFKB2	542.9675	1.199681	0.096018	12.49429	8.02E-36	3.97E-34
PMP22	115.6821	1.199871	0.172915	6.939088	3.95E-12	5.67E-11
SLCO2A1	5.775932	1.201151	0.409624	2.932325	0.003364	0.012418
CNPY4	230.1628	1.201481	0.128525	9.348244	8.91E-21	2.45E-19
RDH10	1100.816	1.20235	0.075184	15.99204	1.45E-57	1.14E-55
TGM1	11.3977	1.202382	0.384553	3.1267	0.001768	0.007021
LOC28475	18.28826	1.202793	0.358195	3.357929	0.000785	0.003384
ELAC1	34.42396	1.203555	0.286883	4.195276	2.73E-05	0.000163
PAPPA	3.114519	1.204233	0.387872	3.104721	0.001905	0.007504

KRT9	3.217838	1.204241	0.387441	3.10819	0.001882	0.007422
CTNNAL1	911.0073	1.208491	0.082517	14.64532	1.44E-48	9.53E-47
LOC10030:	10.84194	1.209843	0.386874	3.127227	0.001765	0.007015
LOC21973:	12.15224	1.210604	0.379496	3.190033	0.001423	0.005801
DAPK2	6.69057	1.211088	0.408351	2.965798	0.003019	0.011302
HSPB3	3.140032	1.213661	0.388164	3.126675	0.001768	0.007021
HLX	12.70417	1.214079	0.376965	3.220665	0.001279	0.005278
FLNA	6427.132	1.215409	0.071893	16.90572	4.08E-64	3.68E-62
HES4	133.669	1.215496	0.173584	7.002334	2.52E-12	3.70E-11
GPR161	37.59222	1.215602	0.271649	4.474901	7.64E-06	5.04E-05
KIAA1274	119.0862	1.216435	0.172366	7.057269	1.70E-12	2.54E-11
PRLR	3.624991	1.216464	0.399416	3.045605	0.002322	0.008977
LEF1	21.87946	1.218261	0.335178	3.634672	0.000278	0.001342
DST	481.1018	1.223739	0.109007	11.22619	3.03E-29	1.22E-27
LAMC2	784.2465	1.224571	0.079466	15.40995	1.40E-53	1.04E-51
CKLF	64.48508	1.227533	0.231103	5.311636	1.09E-07	9.60E-07
TNS3	1236.613	1.229104	0.077679	15.82289	2.16E-56	1.67E-54
FAM133A	11.70448	1.229134	0.382829	3.210662	0.001324	0.005444
ARG2	336.3742	1.229718	0.109707	11.20911	3.68E-29	1.47E-27
C2orf54	52.33035	1.23003	0.242943	5.063037	4.13E-07	3.33E-06
EGR1	178.8172	1.23074	0.165646	7.429959	1.09E-13	1.80E-12
SLC2A6	28.08651	1.231751	0.302901	4.066517	4.77E-05	0.000271
FZD10	9.347112	1.231761	0.396752	3.104615	0.001905	0.007504
CMTM1	14.74454	1.233175	0.367503	3.355556	0.000792	0.003412
C19orf26	44.21641	1.234127	0.256262	4.815882	1.47E-06	1.08E-05
GLI2	19.0252	1.23465	0.34141	3.616331	0.000299	0.001429
WNT5A	25.50888	1.234674	0.314548	3.92523	8.66E-05	0.000466
TMEM59L	7.644755	1.235384	0.405724	3.044887	0.002328	0.008994
GFOD1	29.77677	1.236836	0.299041	4.13601	3.53E-05	0.000206
SYT12	222.9959	1.238712	0.131404	9.42675	4.23E-21	1.18E-19
PTCD1	5.101962	1.238983	0.40885	3.030409	0.002442	0.009392
RASAL2	197.1559	1.239114	0.140941	8.791729	1.47E-18	3.53E-17
RRAGD	161.2312	1.240067	0.152859	8.112505	4.96E-16	9.91E-15
SYT7	13.65091	1.240834	0.369412	3.358944	0.000782	0.003374
S100A9	20.36697	1.241787	0.334532	3.712018	0.000206	0.001026
ADRB2	119.2829	1.242858	0.170668	7.282336	3.28E-13	5.24E-12
EHD2	1164.214	1.243536	0.070666	17.59749	2.57E-69	2.60E-67
CDH12	7.708933	1.249517	0.406862	3.07111	0.002133	0.008308
LOC40004:	7.595845	1.250123	0.405456	3.083249	0.002048	0.008015
GABARAPL	293.2112	1.251841	0.117606	10.6444	1.85E-26	6.70E-25
LINC00284	3.231236	1.252528	0.390839	3.20472	0.001352	0.005544
PPP1R35	535.1563	1.253019	0.096539	12.97941	1.60E-38	8.57E-37
CACNG4	3.23655	1.253055	0.390863	3.205873	0.001347	0.005523
TNFSF10	363.8754	1.255532	0.108347	11.58805	4.74E-31	2.01E-29
PVRL4	8.306783	1.255567	0.40465	3.102846	0.001917	0.007541
TRNP1	10.19922	1.255699	0.392492	3.199301	0.001378	0.005637
CERS1	22.48089	1.261308	0.32838	3.841003	0.000123	0.000641

ACN9	427.8601	1.262826	0.111977	11.27759	1.69E-29	6.82E-28
C3	1469.328	1.265234	0.070973	17.82706	4.36E-71	4.53E-69
MTERF	221.5108	1.267356	0.137422	9.222334	2.91E-20	7.78E-19
SLC25A40	268.4712	1.26877	0.120742	10.50814	7.92E-26	2.77E-24
SPTB	38.72681	1.272792	0.271657	4.685299	2.80E-06	1.98E-05
TIMP4	11.50251	1.275194	0.383926	3.321456	0.000895	0.003823
IGFBP3	1275.515	1.276932	0.068653	18.5997	3.23E-77	3.76E-75
NAT8L	97.96231	1.279313	0.188537	6.785487	1.16E-11	1.59E-10
MYO5B	75.55144	1.279349	0.208031	6.149803	7.76E-10	8.91E-09
LCA5	119.5588	1.279707	0.171733	7.451714	9.21E-14	1.54E-12
THRB	49.08056	1.281236	0.247535	5.175976	2.27E-07	1.91E-06
APLN	6.653323	1.281321	0.409684	3.127581	0.001763	0.00701
SLC45A1	6.530465	1.282637	0.409007	3.135983	0.001713	0.006834
CCDC113	75.38686	1.283726	0.216379	5.932767	2.98E-09	3.23E-08
PLEKHN1	19.835	1.283935	0.339204	3.785137	0.000154	0.000786
IDS	166.0502	1.284429	0.159754	8.040053	8.98E-16	1.77E-14
CAMK1D	15.49185	1.286996	0.362483	3.550504	0.000384	0.001793
LOC100506	35.46627	1.287599	0.279076	4.613787	3.95E-06	2.73E-05
PCSK1	4.668239	1.29023	0.407255	3.16811	0.001534	0.006196
FOXC1	75.21352	1.291279	0.213676	6.043152	1.51E-09	1.70E-08
TFPI2	817.4348	1.292158	0.085653	15.08595	2.00E-51	1.42E-49
ADAM22	129.7798	1.293688	0.166181	7.78483	6.98E-15	1.28E-13
HOGA1	19.69295	1.293718	0.341109	3.792677	0.000149	0.000766
FBXL13	5.898591	1.298639	0.409815	3.168839	0.00153	0.006183
ST14	927.3302	1.301357	0.075998	17.12362	9.89E-66	9.30E-64
KCNH3	33.11207	1.302535	0.285755	4.558217	5.16E-06	3.50E-05
AJUBA	1128.331	1.303057	0.073246	17.79012	8.43E-71	8.71E-69
RSAD2	5.931757	1.303538	0.409759	3.181233	0.001466	0.005952
ADM	194.0683	1.30355	0.153817	8.474682	2.36E-17	5.13E-16
GADD45B	209.5858	1.303806	0.137249	9.499561	2.11E-21	5.99E-20
ANK1	4.023608	1.304528	0.40237	3.242113	0.001186	0.004936
AXL	1039.818	1.304852	0.082824	15.75451	6.39E-56	4.86E-54
TNC	9.938296	1.306734	0.399246	3.273005	0.001064	0.004474
FAM185A	110.4189	1.306849	0.178816	7.308364	2.70E-13	4.34E-12
UGCG	367.1443	1.307978	0.105464	12.40215	2.54E-35	1.24E-33
PHLDB3	29.43477	1.307999	0.303804	4.305409	1.67E-05	0.000103
CACNG8	20.64564	1.310743	0.333056	3.935504	8.30E-05	0.000449
CLCN4	39.02741	1.311302	0.270255	4.852092	1.22E-06	9.12E-06
VEPH1	20.58992	1.315567	0.33595	3.915957	9.00E-05	0.000483
NTN4	192.8613	1.315664	0.140286	9.378409	6.70E-21	1.85E-19
MFSD2A	46.06701	1.31675	0.260637	5.05204	4.37E-07	3.51E-06
SPAG1	167.7506	1.317339	0.147896	8.907175	5.23E-19	1.29E-17
MKX	17.9266	1.319978	0.353486	3.73417	0.000188	0.000946
ITGA2	3046.548	1.32056	0.144966	9.109433	8.28E-20	2.16E-18
LOX	129.806	1.320972	0.165024	8.004708	1.20E-15	2.32E-14
DLX1	37.9093	1.321042	0.27723	4.765155	1.89E-06	1.37E-05
NPNT	15.06471	1.321744	0.364041	3.630759	0.000283	0.00136

SYTL2	4.182421	1.322683	0.402451	3.28657	0.001014	0.004282
C1QL1	7.945354	1.322686	0.404104	3.27313	0.001064	0.004473
SLC35F3	6.658452	1.322843	0.408282	3.240018	0.001195	0.004966
MYLK	38.80907	1.323772	0.272825	4.852086	1.22E-06	9.12E-06
FLNB	2372.062	1.323846	0.130315	10.15879	3.03E-24	9.96E-23
COL1A2	137.8661	1.326893	0.165172	8.033425	9.48E-16	1.86E-14
MGC34034	31.04679	1.326966	0.292045	4.543706	5.53E-06	3.73E-05
KIAA1522	1828.728	1.335556	0.070231	19.01652	1.24E-80	1.52E-78
WWC3	198.3164	1.337127	0.143076	9.345568	9.14E-21	2.51E-19
CDKN1A	58.37822	1.337264	0.231882	5.767012	8.07E-09	8.26E-08
KLF2	30.02221	1.338025	0.296597	4.511256	6.44E-06	4.30E-05
TRIM62	83.24961	1.339828	0.20703	6.471679	9.69E-11	1.23E-09
SYNGR3	7.423169	1.339973	0.40676	3.29426	0.000987	0.004176
AP4M1	221.5772	1.342807	0.135562	9.905476	3.94E-23	1.23E-21
CHST3	200.2815	1.346898	0.143459	9.388741	6.07E-21	1.68E-19
PARD3B	40.22753	1.347708	0.272533	4.945126	7.61E-07	5.88E-06
AP1S1	1051.058	1.348852	0.080461	16.76408	4.47E-63	3.88E-61
APOBEC3D	28.77589	1.350793	0.303725	4.447427	8.69E-06	5.69E-05
GLIS3	4.972466	1.35643	0.408024	3.324389	0.000886	0.003788
CBX6	658.4832	1.358254	0.102597	13.2387	5.24E-40	2.92E-38
RYR1	91.08172	1.362481	0.193385	7.045449	1.85E-12	2.76E-11
SLC7A7	3.814594	1.362698	0.395695	3.443805	0.000574	0.002557
DAB2	34.04366	1.362781	0.292349	4.661488	3.14E-06	2.20E-05
HCN4	5.561386	1.366288	0.409791	3.334107	0.000856	0.003668
APBB2	324.6866	1.367144	0.111984	12.20836	2.80E-34	1.32E-32
DKFZp434J	3.61327	1.36865	0.39665	3.450524	0.00056	0.002501
EREG	234.6885	1.370077	0.127958	10.70723	9.41E-27	3.44E-25
PTRF	1511.614	1.370386	0.067306	20.36067	3.73E-92	5.37E-90
MOSPD3	194.3987	1.371051	0.138729	9.882914	4.94E-23	1.54E-21
CLMN	246.5044	1.372928	0.131572	10.43477	1.72E-25	5.92E-24
CLU	471.9821	1.372964	0.106459	12.89664	4.70E-38	2.49E-36
FRAS1	350.4972	1.374923	0.131964	10.41889	2.03E-25	6.97E-24
LRRN2	47.01773	1.376887	0.251449	5.475799	4.36E-08	4.07E-07
IL18	219.5017	1.378056	0.144648	9.526953	1.62E-21	4.62E-20
NOTCH1	404.8398	1.382118	0.114945	12.02414	2.65E-33	1.21E-31
CCDC136	7.596239	1.383499	0.405224	3.414159	0.00064	0.002814
EPHX2	12.27953	1.385011	0.380023	3.644544	0.000268	0.001297
NMNAT2	11.62086	1.387367	0.385336	3.600405	0.000318	0.001509
PDZD2	78.19196	1.387687	0.211308	6.567123	5.13E-11	6.63E-10
GRIP1	12.03307	1.388225	0.390242	3.557347	0.000375	0.001751
TNFAIP3	133.9712	1.38976	0.165667	8.388867	4.91E-17	1.05E-15
LIF	970.4667	1.39454	0.083742	16.65292	2.88E-62	2.44E-60
UFSP1	77.92273	1.394946	0.214224	6.511612	7.43E-11	9.49E-10
DSC3	170.0714	1.395422	0.152077	9.175736	4.48E-20	1.19E-18
TRIB1	215.6502	1.395503	0.137532	10.14674	3.43E-24	1.12E-22
KAZN	88.6762	1.396791	0.196845	7.095906	1.29E-12	1.94E-11
THBS1	645.7701	1.397366	0.09395	14.87358	4.89E-50	3.34E-48



WDR96	11.76756	1.398592	0.385158	3.631217	0.000282	0.001358
PLK2	2226.208	1.398655	0.058015	24.10858	2.03E-128	4.97E-126
MCAM	11.7414	1.398941	0.38423	3.640894	0.000272	0.001313
CXCL6	11.63808	1.404334	0.391895	3.583445	0.000339	0.001598
HERC5	51.83804	1.404886	0.259703	5.409588	6.32E-08	5.78E-07
STOM	102.5213	1.406539	0.186659	7.535354	4.87E-14	8.31E-13
SAMD9L	51.47627	1.407541	0.252121	5.582788	2.37E-08	2.31E-07
ARPC1B	2674.516	1.411218	0.068834	20.50175	2.08E-93	3.11E-91
SLC22A4	18.01561	1.411294	0.351906	4.01043	6.06E-05	0.000337
OCLN	79.29388	1.413773	0.208173	6.791337	1.11E-11	1.53E-10
CAV1	1698.268	1.418017	0.064599	21.95099	8.47E-107	1.63E-104
ITGB8	151.0655	1.419618	0.157377	9.020519	1.87E-19	4.75E-18
BATF3	5.781422	1.419949	0.409833	3.464702	0.000531	0.002386
DHRS2	40.54319	1.422111	0.272337	5.221877	1.77E-07	1.52E-06
RASSF10	77.29961	1.423421	0.209044	6.809207	9.81E-12	1.36E-10
OSBP2	1465.129	1.424279	0.067836	20.99582	7.16E-98	1.21E-95
RBMS2	282.8453	1.427986	0.131191	10.88481	1.36E-27	5.16E-26
ETS1	54.81901	1.429047	0.243954	5.857849	4.69E-09	4.93E-08
CAV2	352.2231	1.430123	0.117524	12.16882	4.56E-34	2.13E-32
SERPINB1	801.0727	1.432262	0.08967	15.97264	1.98E-57	1.55E-55
PLAUR	210.1288	1.43392	0.140618	10.19725	2.04E-24	6.74E-23
PPL	1064.458	1.437383	0.079127	18.16556	9.67E-74	1.04E-71
SPHK1	98.04099	1.437553	0.18776	7.656328	1.91E-14	3.40E-13
GGT5	24.79414	1.437632	0.324398	4.431687	9.35E-06	6.08E-05
AGFG2	260.9626	1.437657	0.123705	11.62166	3.20E-31	1.38E-29
SRGAP1	165.5109	1.438387	0.166363	8.646102	5.33E-18	1.22E-16
SHROOM2	37.27113	1.43934	0.277764	5.181887	2.20E-07	1.86E-06
SORL1	502.1103	1.439693	0.106491	13.51941	1.20E-41	6.94E-40
TTC39A	22.16652	1.440073	0.330485	4.357454	1.32E-05	8.30E-05
POLR2J2	19.03739	1.445525	0.348512	4.147705	3.36E-05	0.000197
WDR31	23.43219	1.448171	0.330259	4.384959	1.16E-05	7.41E-05
SNTB1	50.6974	1.448207	0.252425	5.737183	9.63E-09	9.77E-08
RORC	8.009297	1.448769	0.404873	3.578333	0.000346	0.001627
LAMP3	122.1966	1.453815	0.178612	8.139498	3.97E-16	7.98E-15
CDK6	1138.886	1.455124	0.089736	16.21552	3.92E-59	3.12E-57
ZNHIT1	1054.29	1.457128	0.083203	17.51302	1.14E-68	1.11E-66
FNDC5	7.564318	1.459414	0.406858	3.587037	0.000334	0.001579
LOC34459	49.65899	1.459686	0.25856	5.645451	1.65E-08	1.63E-07
APOC1	8.366903	1.460647	0.405074	3.605874	0.000311	0.001483
RAPGEF3	45.11694	1.461325	0.263061	5.555091	2.77E-08	2.68E-07
B7H6	45.51278	1.46134	0.262045	5.576667	2.45E-08	2.38E-07
VGLL3	6.895464	1.461581	0.408938	3.574089	0.000351	0.001649
MAFF	309.1898	1.461854	0.12437	11.75409	6.73E-32	3.00E-30
GLB1L2	98.34344	1.464878	0.196632	7.449849	9.34E-14	1.56E-12
TMEM98	27.5295	1.467298	0.308009	4.763813	1.90E-06	1.37E-05
CCL2	4.125833	1.468021	0.400313	3.667181	0.000245	0.001201
LOC64685	30.83806	1.469584	0.311708	4.714622	2.42E-06	1.73E-05

TMEM40	16.59473	1.472853	0.361619	4.072939	4.64E-05	0.000264
POP7	1072.665	1.473716	0.077743	18.95613	3.93E-80	4.69E-78
BIK	53.8937	1.473895	0.240861	6.119283	9.40E-10	1.07E-08
COL5A1	29.66726	1.477006	0.300453	4.915926	8.84E-07	6.76E-06
HS3ST3B1	43.17346	1.477323	0.27592	5.354166	8.60E-08	7.73E-07
LIPG	4.093308	1.477528	0.40068	3.687549	0.000226	0.001117
ANKRD33B	33.68355	1.478989	0.303158	4.878615	1.07E-06	8.08E-06
NGEF	56.35334	1.479167	0.241701	6.119817	9.37E-10	1.07E-08
CLMP	27.03837	1.484504	0.310658	4.778583	1.77E-06	1.28E-05
CTXN1	36.18182	1.489662	0.300721	4.95364	7.28E-07	5.65E-06
3-Sep	11.82023	1.489785	0.387525	3.844361	0.000121	0.000633
BMP2	10.37029	1.490373	0.391955	3.802412	0.000143	0.00074
CLDN7	1403.861	1.491436	0.070652	21.10971	6.48E-99	1.14E-96
THSD4	589.5617	1.492146	0.097017	15.38031	2.22E-53	1.63E-51
CYP24A1	89.1686	1.495157	0.196363	7.614237	2.65E-14	4.68E-13
RHOBTB3	143.8487	1.495222	0.165308	9.04505	1.50E-19	3.80E-18
RARB	42.72992	1.49731	0.272055	5.50371	3.72E-08	3.52E-07
GPR124	18.1969	1.498439	0.3546	4.225721	2.38E-05	0.000144
GLI3	118.5365	1.501164	0.187267	8.016184	1.09E-15	2.12E-14
ADARB2	88.3815	1.505667	0.196605	7.658347	1.88E-14	3.36E-13
PTPRH	11.90911	1.506869	0.384797	3.916005	9.00E-05	0.000483
RND3	447.3369	1.509253	0.113456	13.30259	2.24E-40	1.26E-38
PADI1	16.95424	1.511414	0.357093	4.232546	2.31E-05	0.00014
LOC100501	6.955828	1.513471	0.408243	3.707277	0.000209	0.001043
SLC44A2	115.9887	1.514933	0.178446	8.489578	2.07E-17	4.53E-16
SHFM1	1904.172	1.515852	0.079119	19.15903	8.14E-82	1.03E-79
ERRFI1	749.297	1.523031	0.083576	18.22337	3.37E-74	3.66E-72
IL8	54.89069	1.523389	0.250365	6.084662	1.17E-09	1.32E-08
ARHGEF4	140.1367	1.532455	0.162741	9.416553	4.66E-21	1.29E-19
SAMD9	259.5262	1.534709	0.139837	10.97497	5.04E-28	1.93E-26
ATP5J2	1306.663	1.538744	0.068685	22.40303	3.68E-111	7.81E-109
EPHA4	21.34984	1.540868	0.342488	4.499045	6.83E-06	4.54E-05
LGALS9B	4.455143	1.542365	0.402707	3.829993	0.000128	0.000668
TIMP2	99.79019	1.542538	0.194801	7.918535	2.40E-15	4.55E-14
FBN1	35.34718	1.544048	0.287482	5.370941	7.83E-08	7.09E-07
RYR2	11.62826	1.545993	0.386511	3.999867	6.34E-05	0.000351
FMNL1	205.894	1.547866	0.137229	11.27946	1.66E-29	6.70E-28
TECPR1	229.9995	1.548553	0.135692	11.41229	3.63E-30	1.50E-28
LGALS9C	6.626066	1.549768	0.409549	3.784087	0.000154	0.000789
PLEKHA6	27.37189	1.552048	0.312956	4.959314	7.07E-07	5.50E-06
WNT7B	1479.273	1.553396	0.072244	21.50194	1.49E-102	2.74E-100
C7orf59	1078.008	1.554784	0.079997	19.4356	3.86E-84	5.34E-82
GADD45A	134.2454	1.556161	0.173848	8.951276	3.51E-19	8.73E-18
JUN	197.6891	1.559618	0.141398	11.02997	2.74E-28	1.06E-26
PCSK5	28.5004	1.563305	0.307348	5.086428	3.65E-07	2.97E-06
MEOX1	23.66937	1.565502	0.329071	4.757341	1.96E-06	1.42E-05
EML5	22.72301	1.566077	0.337357	4.6422	3.45E-06	2.40E-05

LONRF2	9.656756	1.566081	0.39816	3.9333	8.38E-05	0.000453
NYAP1	11.82491	1.567104	0.385951	4.060373	4.90E-05	0.000278
GNB2	2773.42	1.567636	0.058054	27.00308	1.36E-160	4.86E-158
ARMC10	417.227	1.568014	0.103961	15.08267	2.11E-51	1.48E-49
ELFN2	8.909652	1.569212	0.402631	3.897399	9.72E-05	0.000517
HDX	26.34773	1.569483	0.318833	4.922589	8.54E-07	6.55E-06
TTC9	16.8173	1.569572	0.357744	4.387417	1.15E-05	7.34E-05
ZSCAN20	78.49075	1.569576	0.209788	7.481724	7.34E-14	1.23E-12
DLL3	6.725756	1.570039	0.409604	3.833066	0.000127	0.00066
OVOL1	5.306195	1.571187	0.408016	3.850796	0.000118	0.000618
AKAP9	705.9908	1.571807	0.109791	14.31632	1.73E-46	1.10E-44
ICAM5	13.22808	1.572805	0.378473	4.155665	3.24E-05	0.000191
LOC64340:	10.86879	1.574722	0.398397	3.952648	7.73E-05	0.000421
NAPEPLD	142.7147	1.578052	0.164094	9.616743	6.79E-22	1.98E-20
SEMA3A	2152.779	1.582447	0.06235	25.38019	4.17E-142	1.18E-139
B4GALNT3	12.79371	1.58332	0.386791	4.093474	4.25E-05	0.000244
CRTAC1	4.555918	1.584819	0.404013	3.922691	8.76E-05	0.000471
RADIL	27.63395	1.587349	0.325615	4.874918	1.09E-06	8.22E-06
CUX1	1454.347	1.594214	0.078498	20.30907	1.07E-91	1.52E-89
KLF4	111.7379	1.595328	0.18283	8.725755	2.64E-18	6.18E-17
FIS1	1329.351	1.597762	0.074006	21.5896	2.25E-103	4.18E-101
STARD9	26.76381	1.599683	0.317019	5.04601	4.51E-07	3.62E-06
PDLIM3	10.51311	1.601117	0.394467	4.058942	4.93E-05	0.000279
FLRT1	12.85071	1.602165	0.381149	4.20351	2.63E-05	0.000158
SLC16A7	7.740108	1.609121	0.407211	3.951567	7.76E-05	0.000423
INHBE	51.21636	1.610204	0.249207	6.461304	1.04E-10	1.31E-09
STXBP1	40.53038	1.613621	0.278974	5.784128	7.29E-09	7.50E-08
GLT8D2	26.31008	1.615327	0.31782	5.08252	3.72E-07	3.03E-06
DBF4	370.5976	1.61603	0.111067	14.55001	5.84E-48	3.77E-46
POLR2J3	62.09684	1.617391	0.235138	6.878483	6.05E-12	8.58E-11
NUAK2	51.11537	1.617554	0.251559	6.430117	1.28E-10	1.58E-09
KIAA1324L	298.0308	1.619237	0.129344	12.51881	5.89E-36	2.94E-34
PLA2G7	4.876088	1.62064	0.404543	4.006102	6.17E-05	0.000342
CLCF1	67.19509	1.627152	0.228348	7.12575	1.04E-12	1.58E-11
GSN	94.55973	1.628824	0.193936	8.398787	4.51E-17	9.66E-16
C10orf47	333.9423	1.628948	0.115654	14.08471	4.72E-45	2.94E-43
NAV2	37.11171	1.631558	0.291888	5.589669	2.28E-08	2.23E-07
TUBA1A	43.14287	1.634054	0.267634	6.105559	1.02E-09	1.17E-08
PRR5L	4.794024	1.634523	0.405114	4.034724	5.47E-05	0.000307
LHX1	13.11603	1.639709	0.37923	4.32379	1.53E-05	9.56E-05
CHST11	19.9013	1.641266	0.34405	4.770427	1.84E-06	1.33E-05
C7orf43	441.2362	1.643108	0.10206	16.09935	2.58E-58	2.04E-56
F2R	206.5683	1.645636	0.141724	11.61157	3.60E-31	1.55E-29
RBP4	42.0813	1.645837	0.273501	6.017655	1.77E-09	1.97E-08
AK2	2078.418	1.650125	0.06093	27.08241	1.59E-161	5.82E-159
SLPI	931.6388	1.653371	0.092484	17.8774	1.77E-71	1.85E-69
MGAT5B	87.56941	1.655985	0.204991	8.078346	6.57E-16	1.30E-14

TP53TG1	126.8992	1.656187	0.17106	9.681924	3.60E-22	1.06E-20
SLC25A29	150.2761	1.662277	0.163703	10.15423	3.17E-24	1.04E-22
CREB5	5.60298	1.663938	0.409153	4.066785	4.77E-05	0.000271
OAS2	5.60298	1.663938	0.409153	4.066785	4.77E-05	0.000271
PHLDB2	751.7921	1.664413	0.088133	18.88525	1.51E-79	1.78E-77
ALKBH4	334.3987	1.664899	0.11273	14.76892	2.32E-49	1.56E-47
PNMA2	80.14311	1.666764	0.219639	7.588636	3.23E-14	5.65E-13
GBP1	36.17128	1.668124	0.293641	5.680822	1.34E-08	1.34E-07
EFNA1	123.4782	1.669839	0.177233	9.42171	4.44E-21	1.23E-19
DLX6	93.79853	1.670553	0.194514	8.588345	8.82E-18	1.99E-16
KRT6A	38.81336	1.671585	0.279699	5.976374	2.28E-09	2.52E-08
PPP1R15A	342.1665	1.673866	0.120493	13.89179	7.10E-44	4.29E-42
BRI3	382.937	1.674657	0.123121	13.60171	3.91E-42	2.27E-40
NR5A2	10.34045	1.675163	0.395596	4.234531	2.29E-05	0.000139
AZGP1	5.039143	1.675994	0.406043	4.127623	3.67E-05	0.000213
MFAP5	18.87886	1.679188	0.350618	4.789224	1.67E-06	1.22E-05
PDAP1	2076.411	1.679982	0.067521	24.88071	1.20E-136	3.27E-134
IL17RD	59.44024	1.680064	0.239093	7.026809	2.11E-12	3.14E-11
MGLL	17.25628	1.680688	0.356828	4.710084	2.48E-06	1.77E-05
S100BPB	349.9806	1.683698	0.118016	14.2667	3.53E-46	2.23E-44
IFI27	11.09498	1.683751	0.391282	4.303162	1.68E-05	0.000104
WNT9A	9.040371	1.686057	0.403103	4.182693	2.88E-05	0.000171
MOK	248.235	1.690401	0.129471	13.05622	5.86E-39	3.17E-37
SPINK13	5.083367	1.692456	0.406316	4.16537	3.11E-05	0.000184
L1CAM	29.94006	1.692654	0.303931	5.569212	2.56E-08	2.48E-07
ABLIM2	12.15417	1.695431	0.387174	4.378989	1.19E-05	7.59E-05
SEMA5A	30.24256	1.699238	0.310372	5.474851	4.38E-08	4.08E-07
SCARA3	66.50594	1.69929	0.22832	7.442595	9.87E-14	1.64E-12
HIVEP2	112.3211	1.70418	0.205706	8.284551	1.19E-16	2.46E-15
ZNF498	386.3858	1.704571	0.112601	15.13822	9.06E-52	6.52E-50
AATK	27.78148	1.704817	0.312397	5.457207	4.84E-08	4.49E-07
SLC12A9	680.9009	1.714597	0.088794	19.30991	4.43E-83	5.86E-81
C16orf45	25.69218	1.71539	0.323364	5.304823	1.13E-07	9.94E-07
FHL1	1165.511	1.721027	0.070873	24.28319	2.95E-130	7.46E-128
MGC12916	52.92111	1.731392	0.248177	6.976449	3.03E-12	4.40E-11
TAF6	1670.447	1.732098	0.065263	26.54015	3.34E-155	1.11E-152
PSG4	5.293832	1.733846	0.407125	4.258756	2.06E-05	0.000126
MCM7	11775.29	1.738649	0.04925	35.30238	5.40E-273	7.20E-270
STS	38.04238	1.739398	0.28283	6.149974	7.75E-10	8.91E-09
GABRR1	6.951512	1.741424	0.409524	4.252316	2.12E-05	0.000129
TRIM56	483.3201	1.742488	0.10702	16.28189	1.33E-59	1.08E-57
KLHL5	872.2479	1.743862	0.078752	22.14379	1.20E-108	2.44E-106
CASP1	166.2318	1.748256	0.15727	11.11626	1.05E-28	4.08E-27
PALM2	10.67591	1.751717	0.399886	4.380545	1.18E-05	7.55E-05
SRPX2	16.77128	1.758471	0.363259	4.840823	1.29E-06	9.60E-06
TMOD2	26.19751	1.760287	0.320913	5.485245	4.13E-08	3.87E-07
FAM200A	222.2184	1.763185	0.142523	12.37125	3.74E-35	1.80E-33

ZC3H12C	79.01653	1.769005	0.21716	8.146101	3.76E-16	7.59E-15
MGC7208C	121.2786	1.769301	0.180331	9.811395	1.01E-22	3.08E-21
PHF21B	29.72887	1.770149	0.316263	5.597085	2.18E-08	2.14E-07
GBP2	11.95388	1.777689	0.387847	4.583479	4.57E-06	3.13E-05
GPC2	22.53945	1.779054	0.334476	5.318922	1.04E-07	9.26E-07
YARS	3668.82	1.782722	0.058572	30.43627	1.82E-203	1.11E-200
FAM167A	5.548521	1.786031	0.407913	4.378463	1.20E-05	7.61E-05
MEPCE	2138.486	1.787029	0.064562	27.67942	1.24E-168	4.90E-166
ASNS	6631.548	1.787792	0.056632	31.56849	1.00E-218	7.33E-216
XK	84.09713	1.789232	0.208477	8.582402	9.29E-18	2.09E-16
SH2B2	77.72085	1.789742	0.217995	8.210002	2.21E-16	4.52E-15
COPS6	2925.573	1.791778	0.063913	28.03464	6.15E-173	2.50E-170
CYP1A1	80.61383	1.792059	0.224533	7.981274	1.45E-15	2.79E-14
BUD31	1515.124	1.792656	0.085985	20.84854	1.57E-96	2.56E-94
NFKBIZ	159.2343	1.794097	0.17394	10.31443	6.06E-25	2.04E-23
CPSF4	1076.031	1.797054	0.077581	23.16359	1.06E-118	2.39E-116
CGN	36.08462	1.798831	0.297213	6.052326	1.43E-09	1.61E-08
C7orf61	5.609329	1.80491	0.408169	4.421962	9.78E-06	6.34E-05
REEP2	24.74667	1.805559	0.328705	5.492945	3.95E-08	3.73E-07
ZNF394	391.3548	1.805834	0.109758	16.45283	8.00E-61	6.67E-59
CLDN15	235.696	1.810995	0.132845	13.63237	2.57E-42	1.50E-40
TRIM4	662.3019	1.814287	0.088217	20.56622	5.51E-94	8.50E-92
FAT3	7.431551	1.816979	0.409116	4.441226	8.94E-06	5.85E-05
SRGAP3	109.5904	1.820871	0.18543	9.819745	9.26E-23	2.85E-21
ANXA3	823.9542	1.821728	0.082872	21.98236	4.25E-107	8.31E-105
RNF19B	264.0586	1.823793	0.1326	13.75409	4.81E-43	2.83E-41
DMTF1	774.8278	1.825797	0.08625	21.16869	1.86E-99	3.32E-97
POLR2J	639.0508	1.826482	0.096174	18.99137	2.01E-80	2.42E-78
EMR1	6.494392	1.827724	0.409829	4.459724	8.21E-06	5.38E-05
C11orf70	25.11787	1.828564	0.331011	5.524176	3.31E-08	3.15E-07
CPS1	35.01226	1.830999	0.29418	6.224079	4.84E-10	5.67E-09
TSC22D4	527.6888	1.838242	0.095987	19.15101	9.49E-82	1.19E-79
GTPBP10	649.3293	1.838557	0.095095	19.33389	2.79E-83	3.71E-81
RPS6KA2	65.11977	1.839932	0.23521	7.822494	5.18E-15	9.56E-14
SMURF1	1012.615	1.846202	0.084309	21.89809	2.71E-106	5.09E-104
SVEP1	23.59923	1.846736	0.332136	5.560188	2.69E-08	2.61E-07
LMTK2	1143.455	1.848202	0.096661	19.12042	1.71E-81	2.10E-79
CHD5	20.48778	1.848922	0.34846	5.305977	1.12E-07	9.89E-07
CCL28	5.792582	1.849599	0.408725	4.525285	6.03E-06	4.05E-05
PSG5	5.787268	1.851502	0.408754	4.529629	5.91E-06	3.97E-05
SERPINB9	95.90796	1.851692	0.199125	9.299162	1.42E-20	3.84E-19
LRCH4	517.395	1.852234	0.096363	19.22152	2.45E-82	3.17E-80
ZKSCAN5	562.6704	1.852598	0.095623	19.37405	1.28E-83	1.74E-81
APOBEC3F	240.7312	1.853071	0.137352	13.49137	1.76E-41	1.01E-39
ITGA1	100.9282	1.855675	0.1981	9.367357	7.44E-21	2.05E-19
FGFBP1	1941.319	1.855692	0.071472	25.96374	1.27E-148	3.73E-146
FAM83A	193.2023	1.856348	0.147298	12.60269	2.04E-36	1.05E-34

KRT4	17.18343	1.859301	0.368736	5.042364	4.60E-07	3.68E-06
MAP1B	55.00041	1.860012	0.24771	7.508841	5.97E-14	1.01E-12
SPDYE3	24.72431	1.866874	0.330433	5.649787	1.61E-08	1.59E-07
DLX6-AS1	37.76329	1.873889	0.289233	6.478825	9.24E-11	1.17E-09
MIR25	28.8127	1.874436	0.318639	5.882634	4.04E-09	4.30E-08
GALC	160.272	1.882168	0.161254	11.67209	1.77E-31	7.70E-30
APOL3	5.978606	1.883104	0.40904	4.603715	4.15E-06	2.86E-05
DPYSL2	205.206	1.885483	0.14947	12.61448	1.76E-36	9.10E-35
FLT1	12.44536	1.886609	0.392294	4.809176	1.52E-06	1.11E-05
AFAP1-AS1	44.03321	1.886652	0.2704	6.977268	3.01E-12	4.38E-11
CDH3	812.3747	1.887391	0.085103	22.17775	5.63E-109	1.18E-106
SAA2	6.047271	1.89319	0.409104	4.627651	3.70E-06	2.57E-05
CXCL5	1268.774	1.895709	0.073403	25.82603	4.52E-147	1.30E-144
DKK1	847.9043	1.897309	0.083826	22.63402	2.00E-113	4.45E-111
RASSF5	50.23102	1.89859	0.256563	7.400091	1.36E-13	2.25E-12
PGBD5	13.13315	1.898704	0.384604	4.936775	7.94E-07	6.11E-06
LRWD1	705.928	1.9039	0.091298	20.8536	1.41E-96	2.33E-94
PRKRIP1	19.24336	1.904031	0.354219	5.375292	7.65E-08	6.93E-07
ARPC1A	2995.089	1.908302	0.064704	29.49296	3.54E-191	1.86E-188
RFTN1	12.35903	1.910889	0.390868	4.88884	1.01E-06	7.69E-06
CALCB	11.67699	1.915998	0.395003	4.850595	1.23E-06	9.18E-06
KDR	6.156546	1.919868	0.409334	4.690221	2.73E-06	1.94E-05
NTN1	36.38411	1.920051	0.295455	6.498621	8.11E-11	1.03E-09
ZNF3	765.9855	1.920301	0.092712	20.71253	2.67E-95	4.21E-93
RGMA	6.770942	1.924506	0.409145	4.703728	2.55E-06	1.82E-05
C12orf59	8.142895	1.928555	0.40813	4.725349	2.30E-06	1.64E-05
PHC2	1100.725	1.931015	0.073395	26.30988	1.48E-152	4.71E-150
SRI	1371.344	1.93119	0.078641	24.55696	3.64E-133	9.54E-131
TRIP6	3460.616	1.941814	0.055732	34.84183	5.66E-266	6.39E-263
ZKSCAN1	839.7422	1.943916	0.211884	9.174416	4.54E-20	1.20E-18
RABL5	633.1236	1.944786	0.094746	20.52639	1.25E-93	1.89E-91
PMS2P1	138.4602	1.947754	0.176443	11.039	2.48E-28	9.61E-27
CELF2	127.7602	1.952496	0.182945	10.67257	1.37E-26	4.99E-25
RNF43	117.2524	1.95433	0.188495	10.36807	3.46E-25	1.17E-23
OPTN	176.7873	1.956038	0.155708	12.56222	3.41E-36	1.72E-34
GNG11	942.3698	1.957626	0.089281	21.9265	1.45E-106	2.76E-104
GRHL3	38.72931	1.957922	0.285096	6.86758	6.53E-12	9.20E-11
OGFRL1	134.4725	1.958271	0.174915	11.19557	4.29E-29	1.71E-27
SLITRK4	29.02735	1.968868	0.314842	6.253508	4.01E-10	4.74E-09
ZSCAN21	256.8772	1.976933	0.133412	14.81825	1.12E-49	7.51E-48
GRAMD2	58.50138	1.991162	0.244021	8.159807	3.36E-16	6.79E-15
BIRC3	449.564	1.994771	0.103774	19.22233	2.41E-82	3.15E-80
TMEM45B	8.532569	1.99835	0.407501	4.903914	9.39E-07	7.16E-06
AFAP1	426.7001	1.999317	0.120787	16.5524	1.54E-61	1.30E-59
CLDN12	688.1908	2.000741	0.095166	21.02367	3.98E-98	6.87E-96
CSF1	69.34754	2.001949	0.237272	8.437365	3.25E-17	7.00E-16
MUC4	105.0888	2.006955	0.367714	5.457923	4.82E-08	4.48E-07

FILIP1L	10.365	2.011798	0.399685	5.033458	4.82E-07	3.84E-06
SLFN5	260.7359	2.014018	0.151824	13.26551	3.67E-40	2.05E-38
VGf	21.84026	2.018117	0.345296	5.844603	5.08E-09	5.31E-08
GUCY1B3	14.16635	2.01944	0.381476	5.293753	1.20E-07	1.05E-06
GUCY1A3	14.17697	2.021634	0.381302	5.301918	1.15E-07	1.01E-06
C7orf63	38.96419	2.029986	0.289326	7.016267	2.28E-12	3.37E-11
TACSTD2	1041.342	2.033812	0.076719	26.50976	7.48E-155	2.44E-152
EPHB4	3059.333	2.036008	0.062691	32.47705	2.25E-231	1.83E-228
RSPO3	6.958452	2.036491	0.409793	4.969557	6.71E-07	5.25E-06
C13orf15	10.79082	2.039501	0.400591	5.091226	3.56E-07	2.91E-06
PPP4R4	25.80956	2.041618	0.328191	6.220822	4.95E-10	5.78E-09
HEG1	92.07858	2.041851	0.214642	9.512801	1.86E-21	5.28E-20
BAIAP2L1	1409.075	2.045789	0.071415	28.64644	1.78E-180	8.40E-178
TRRAP	2151.421	2.051599	0.153753	13.34347	1.29E-40	7.35E-39
GIGYF1	1369.614	2.058926	0.073031	28.19237	7.25E-175	3.04E-172
PI3	248.2291	2.059801	0.14929	13.79731	2.65E-43	1.57E-41
UNC13D	57.55077	2.061367	0.248406	8.298385	1.06E-16	2.20E-15
EDN1	14.70975	2.063068	0.379264	5.439661	5.34E-08	4.93E-07
C10orf54	266.5136	2.064248	0.130625	15.8029	2.97E-56	2.28E-54
COBL	88.57699	2.066977	0.212498	9.727023	2.31E-22	6.94E-21
NTF3	32.74269	2.06758	0.315428	6.554849	5.57E-11	7.17E-10
GPCPD1	153.94	2.070306	0.165192	12.53274	4.94E-36	2.48E-34
VIPR1	120.4268	2.080013	0.183575	11.33057	9.26E-30	3.78E-28
C4orf19	16.81408	2.08188	0.369937	5.627655	1.83E-08	1.80E-07
HEY2	15.17404	2.101241	0.37913	5.542269	2.99E-08	2.87E-07
AMOTL2	905.987	2.103809	0.093547	22.48944	5.27E-112	1.14E-109
SOST	8.565487	2.104556	0.408849	5.147508	2.64E-07	2.20E-06
STK11	21.41712	2.105797	0.353082	5.964052	2.46E-09	2.70E-08
DKK3	70.43037	2.107	0.229551	9.178793	4.36E-20	1.16E-18
IFIT2	265.2029	2.10788	0.133878	15.74473	7.46E-56	5.64E-54
APOBEC3B	195.7398	2.109852	0.149975	14.06799	5.97E-45	3.71E-43
CYP26A1	21.02509	2.111623	0.350391	6.02647	1.68E-09	1.87E-08
DUSP8	24.89361	2.112095	0.333826	6.326927	2.50E-10	3.01E-09
SMOC1	738.5097	2.113515	0.087575	24.13386	1.10E-128	2.74E-126
SLC2A3	23.57073	2.114019	0.35078	6.026616	1.67E-09	1.87E-08
SULT1E1	13.3074	2.123631	0.387233	5.484116	4.16E-08	3.89E-07
PLOD3	1961.03	2.126377	0.065634	32.39733	2.99E-230	2.31E-227
TPM1	514.662	2.131347	0.104636	20.36916	3.14E-92	4.56E-90
GPR176	30.67067	2.133619	0.316491	6.74149	1.57E-11	2.13E-10
APOL1	107.48	2.139429	0.195095	10.96609	5.56E-28	2.12E-26
ZNF362	373.2839	2.139887	0.116492	18.36937	2.31E-75	2.55E-73
CMAHP	115.7551	2.141235	0.18821	11.37687	5.45E-30	2.25E-28
DSE	78.54945	2.143078	0.224468	9.547359	1.33E-21	3.82E-20
LEPREL2	17.84535	2.14455	0.371717	5.769316	7.96E-09	8.16E-08
TFAP2C	79.53591	2.146132	0.219922	9.758594	1.69E-22	5.10E-21
KCNN4	30.94931	2.148075	0.322812	6.654251	2.85E-11	3.78E-10
ROR1	49.78381	2.152546	0.270492	7.9579	1.75E-15	3.33E-14

CCDC80	28.49062	2.154369	0.328381	6.56057	5.36E-11	6.92E-10
ID3	231.5829	2.157061	0.143434	15.03868	4.10E-51	2.86E-49
ALDH1A3	5070.181	2.158217	0.055492	38.89217	0	0
WDR65	26.77236	2.162126	0.328037	6.591114	4.37E-11	5.69E-10
IL7	21.81019	2.164352	0.349818	6.187088	6.13E-10	7.12E-09
ST6GAL1	296.8461	2.173031	0.132439	16.40778	1.68E-60	1.39E-58
SGPP2	10.70066	2.173757	0.400352	5.42962	5.65E-08	5.19E-07
HS3ST3A1	22.28196	2.18705	0.347784	6.288528	3.20E-10	3.82E-09
SECTM1	90.76887	2.194067	0.208854	10.50526	8.17E-26	2.85E-24
WIPF1	22.33233	2.195917	0.349655	6.280232	3.38E-10	4.01E-09
ZG16B	10.90794	2.196311	0.39987	5.492557	3.96E-08	3.73E-07
NKX2-1	33.02943	2.201754	0.310554	7.089765	1.34E-12	2.03E-11
CNN3	175.1328	2.224823	0.158867	14.00427	1.47E-44	9.04E-43
SV2A	52.40644	2.225784	0.263887	8.434607	3.32E-17	7.16E-16
ZNF789	84.19961	2.226841	0.222793	9.995109	1.60E-23	5.07E-22
HTRA3	33.08511	2.227173	0.307855	7.234488	4.67E-13	7.37E-12
IL1A	11.37587	2.236588	0.3992	5.602675	2.11E-08	2.07E-07
PADI3	421.3274	2.238929	0.109322	20.48012	3.24E-93	4.80E-91
PLAC2	22.19496	2.251951	0.351075	6.414446	1.41E-10	1.74E-09
RELB	72.446	2.261503	0.235996	9.58279	9.45E-22	2.73E-20
ARTN	88.67926	2.265742	0.215996	10.48976	9.63E-26	3.35E-24
PVRIG	22.61016	2.266783	0.35219	6.436251	1.22E-10	1.53E-09
ITGB2	14.89313	2.267322	0.384716	5.893499	3.78E-09	4.05E-08
DUSP5	392.8382	2.270236	0.123146	18.43529	6.85E-76	7.66E-74
PILRB	1446.838	2.270686	0.071949	31.55958	1.32E-218	9.25E-216
SYNPO	32.21915	2.28232	0.313194	7.287246	3.16E-13	5.05E-12
DEFB1	8.51444	2.284415	0.409078	5.584297	2.35E-08	2.29E-07
TFR2	11.8763	2.286935	0.398895	5.733172	9.86E-09	1.00E-07
GOLGA7B	28.17352	2.320201	0.333201	6.963376	3.32E-12	4.81E-11
ADARB1	136.2895	2.321502	0.178255	13.02346	9.00E-39	4.83E-37
SMAD3	1142.584	2.322641	0.081991	28.32783	1.57E-176	6.98E-174
SEMA3C	2597.898	2.329314	0.069266	33.62863	6.40E-248	6.71E-245
NT5E	268.4699	2.329755	0.143184	16.27104	1.58E-59	1.28E-57
ORAI2	294.6281	2.331312	0.133555	17.45584	3.11E-68	3.00E-66
GALNT5	26.2233	2.332765	0.343769	6.785845	1.15E-11	1.58E-10
OASL	37.45437	2.337301	0.318265	7.34388	2.07E-13	3.37E-12
HYI	247.4777	2.338766	0.138346	16.9052	4.12E-64	3.68E-62
ZCWPW1	82.20116	2.356922	0.223251	10.55729	4.70E-26	1.67E-24
LOC72846	13.60687	2.359519	0.391435	6.027872	1.66E-09	1.86E-08
SEMA7A	44.77429	2.366491	0.287528	8.230484	1.86E-16	3.82E-15
NKX1-2	10.46141	2.371714	0.405494	5.848947	4.95E-09	5.19E-08
COL12A1	354.0875	2.385273	0.124209	19.20367	3.45E-82	4.40E-80
FLJ22447	11.67473	2.395222	0.401015	5.972901	2.33E-09	2.56E-08
TRPC1	34.24582	2.396413	0.315483	7.596014	3.05E-14	5.36E-13
DUOX1	47.39712	2.397727	0.278252	8.617114	6.87E-18	1.56E-16
C10orf114	33.62159	2.397841	0.31341	7.650821	2.00E-14	3.55E-13
PRICKLE1	55.34673	2.422316	0.262305	9.234728	2.59E-20	6.97E-19



ZNF462	194.0424	2.429364	0.174291	13.93851	3.70E-44	2.25E-42
IGFBP6	302.7033	2.430442	0.134115	18.12207	2.13E-73	2.27E-71
PLXDC2	82.37919	2.431274	0.225454	10.78392	4.10E-27	1.53E-25
MEST	1233.407	2.44723	0.074782	32.72495	6.90E-235	5.95E-232
SDPR	165.9664	2.450194	0.168377	14.55181	5.69E-48	3.69E-46
SLCO3A1	286.6065	2.464646	0.133106	18.51643	1.52E-76	1.74E-74
MYCN	9.91523	2.47133	0.407309	6.067464	1.30E-09	1.47E-08
CLDN1	5370.027	2.47251	0.057513	42.99063	0	0
GCNT3	22.20229	2.48479	0.356869	6.962745	3.34E-12	4.82E-11
IFFO2	392.6814	2.493726	0.12138	20.5447	8.58E-94	1.31E-91
SYNE1	519.7682	2.497487	0.242267	10.30881	6.43E-25	2.16E-23
INHBA	12.71221	2.506624	0.397914	6.299408	2.99E-10	3.57E-09
SFRP5	20.14114	2.507432	0.365101	6.86778	6.52E-12	9.20E-11
GLB1L3	15.20644	2.513453	0.387426	6.487574	8.72E-11	1.11E-09
PTPRR	44.2569	2.51592	0.291482	8.631471	6.06E-18	1.38E-16
PSG6	10.33723	2.518178	0.406753	6.190926	5.98E-10	6.95E-09
KLHL29	54.31823	2.52252	0.272766	9.24794	2.29E-20	6.18E-19
CDH2	172.8158	2.525002	0.165164	15.28783	9.22E-53	6.72E-51
MYPN	10.49774	2.533208	0.406513	6.231555	4.62E-10	5.42E-09
CARD16	45.89303	2.541765	0.290016	8.764235	1.88E-18	4.43E-17
AUTS2	63.71882	2.549707	0.254096	10.03441	1.08E-23	3.45E-22
BARX2	60.47218	2.550842	0.260875	9.778016	1.40E-22	4.26E-21
CYR61	887.5841	2.551257	0.089504	28.50438	1.03E-178	4.74E-176
ZNF655	1189.678	2.551987	0.083637	30.51271	1.77E-204	1.13E-201
HMCN1	13.75902	2.558908	0.398016	6.429164	1.28E-10	1.59E-09
FAIM3	40.37711	2.560369	0.301523	8.491462	2.04E-17	4.47E-16
ALX4	20.13704	2.577584	0.371193	6.944048	3.81E-12	5.49E-11
SDC2	30.23602	2.58765	0.329083	7.863204	3.74E-15	7.00E-14
C7orf23	667.8884	2.613753	0.100595	25.98283	7.74E-149	2.37E-146
LEPREL1	339.1209	2.62067	0.127247	20.59506	3.04E-94	4.74E-92
ATF3	86.72189	2.621028	0.230402	11.37591	5.51E-30	2.26E-28
STEAP1	173.661	2.624052	0.173116	15.15781	6.73E-52	4.86E-50
STK32B	18.21279	2.640051	0.377798	6.987994	2.79E-12	4.06E-11
PDE8B	81.0518	2.647253	0.237587	11.14223	7.81E-29	3.06E-27
MACC1	88.15571	2.64772	0.228108	11.60731	3.78E-31	1.63E-29
KRT23	213.9073	2.65442	0.15608	17.00676	7.32E-65	6.83E-63
CDH10	20.93301	2.65658	0.365771	7.262965	3.79E-13	6.02E-12
DAGLA	48.37994	2.665091	0.28745	9.271508	1.84E-20	4.97E-19
PAG1	46.87901	2.673554	0.29479	9.069362	1.20E-19	3.08E-18
IL1RL1	188.4829	2.719517	0.167503	16.23563	2.82E-59	2.27E-57
IL32	16.36059	2.724932	0.387005	7.041076	1.91E-12	2.84E-11
UBE2QL1	13.55893	2.725945	0.398639	6.838126	8.02E-12	1.12E-10
CTGF	281.6186	2.726328	0.141925	19.20958	3.08E-82	3.96E-80
RELN	15.94365	2.727503	0.394706	6.910219	4.84E-12	6.90E-11
EPS8L1	43.50182	2.729242	0.298484	9.143678	6.04E-20	1.59E-18
MT2A	713.6455	2.747217	0.099408	27.63573	4.14E-168	1.60E-165
APOBEC3G	38.47081	2.749371	0.312666	8.793306	1.45E-18	3.49E-17

CROT	355.3935	2.755514	0.130799	21.06675	1.61E-98	2.80E-96
BRSK1	17.01007	2.761878	0.38668	7.142548	9.16E-13	1.40E-11
EFEMP1	1885.598	2.767775	0.068579	40.35863	0	0
ASB2	84.8974	2.775208	0.232014	11.96141	5.66E-33	2.57E-31
PXDN	30.48212	2.794723	0.335243	8.336414	7.66E-17	1.61E-15
VSNL1	27.84332	2.796711	0.345829	8.086986	6.12E-16	1.22E-14
C1orf116	412.796	2.798108	0.119213	23.47159	7.96E-122	1.82E-119
GPR110	534.4923	2.802512	0.107713	26.01844	3.06E-149	9.56E-147
NOV	97.38907	2.809208	0.223587	12.5643	3.32E-36	1.68E-34
STRA6	13.01912	2.810254	0.402008	6.990546	2.74E-12	4.00E-11
LOC38863	13.06653	2.812139	0.40203	6.994839	2.66E-12	3.89E-11
C10orf55	428.8125	2.816525	0.117306	24.00997	2.19E-127	5.26E-125
BNC1	35.7265	2.83124	0.321122	8.816715	1.18E-18	2.84E-17
LCN2	308.1305	2.837286	0.135625	20.9201	3.51E-97	5.85E-95
PLAU	1903.883	2.844452	0.073167	38.87623	0	0
ARHGEF37	42.36898	2.844703	0.305305	9.317573	1.19E-20	3.25E-19
CDH1	522.2662	2.848868	0.117005	24.34823	6.05E-131	1.56E-128
GDA	349.8924	2.856482	0.128931	22.15513	9.31E-109	1.92E-106
LOC10050	70.28786	2.860415	0.255577	11.19198	4.46E-29	1.77E-27
AKAP12	695.7219	2.875606	0.105088	27.36377	7.41E-165	2.78E-162
STEAP2	193.0593	2.876518	0.170852	16.83633	1.32E-63	1.16E-61
RUNX2	47.92847	2.879154	0.293613	9.805944	1.06E-22	3.24E-21
CGA	54.38683	2.890844	0.279932	10.32695	5.32E-25	1.80E-23
HES7	15.80755	2.92175	0.394258	7.410761	1.26E-13	2.08E-12
PSG1	14.31978	2.926629	0.399811	7.320036	2.48E-13	3.98E-12
CDH5	132.2615	2.928005	0.19995	14.64366	1.48E-48	9.72E-47
ADAM12	144.7639	2.931554	0.193094	15.18203	4.65E-52	3.38E-50
NGFR	711.3846	2.938212	0.097987	29.98563	1.51E-197	8.52E-195
MPPED2	14.59849	2.951362	0.399312	7.391111	1.46E-13	2.40E-12
DIO2	21.32303	2.951668	0.374748	7.876412	3.37E-15	6.33E-14
PTGS2	864.257	2.960151	0.094785	31.23024	4.14E-214	2.76E-211
CLDN16	14.89166	2.962291	0.399183	7.420882	1.16E-13	1.93E-12
TMEM45A	54.78453	2.981938	0.285115	10.45873	1.34E-25	4.62E-24
C15orf52	28.77017	3.006717	0.349278	8.608367	7.41E-18	1.67E-16
RAB36	25.11999	3.069641	0.366796	8.368807	5.82E-17	1.23E-15
SAMD4A	232.5198	3.077526	0.162006	18.99639	1.83E-80	2.21E-78
PDGFB	215.4019	3.080968	0.166594	18.49388	2.31E-76	2.61E-74
IL24	42.77979	3.08542	0.313253	9.849622	6.88E-23	2.14E-21
KRT13	9754.562	3.097643	0.059799	51.8009	0	0
WFDC2	138.6316	3.099881	0.340841	9.094795	9.48E-20	2.46E-18
STAG3	31.16252	3.104133	0.346943	8.947102	3.65E-19	9.05E-18
SYBU	86.09076	3.11495	0.242258	12.85798	7.76E-38	4.09E-36
SPTSSB	47.37891	3.119291	0.305569	10.20815	1.82E-24	6.05E-23
CTSH	159.3795	3.126531	0.19259	16.23413	2.89E-59	2.32E-57
SCEL	43.22981	3.128638	0.320068	9.774913	1.44E-22	4.38E-21
NID2	147.4233	3.133466	0.202708	15.45804	6.66E-54	4.96E-52
ACHE	32.32729	3.160081	0.346554	9.118594	7.61E-20	1.99E-18

IL20	18.01214	3.161327	0.395492	7.993407	1.31E-15	2.54E-14
PDP1	818.6658	3.167527	0.096664	32.76848	1.66E-235	1.52E-232
GATS	164.2098	3.189881	0.192742	16.55003	1.60E-61	1.34E-59
INHBB	67.09897	3.202323	0.272508	11.75132	6.95E-32	3.09E-30
FYN	161.5589	3.207769	0.191871	16.71832	9.64E-63	8.32E-61
SERPINE1	37.28447	3.218056	0.332126	9.689268	3.35E-22	9.86E-21
DAPP1	30.17621	3.233508	0.3545	9.12133	7.42E-20	1.94E-18
NRXN2	25.14287	3.240485	0.375737	8.624333	6.45E-18	1.47E-16
ATOH8	70.98756	3.249988	0.267354	12.1561	5.32E-34	2.49E-32
ACTBL2	22.80007	3.270576	0.378726	8.635738	5.83E-18	1.33E-16
IL7R	29.07765	3.273156	0.361167	9.062718	1.27E-19	3.26E-18
RASD1	96.70026	3.322867	0.240409	13.82174	1.88E-43	1.13E-41
SLC24A3	38.63695	3.342671	0.333914	10.01056	1.37E-23	4.36E-22
PADI2	26.80665	3.368311	0.37026	9.097143	9.27E-20	2.41E-18
TMEM156	126.3939	3.399993	0.220666	15.40789	1.45E-53	1.07E-51
IGFL1	471.3018	3.402075	0.126486	26.8969	2.39E-159	8.34E-157
PSG9	22.12607	3.422676	0.389811	8.780353	1.63E-18	3.87E-17
CSGALNAC	79.28915	3.455689	0.264586	13.06073	5.52E-39	3.00E-37
HES2	24.78268	3.467739	0.381588	9.087642	1.01E-19	2.62E-18
SFTA1P	34.0307	3.490488	0.354386	9.849386	6.90E-23	2.14E-21
ANKRD1	454.2761	3.49879	0.138052	25.34403	1.05E-141	2.89E-139
COL5A3	36.68331	3.50185	0.347579	10.07496	7.13E-24	2.31E-22
CCND2	25.2695	3.630819	0.383858	9.458748	3.12E-21	8.81E-20
C15orf48	28.93553	3.67195	0.376202	9.760588	1.66E-22	5.02E-21
BDKRB2	30.62141	3.763041	0.373304	10.08037	6.75E-24	2.19E-22
FST	803.0874	3.772007	0.113751	33.16034	4.02E-241	3.93E-238
ITGB3	39.85218	3.790111	0.35239	10.75546	5.59E-27	2.07E-25
CLDN4	380.4974	3.889994	0.149768	25.97352	9.86E-149	2.95E-146
CD24	197.029	3.971233	0.20359	19.50601	9.76E-85	1.36E-82
FEZ1	262.0394	3.99799	0.180552	22.14313	1.21E-108	2.44E-106
GPR65	34.79313	4.031416	0.373978	10.77983	4.29E-27	1.60E-25
SCGB1A1	527.0074	4.109421	0.136494	30.10688	3.94E-199	2.31E-196
KLK10	138.9255	4.119638	0.240325	17.14196	7.22E-66	6.83E-64
SNCAIP	118.012	4.148792	0.260028	15.95517	2.62E-57	2.03E-55
OLR1	312.8974	4.177474	0.174704	23.91173	2.31E-126	5.38E-124
TGFB2	488.6128	4.22156	0.149275	28.28039	6.02E-176	2.60E-173
CALB2	903.6421	4.279372	0.122296	34.99201	2.98E-268	3.64E-265
IL1B	55.83719	4.297685	0.34685	12.39063	2.94E-35	1.42E-33
NEURL	78.27173	4.312462	0.309096	13.95185	3.07E-44	1.87E-42
SAA1	45.46668	4.354101	0.366388	11.88385	1.44E-32	6.48E-31
ACOXL	55.06202	4.420092	0.349236	12.65645	1.03E-36	5.36E-35
KRT80	86.59311	4.437256	0.307861	14.41316	4.28E-47	2.74E-45
BST2	178.4493	4.465211	0.23745	18.80483	6.89E-79	8.09E-77
CPA4	124.3244	4.47621	0.27357	16.3622	3.56E-60	2.93E-58
TNFRSF11E	82.72819	4.769539	0.327395	14.56814	4.48E-48	2.92E-46
KRT81	185.2329	4.829803	0.24918	19.38282	1.08E-83	1.48E-81
TGM2	3924.348	4.85671	0.076373	63.59176	0	0

PTGES	857.2215	4.943931	0.134769	36.68437	1.30E-294	1.90E-291
NOTCH3	165.6534	4.985925	0.271066	18.3938	1.47E-75	1.64E-73
TNFSF18	77.13147	5.044193	0.349497	14.43272	3.22E-47	2.07E-45
CDH11	131.8809	5.142522	0.303399	16.9497	1.93E-64	1.77E-62
MUC16	161.3245	5.268105	0.31155	16.90936	3.84E-64	3.50E-62
NPR3	224.3122	5.273008	0.25458	20.71259	2.67E-95	4.21E-93
SERPINB2	147.8557	5.499321	0.313555	17.53864	7.27E-69	7.15E-67
STEAP4	530.3603	7.287216	0.29575	24.63977	4.74E-134	1.26E-131
ABCB1	3198.668	7.816076	0.165928	47.10518	0	0

Normalized Counts for RNA seq from PDXs treated with Gem/Pac

Name	Bo_103_v	G13_veh.t	Bo_103_G	G13_GP.txt
A1BG	9.990475	1.221632	0	2.219335
A1BG-AS1	0	0	0	0
A1CF	72.43094	15.2704	0	15.97921
A2LD1	11.65555	81.84934	20.09219	25.30042
A2M	0	0	0	6.658005
A2ML1	3.330158	10.99469	8.036876	4.43867
A2MP1	0.83254	0	8.036876	3.107069
A4GALT	1.665079	64.13568	32.1475	123.8389
A4GNT	46.62222	0	12.05531	0.443867
AA06	0	0	0	0
AAA1	1.665079	0.610816	0	0.887734
AAAS	279.7333	185.0772	216.9957	197.5208
AACS	417.1023	230.2776	32.1475	181.9855
AACSP1	0	0.610816	12.05531	1.775468
AADAC	87.41666	163.0879	0	125.1705
AADACL2	0	1.221632	0	0
AADACL3	0	0	0	0
AADACL4	0	0	0	0
AADAT	7.492856	7.329791	0	13.75988
AAGAB	269.7428	526.5234	80.36876	445.6425
AAK1	121.5508	150.8715	68.31345	137.1549
AAMP	1459.442	1183.151	5015.011	1221.078
AANAT	9.990475	1.221632	0	3.550936
AARS	1399.499	935.1592	1205.531	648.9336
AARS2	228.9484	130.7146	68.31345	134.9356
AARSD1	210.6325	314.5702	687.1529	191.7506
AASDH	59.11031	82.46015	20.09219	71.90646
AASDHPPT	34.13412	102.6171	140.6453	73.23806
AASS	13.32063	32.98406	0	63.91685
AATF	505.3515	653.5731	401.8438	270.7589
AATK	545.3134	42.1463	20.09219	58.14658
AATK-AS1	0	0	0	0
ABAT	16.65079	7.329791	28.12907	47.0499
ABCA1	49.95237	56.19507	1370.287	83.89087
ABCA10	9.157935	8.551423	16.07375	3.550936
ABCA11P	36.63174	21.37856	0	33.29003
ABCA12	48.2873	223.5586	4.018438	256.5551
ABCA13	0.83254	4.275712	12.05531	13.75988
ABCA17P	0.83254	0	0	0.887734
ABCA2	625.2372	128.2714	140.6453	290.7329
ABCA3	90.74681	26.8759	140.6453	28.85136
ABCA4	5.827777	6.10816	64.29501	7.545739
ABCA5	84.91904	40.92467	16.07375	39.94803
ABCA6	4.162698	0.610816	20.09219	8.433473
ABCA7	989.057	137.4336	52.23969	350.2111

ABCA8	3.330158	0.610816	140.6453	5.326404
ABCA9	0	0.610816	52.23969	3.550936
ABCB1	2.497619	9.773055	112.5163	19.97402
ABCB10	13.32063	67.18975	4.018438	46.60604
ABCB11	3.330158	3.664896	8.036876	7.101872
ABCB4	2.497619	9.773055	48.22126	7.989606
ABCB5	0	0	4.018438	3.550936
ABCB6	412.9396	377.4843	76.35032	212.6123
ABCB7	68.26825	193.6287	20.09219	72.35032
ABCB8	584.4428	258.986	68.31345	230.8108
ABCB9	54.11507	41.53548	60.27657	51.93244
ABCC1	236.4412	213.1748	76.35032	312.9262
ABCC10	174.8333	133.7687	136.6269	154.9096
ABCC11	1.665079	1.221632	0	2.219335
ABCC12	0	0	4.018438	0
ABCC13	0	0	0	0
ABCC2	3.330158	109.3361	4.018438	99.87008
ABCC3	3290.196	5705.021	212.9772	4198.982
ABCC4	9.157935	158.8121	28.12907	62.58525
ABCC5	398.7865	85.51423	807.706	127.3898
ABCC6	89.08173	14.65958	24.11063	22.63722
ABCC6P1	1.665079	0	0	0.443867
ABCC6P2	2.497619	1.221632	8.036876	0.443867
ABCC8	2.497619	0	60.27657	3.107069
ABCC9	0.83254	6.718975	24.11063	7.101872
ABCD1	39.12936	70.85465	96.44251	89.66114
ABCD2	4.162698	1.832448	52.23969	3.107069
ABCD3	111.5603	219.2829	100.461	206.3982
ABCD4	226.4508	269.9807	172.7928	246.3462
ABCE1	124.0484	138.6552	92.42408	185.5364
ABCF1	0	0	0	0
ABCF2	482.873	395.1979	863.9642	316.9211
ABCF3	1068.148	445.8956	345.5857	444.3109
ABCG1	29.97142	9.773055	140.6453	30.62682
ABCG2	6.660317	10.99469	108.4978	7.545739
ABCG4	0	1.221632	16.07375	3.107069
ABCG5	24.14365	0	0	0
ABCG8	3.330158	0.610816	8.036876	0.443867
ABHD1	9.157935	4.886528	112.5163	9.321207
ABHD10	330.5182	116.055	24.11063	94.98754
ABHD11	1706.706	857.5856	225.0325	940.1103
ABHD11-A	193.9817	150.2607	40.18438	86.99794
ABHD12	860.0134	909.505	763.5032	818.0469
ABHD12B	0	0	4.018438	0.443867
ABHD13	14.15317	49.47609	20.09219	35.06549
ABHD14A	58.27777	59.24915	152.7006	34.17776
ABHD14A-	0	0	0	0

ABHD14B	764.2713	470.9391	88.40564	289.8452
ABHD15	41.62698	170.4177	16.07375	83.89087
ABHD16A	0	0	0	0
ABHD16B	164.0103	120.9416	8.036876	144.2568
ABHD2	764.2713	962.6459	156.7191	955.6457
ABHD3	69.10078	103.8387	4.018438	75.45739
ABHD4	279.7333	189.9638	558.5629	296.0593
ABHD5	58.27777	66.57894	341.5672	63.47298
ABHD6	34.13412	4.275712	48.22126	16.86695
ABHD8	92.41189	53.14099	124.5716	77.67673
ABI1	203.1397	255.9319	542.4891	254.3358
ABI2	198.977	172.2501	28.12907	153.1341
ABI3	37.46428	25.65427	526.4154	33.29003
ABI3BP	36.63174	172.8609	80.36876	154.0219
ABL1	174.8333	128.2714	112.5163	177.9907
ABL2	60.77539	71.46547	92.42408	87.4418
ABLIM1	1267.958	482.5446	72.33188	629.4034
ABLIM2	66.60317	10.38387	20.09219	7.101872
ABLIM3	267.2452	208.2882	96.44251	127.3898
ABO	21.64603	0.610816	0	0
ABP1	806.7309	39.09222	8.036876	118.0686
ABR	675.1896	739.6981	180.8297	649.8213
ABRA	0.83254	0	20.09219	0.443867
ABT1	119.0532	211.9531	12.05531	139.8181
ABTB1	1765.816	145.985	357.641	177.5468
ABTB2	48.2873	89.17913	24.11063	79.00833
ACAA1	1157.23	633.4161	1269.826	612.0926
ACAA2	133.2063	366.4896	317.4566	256.1113
ACACA	376.3079	487.4311	68.31345	343.9969
ACACB	246.4317	28.09753	56.25813	45.7183
ACAD10	264.7476	130.7146	100.461	137.1549
ACAD11	0	3.664896	0	8.87734
ACAD8	225.6182	207.6774	265.2169	257.4429
ACAD9	815.8888	313.9594	160.7375	312.4824
ACADL	15.81825	5.497344	317.4566	11.98441
ACADM	29.97142	115.4442	233.0694	130.053
ACADS	829.2094	172.2501	433.9913	127.3898
ACADSB	23.31111	23.21101	68.31345	24.85655
ACADVL	3445.049	2711.412	1080.96	2506.517
ACAN	4.162698	0	4.018438	0.887734
ACAP1	75.7611	10.38387	606.7841	27.96362
ACAP2	75.7611	75.74118	104.4794	82.55927
ACAP3	911.6308	544.8478	152.7006	778.0989
ACAT1	170.6706	193.0178	771.5401	121.6196
ACAT2	179.8285	370.1545	52.23969	108.7474
ACBD3	104.9	178.9691	84.3872	224.1528
ACBD4	84.0865	176.5258	176.8113	148.6955

ACBD5	74.09602	196.0719	72.33188	189.0873
ACBD6	317.1976	265.7049	683.1345	154.0219
ACBD7	40.79444	17.71366	0	18.19855
ACCN1	0	0	68.31345	0.443867
ACCN2	14.98571	3.05408	40.18438	4.43867
ACCN3	115.723	13.43795	0	27.96362
ACCN4	1.665079	0	32.1475	0
ACCN5	0	0	0	0
ACCS	258.0873	83.07097	140.6453	93.65594
ACCSL	0	0	0	0
ACD	330.5182	219.8937	100.461	139.3742
ACE	192.3166	154.5364	972.462	170.0011
ACE2	299.7142	97.73055	0	97.20688
ACER1	0	0.610816	0	0
ACER2	4.162698	3.664896	4.018438	7.101872
ACER3	60.77539	119.7199	229.051	71.90646
ACHE	145.6944	237.6074	56.25813	493.1363
ACIN1	1363.7	954.0945	1322.066	1260.582
ACLY	404.6142	951.6513	1000.591	759.9003
ACMSD	19.98095	6.10816	0	6.658005
ACN9	24.14365	73.90873	32.1475	27.96362
ACO1	242.269	208.8991	204.9403	163.7869
ACO2	144.0293	239.4399	273.2538	208.6175
ACOT1	4.995237	9.162239	8.036876	8.87734
ACOT11	44.95714	36.03814	4.018438	42.16737
ACOT12	0	0	8.036876	1.775468
ACOT13	107.3976	365.8788	128.59	177.9907
ACOT2	23.31111	105.0603	20.09219	60.80978
ACOT4	7.492856	73.90873	36.16594	52.82018
ACOT6	0	0	0	2.219335
ACOT7	591.9356	127.0497	454.0835	79.89606
ACOT8	136.5365	133.7687	144.6638	94.98754
ACOT9	266.4127	364.0463	679.116	203.735
ACOX1	296.3841	311.5161	24.11063	222.3774
ACOX2	14.98571	0	0	1.775468
ACOX3	139.0341	111.7793	16.07375	118.9564
ACOXL	0.83254	2.443264	0	6.658005
ACP1	606.9214	619.3674	76.35032	367.9658
ACP2	283.0635	193.6287	80.36876	212.1684
ACP5	204.8047	155.1473	361.6594	166.894
ACP6	240.6039	660.9029	164.756	451.4128
ACPL2	43.29206	30.5408	12.05531	31.95843
ACPP	40.79444	37.87059	8.036876	24.41269
ACPT	0	0	0	0.443867
ACR	0	0	4.018438	0
ACRBP	4.162698	10.38387	36.16594	7.101872
ACRC	9.157935	22.60019	0	33.29003



ACRV1	0.83254	1.832448	0	0.887734
ACSBG1	1.665079	1.832448	48.22126	7.101872
ACSBG2	0	2.443264	0	0.887734
ACSF2	178.996	685.3355	44.20282	658.6987
ACSF3	223.1206	147.2066	68.31345	109.6352
ACSL1	149.0246	23.82182	116.5347	162.0115
ACSL3	143.1968	540.5721	132.6085	319.1404
ACSL4	60.77539	271.8131	148.6822	347.9917
ACSL5	1073.976	419.0197	715.282	357.3129
ACSL6	1.665079	2.443264	32.1475	0.887734
ACSM1	7.492856	2.443264	4.018438	8.87734
ACSM2A	0	0	4.018438	0
ACSM2B	0	0	0	0
ACSM3	21.64603	24.43264	0	36.84096
ACSM4	1.665079	4.275712	8.036876	3.550936
ACSM5	0	0	4.018438	0
ACSS1	827.5443	880.1858	16.07375	752.3546
ACSS2	512.0118	499.6475	104.4794	295.6154
ACSS3	0	0	4.018438	0
ACTA1	60.77539	17.71366	8024.821	52.37631
ACTA2	641.0555	412.3008	2583.856	566.8182
ACTB	19018.53	18134.51	6702.755	13299.59
ACTBL2	54.11507	43.36793	839.8536	87.88567
ACTC1	52.44999	37.25977	1567.191	73.68193
ACTG1	17046.25	17918.29	7703.346	9302.121
ACTG2	279.7333	161.8662	3451.838	306.7121
ACTL10	71.5984	73.90873	4.018438	53.26404
ACTL6A	447.9063	332.2839	470.1573	195.7454
ACTL6B	0	0	12.05531	0.443867
ACTL7A	0	0	8.036876	0
ACTL7B	0	0	16.07375	0.443867
ACTL8	0	0	0	0.887734
ACTL9	0	0	0	0
ACTN1	265.5801	739.0873	703.2267	854.8879
ACTN2	4.995237	1.221632	522.3969	1.775468
ACTN3	4.162698	5.497344	1748.021	10.65281
ACTN4	2276.996	3583.046	1281.882	2108.368
ACTR10	207.3024	435.5118	642.9501	225.4844
ACTR1A	820.884	448.3389	803.6876	502.4575
ACTR1B	673.5245	351.2192	156.7191	305.3805
ACTR2	276.4031	422.6846	164.756	432.7703
ACTR3	615.2467	874.0776	3652.76	811.3889
ACTR3B	65.77063	51.30854	40.18438	24.85655
ACTR3BP2	0	0	0	0
ACTR3BP5	0	0	0	0
ACTR3C	4.162698	13.43795	0	6.214138
ACTR5	198.1444	164.3095	88.40564	110.5229

ACTR6	37.46428	54.97344	44.20282	28.85136
ACTR8	149.0246	92.84402	542.4891	116.737
ACTRT1	1.665079	0	0	0.443867
ACTRT2	0	0	0	0
ACVR1	61.60793	319.4567	128.59	281.4117
ACVR1B	241.4365	133.7687	68.31345	149.5832
ACVR1C	2.497619	1.832448	4.018438	2.219335
ACVR2A	108.2301	117.2767	100.461	89.66114
ACVR2B	43.29206	25.65427	80.36876	27.96362
ACVRL1	30.80396	20.76774	369.6963	29.73909
ACY1	1.665079	13.43795	0	11.09668
ACY3	127.3786	98.95218	8.036876	105.6404
ACYP1	83.25396	69.63302	76.35032	51.04471
ACYP2	53.28253	50.69772	64.29501	42.61123
ADA	24.14365	17.10285	273.2538	18.64241
ADAD1	0	0	0	0
ADAD2	0	0.610816	0	0
ADAL	13.32063	40.31385	0	53.70791
ADAM1	44.95714	21.37856	28.12907	33.73389
ADAM10	23.31111	216.2288	152.7006	319.5843
ADAM11	0.83254	2.443264	12.05531	8.433473
ADAM12	0.83254	2.443264	40.18438	1.331601
ADAM15	3305.182	1572.851	972.462	2021.37
ADAM17	38.29682	76.96281	96.44251	134.4917
ADAM18	0	0.610816	0	0
ADAM19	14.98571	14.04877	277.2722	17.31081
ADAM2	0	0	0	0.887734
ADAM20	0	0	0	0.443867
ADAM21	0	0	8.036876	1.775468
ADAM21P:	0	0	0	0
ADAM22	8.325396	11.6055	16.07375	15.53535
ADAM23	18.31587	9.162239	128.59	32.84616
ADAM28	89.91427	561.9507	8.036876	367.078
ADAM29	0	0.610816	0	0.443867
ADAM30	0	0	0	0
ADAM32	14.98571	12.21632	0	26.18815
ADAM33	1.665079	0.610816	116.5347	6.214138
ADAM3A	0	0	0	0
ADAM5P	0	0	0	0.443867
ADAM6	0	0	0	0
ADAM7	0	0	0	0
ADAM8	1507.729	832.5421	32.1475	1426.589
ADAM9	322.1928	883.2399	273.2538	769.2215
ADAMDEC	0	0	0	0
ADAMTS1	4.162698	10.99469	225.0325	22.19335
ADAMTS1C	52.44999	90.40076	478.1941	496.6872
ADAMTS1E	0.83254	9.162239	20.09219	13.31601

ADAMTS13	75.7611	63.52486	0	73.23806
ADAMTS14	1.665079	1.221632	12.05531	7.989606
ADAMTS15	9.990475	5.497344	345.5857	18.64241
ADAMTS16	1.665079	3.664896	24.11063	2.219335
ADAMTS17	28.30635	1.221632	36.16594	1.331601
ADAMTS18	0	0	24.11063	0.887734
ADAMTS19	0	1.221632	20.09219	2.663202
ADAMTS20	270.5754	74.51955	1969.035	123.8389
ADAMTS21	0	0	4.018438	0
ADAMTS22	0	0.610816	20.09219	7.101872
ADAMTS23	41.62698	65.35731	112.5163	56.81498
ADAMTS24	1.665079	3.05408	293.346	15.09148
ADAMTS25	4.162698	12.82714	52.23969	35.50936
ADAMTS26	5.827777	3.664896	44.20282	15.09148
ADAMTS27	0.83254	3.664896	16.07375	11.54054
ADAMTS28	78.25872	32.37325	44.20282	47.0499
ADAMTS29	0.83254	0	0	2.219335
ADAMTSL1	3.330158	9.773055	140.6453	13.31601
ADAMTSL2	0	0	20.09219	1.331601
ADAMTSL3	2.497619	3.05408	20.09219	6.658005
ADAMTSL4	4.995237	14.65958	88.40564	33.73389
ADAMTSL5	181.4936	73.29791	72.33188	86.55407
ADAP1	1694.218	878.3533	108.4978	530.4211
ADAP2	5.827777	7.940607	84.3872	16.86695
ADAR	952.4253	1450.077	265.2169	1448.338
ADARB1	54.94761	11.6055	96.44251	18.64241
ADARB2	0	0	16.07375	0.887734
ADARB2-A'	0	0	0	0
ADAT1	14.15317	37.87059	12.05531	52.37631
ADAT2	175.6659	52.53017	76.35032	43.0551
ADAT3	258.0873	42.1463	12.05531	46.60604
ADC	130.7087	32.37325	365.6779	56.81498
ADCK1	169.8381	50.08691	40.18438	49.26924
ADCK2	107.3976	235.1641	152.7006	149.1393
ADCK3	690.1753	218.6721	221.0141	291.6206
ADCK4	346.3365	187.5205	237.0878	156.2412
ADCK5	736.7975	331.0622	116.5347	266.7641
ADCY1	0.83254	0	20.09219	3.994803
ADCY10	1.665079	6.718975	24.11063	6.214138
ADCY2	0.83254	5.497344	180.8297	4.882537
ADCY3	39.12936	69.0222	233.0694	89.21727
ADCY4	40.79444	38.48141	462.1204	83.89087
ADCY5	153.1873	59.24915	144.6638	166.0063
ADCY6	644.3856	317.0135	221.0141	554.3899
ADCY7	50.78491	49.47609	60.27657	113.1861
ADCY8	0	0	28.12907	0.443867
ADCY9	37.46428	26.8759	108.4978	76.34513

ADCYAP1	0	1.221632	0	1.331601
ADCYAP1R	0.83254	1.221632	48.22126	2.663202
ADD1	898.3102	877.1317	385.7701	1138.075
ADD2	0.83254	1.832448	4.018438	2.219335
ADD3	189.819	355.4949	510.3416	231.6986
ADGB	1.665079	0	0	0.887734
ADH1A	0	1.221632	60.27657	0.443867
ADH1B	4.995237	0	56.25813	1.331601
ADH1C	271.4079	3.664896	192.885	7.101872
ADH4	1.665079	7.940607	0	20.86175
ADH5	326.3555	781.2336	353.6225	409.6893
ADH6	183.9912	17.10285	108.4978	23.52495
ADH7	0	0	88.40564	1.331601
ADHFE1	18.31587	1.221632	68.31345	1.775468
ADI1	479.5428	442.2308	124.5716	419.8982
ADIG	0	0	0	0
ADIPOQ	0	0	48.22126	0.443867
ADIPOR1	498.6912	701.8275	2740.575	782.9814
ADIPOR2	516.1745	594.9347	321.475	547.7319
ADK	139.8666	285.8619	176.8113	206.842
ADM	114.0579	81.23852	44.20282	78.56446
ADM2	82.42142	123.9956	4.018438	110.079
ADNP	131.5413	291.97	454.0835	450.0812
ADNP2	66.60317	69.63302	4.018438	47.0499
ADO	47.45476	129.493	180.8297	109.6352
ADORA1	3.330158	293.8025	32.1475	319.1404
ADORA2A	4.995237	6.10816	60.27657	10.65281
ADORA2B	2.497619	107.5036	44.20282	92.76821
ADORA3	0	0.610816	0	2.219335
ADPGK	224.7857	364.0463	60.27657	517.1051
ADPRH	33.30158	37.25977	442.0282	59.03431
ADPRHL1	11.65555	87.34668	8.036876	52.37631
ADPRHL2	640.2229	346.3326	602.7657	315.1456
ADRA1A	0	0	8.036876	0
ADRA1B	0	36.64896	20.09219	18.64241
ADRA1D	0	0	16.07375	0.887734
ADRA2A	381.3031	26.8759	44.20282	79.4522
ADRA2B	2.497619	5.497344	4.018438	8.433473
ADRA2C	3.330158	3.05408	12.05531	1.775468
ADRB1	13.32063	0.610816	20.09219	1.331601
ADRB2	4.162698	2.443264	20.09219	15.53535
ADRB3	0	0	12.05531	0.443867
ADRBK1	3352.637	1064.041	2149.864	1164.707
ADRBK2	23.31111	18.93529	36.16594	25.30042
ADRM1	1506.064	935.77	1301.974	870.4232
ADSL	281.3984	434.2901	269.2353	173.552
ADSS	111.5603	422.0738	305.4013	280.9678

ADSSL1	119.8857	183.8556	642.9501	242.3514
ADTRP	9.990475	5.497344	0	8.87734
AEBP1	149.8571	188.1313	3628.65	473.1622
AEBP2	44.95714	112.3901	337.5488	92.32434
AEN	492.0309	147.2066	44.20282	194.4138
AES	5428.158	2090.823	1856.518	1784.345
AFAP1	159.8476	252.267	8.036876	238.3566
AFAP1-AS1	889.9848	319.4567	8.036876	727.498
AFAP1L1	22.47857	50.08691	104.4794	93.65594
AFAP1L2	109.8952	100.1738	56.25813	104.7526
AFF1	100.7373	201.5693	56.25813	292.5084
AFF2	0	7.940607	60.27657	0.443867
AFF3	0	1.221632	68.31345	1.775468
AFF4	79.09126	113.001	257.18	172.2204
AFG3L1P	258.0873	109.9469	277.2722	138.4865
AFG3L2	884.9896	706.1032	148.6822	446.0864
AFM	0	0	0	0
AFMID	172.3357	299.9106	8.036876	166.0063
AFP	0	296.2457	12.05531	11.54054
AFTPH	117.3881	192.407	570.6182	185.5364
AGA	65.77063	306.6296	136.6269	182.4293
AGAP1	179.8285	179.5799	305.4013	243.2391
AGAP11	0	3.05408	0	4.882537
AGAP2	95.74205	9.162239	216.9957	18.64241
AGAP3	1096.455	540.5721	1563.172	464.7288
AGAP4	13.32063	4.886528	0	5.770271
AGAP5	4.162698	12.21632	0	15.09148
AGAP6	69.10078	36.03814	0	79.4522
AGAP7	0	0	0	0
AGAP8	4.162698	3.664896	0	10.65281
AGAP9	0	0	0	0
AGBL1	0	0	4.018438	0
AGBL2	24.97619	9.162239	0	23.52495
AGBL3	14.15317	14.04877	4.018438	10.65281
AGBL4	0.83254	0	4.018438	0
AGBL5	134.8714	150.2607	76.35032	137.5988
AGER	0	0	0	0
AGFG1	363.8198	379.9275	486.231	403.919
AGFG2	560.2991	1110.463	48.22126	1064.393
AGGF1	52.44999	165.5311	128.59	107.4158
AGK	164.8428	147.8175	56.25813	128.2776
AGL	29.13889	50.69772	124.5716	68.79939
AGMAT	87.41666	69.0222	8.036876	23.96882
AGMO	15.81825	112.3901	16.07375	57.25885
AGPAT1	7.492856	9.162239	0	9.765074
AGPAT2	2486.796	1177.042	60.27657	773.6602
AGPAT3	325.523	327.3974	462.1204	300.498

AGPAT4	502.0214	79.40607	164.756	104.3087
AGPAT4-IT	7.492856	2.443264	0	3.107069
AGPAT5	49.95237	139.266	180.8297	121.6196
AGPAT6	1663.414	664.5678	305.4013	666.6883
AGPAT9	35.7992	50.08691	4.018438	27.07589
AGPHD1	16.65079	5.497344	0	2.663202
AGPS	124.8809	248.6021	60.27657	167.7817
AGR2	6363.933	24693.46	208.9588	8945.252
AGR3	282.2309	51.30854	20.09219	56.37111
AGRN	4848.711	3324.671	100.461	3743.574
AGRP	0	0.610816	0	0
AGSK1	0	0	0	0
AGT	1.665079	272.4239	0	2001.396
AGTPBP1	86.58412	38.48141	200.9219	37.7287
AGTR1	0	10.38387	8.036876	11.98441
AGTR2	0	0	4.018438	3.107069
AGTRAP	685.1801	560.729	64.29501	566.8182
AGXT	0	0.610816	12.05531	1.331601
AGXT2	0.83254	0	4.018438	0
AGXT2L1	0	0	0	1.775468
AGXT2L2	421.265	172.2501	64.29501	210.393
AHCTF1	77.42618	94.06566	8.036876	111.8545
AHCY	1620.122	1344.406	454.0835	834.0261
AHCYL1	576.1174	613.87	743.411	625.8525
AHCYL2	434.5857	43.97875	229.051	95.43141
AHDC1	145.6944	239.4399	401.8438	269.4273
AHI1	109.0627	53.14099	4.018438	75.45739
AHNAK	2992.147	3653.901	7004.138	2762.184
AHNAK2	209.8	919.8888	108.4978	792.3026
AHR	296.3841	1033.501	52.23969	391.9346
AHRR	24.14365	12.21632	0	25.74429
AHSA1	564.4618	728.0926	2270.417	563.7111
AHSA2	527.8301	398.8628	96.44251	506.0084
AHSG	0.83254	12.21632	0	9.321207
AHSP	0	0	0	0
AICDA	1.665079	8.551423	0	1.331601
AIDA	4.162698	17.10285	12.05531	15.97921
AIF1	0	0	4.018438	0
AIF1L	9.990475	17.10285	108.4978	192.6383
AIFM1	372.9777	478.2689	462.1204	306.2682
AIFM2	197.3119	351.2192	100.461	251.2287
AIFM3	57.44523	59.85996	16.07375	60.36591
AIG1	248.9293	121.5524	204.9403	107.8597
AIM1	343.8388	202.7909	76.35032	184.6487
AIM1L	339.6761	221.1154	36.16594	164.6747
AIM2	3.330158	0	0	0
AIMP1	499.5237	495.9826	550.526	321.3597

AIMP2	116.5555	148.4283	120.5531	78.56446
AIP	482.873	495.9826	1703.818	434.5458
AIPL1	0	0	0	0.443867
AIRE	0	0	0	0.443867
AJAP1	0	0	0	0
AJUBA	135.704	135.6011	36.16594	128.7214
AK1	410.442	125.8281	261.1985	163.7869
AK2	922.4539	697.5518	132.6085	460.734
AK3	172.3357	328.619	76.35032	243.2391
AK4	360.4896	233.3317	4.018438	137.1549
AK5	4.162698	102.0063	12.05531	6.658005
AK7	29.13889	87.34668	0	27.07589
AK8	21.64603	14.65958	24.11063	9.765074
AKAP1	497.0261	698.7735	180.8297	395.4855
AKAP10	30.80396	76.35199	80.36876	116.2932
AKAP11	41.62698	54.36262	56.25813	90.99274
AKAP12	1.665079	32.37325	12.05531	29.73909
AKAP13	394.6238	809.942	184.8482	1232.619
AKAP14	4.995237	0	0	0
AKAP17A	0	0	0	0
AKAP2	0	0.610816	0	0.443867
AKAP3	0	20.15693	4.018438	24.41269
AKAP4	0	0	0	0.443867
AKAP5	3.330158	1.832448	24.11063	8.433473
AKAP6	0.83254	9.162239	8.036876	8.433473
AKAP7	12.48809	14.04877	44.20282	7.989606
AKAP8	536.1555	201.5693	108.4978	251.6726
AKAP8L	1682.562	445.8956	650.987	558.3847
AKAP9	97.40713	241.2723	52.23969	249.0094
AKD1	41.62698	13.43795	16.07375	19.97402
AKIP1	55.78015	65.96812	168.7744	50.60084
AKIRIN1	120.7182	206.4558	646.9685	241.9075
AKIRIN2	164.0103	110.5577	831.8167	116.2932
AKIRIN2-A1	0.83254	0	0	1.775468
AKNA	269.7428	35.42733	8.036876	35.50936
AKNAD1	0	0	0	0
AKR1A1	2321.953	1350.514	23053.78	1141.626
AKR1B1	143.1968	274.8672	1326.085	332.9003
AKR1B10	855.8507	1580.181	92.42408	589.8993
AKR1B15	26.64127	45.8112	32.1475	46.16217
AKR1C1	89.91427	304.1863	56.25813	115.4054
AKR1C2	70.76586	1095.804	60.27657	676.4533
AKR1C3	710.9888	4063.759	36.16594	1855.808
AKR1C4	110.7278	28.09753	84.3872	35.95323
AKR1CL1	0	0	0	0.443867
AKR1D1	2.497619	3.664896	32.1475	3.994803
AKR1E2	8.325396	35.42733	28.12907	20.86175

AKR7A2	510.3468	573.5562	482.2126	343.9969
AKR7A2P1	3.330158	1.832448	24.11063	0.887734
AKR7A3	354.6619	972.419	100.461	838.4648
AKR7L	225.6182	136.212	120.5531	165.1185
AKT1	1516.055	1563.689	2117.717	1727.087
AKT1S1	530.3277	345.7218	269.2353	286.7381
AKT2	781.7547	694.4977	980.4989	644.051
AKT3	9.990475	8.551423	172.7928	20.41788
AKTIP	66.60317	69.63302	116.5347	66.58005
ALAD	248.9293	182.0232	1004.61	225.4844
ALAS1	526.165	231.4992	1153.292	254.3358
ALAS2	0.83254	2.443264	48.22126	1.331601
ALB	0	8208.145	16.07375	4860.788
ALCAM	746.788	726.871	261.1985	573.4762
ALDH16A1	870.0039	460.5552	196.9035	296.947
ALDH18A1	659.3713	286.4727	164.756	272.0905
ALDH1A1	1025.689	1978.433	233.0694	1011.129
ALDH1A2	10.82301	45.20038	16.07375	109.1913
ALDH1A3	4.995237	139.8769	88.40564	167.7817
ALDH1B1	140.6992	128.2714	84.3872	90.105
ALDH1L1	191.4841	99.563	100.461	65.24845
ALDH1L2	45.78968	3.05408	20.09219	8.433473
ALDH2	2628.327	579.0535	1784.186	565.9304
ALDH3A1	219.7904	3.664896	8.036876	26.63202
ALDH3A2	420.4325	453.8363	36.16594	352.8743
ALDH3B1	517.8396	701.2167	462.1204	435.8774
ALDH3B2	52.44999	14.04877	301.3829	52.37631
ALDH4A1	147.3595	200.3476	16.07375	176.2152
ALDH5A1	13.32063	61.69241	32.1475	55.92724
ALDH6A1	3.330158	40.92467	60.27657	42.61123
ALDH7A1	140.6992	263.8725	357.641	170.8888
ALDH8A1	14.98571	0.610816	0	4.43867
ALDH9A1	285.5611	266.3158	152.7006	237.9127
ALDOA	23033.87	6048.91	16708.67	6013.066
ALDOB	188.9865	221.7262	1269.826	235.6934
ALDOC	354.6619	338.392	1032.739	165.1185
ALG1	104.0674	154.5364	60.27657	140.262
ALG10	0	28.70835	0	16.42308
ALG10B	14.98571	18.32448	8.036876	16.86695
ALG11	14.98571	23.21101	8.036876	15.53535
ALG12	104.0674	274.8672	20.09219	191.7506
ALG13	88.2492	193.6287	20.09219	191.7506
ALG14	127.3786	88.56831	36.16594	75.01353
ALG1L	78.25872	43.36793	32.1475	32.40229
ALG1L2	4.162698	0.610816	4.018438	3.550936
ALG2	148.192	159.423	24.11063	146.4761
ALG3	1120.598	386.6465	80.36876	397.7048



ALG5	253.9246	435.5118	401.8438	201.0718
ALG6	44.95714	48.25446	4.018438	32.84616
ALG8	207.3024	350.6084	168.7744	256.5551
ALG9	140.6992	147.8175	56.25813	99.42621
ALK	1.665079	1.221632	60.27657	1.775468
ALKBH1	24.14365	45.20038	48.22126	47.0499
ALKBH2	176.4984	94.06566	12.05531	43.94283
ALKBH3	66.60317	67.18975	92.42408	47.93764
ALKBH4	73.26348	181.4123	52.23969	126.5021
ALKBH5	242.269	301.1323	237.0878	345.7724
ALKBH6	443.7436	222.9478	208.9588	164.6747
ALKBH7	556.969	277.9213	56.25813	120.288
ALKBH8	16.65079	27.48672	32.1475	23.96882
ALLC	0	0	4.018438	0
ALMS1	69.93332	44.58956	56.25813	42.16737
ALMS1P	0.83254	0	16.07375	0.443867
ALOX12	1.665079	1.832448	8.036876	12.87214
ALOX12B	0.83254	0	4.018438	0
ALOX12P2	24.97619	32.37325	4.018438	40.83577
ALOX15	0	1.832448	28.12907	3.550936
ALOX15B	0.83254	0	8.036876	0.443867
ALOX15P1	0	0.610816	0	0
ALOX5	457.8968	366.4896	152.7006	815.8276
ALOX5AP	30.80396	20.15693	502.3048	46.16217
ALOXE3	6.660317	0.610816	32.1475	3.107069
ALPI	0	0	8.036876	1.775468
ALPK1	286.3936	188.1313	32.1475	287.182
ALPK2	2.497619	0.610816	12.05531	2.663202
ALPK3	209.8	554.6209	32.1475	1804.319
ALPL	0	0	0	1.331601
ALPP	0	0.610816	0	1.331601
ALPPL2	0	0.610816	0	2.663202
ALS2	124.0484	106.8928	60.27657	142.0374
ALS2CL	1951.473	678.6165	48.22126	689.3255
ALS2CR11	0	2.443264	0	5.326404
ALS2CR12	0	2.443264	0	1.331601
ALS2CR8	1.665079	20.76774	4.018438	25.30042
ALX1	0	0	0	0
ALX3	4.162698	6.10816	16.07375	17.31081
ALX4	0.83254	3.05408	24.11063	4.882537
ALYREF	964.0808	677.3949	458.1019	363.971
AMACR	0.83254	87.34668	12.05531	31.51456
AMBN	0	0	0	0
AMBP	27.47381	153.9256	0	138.4865
AMBRA1	182.3262	128.8822	261.1985	136.711
AMD1	107.3976	237.6074	413.8991	204.6227
AMDHD1	0	0.610816	28.12907	3.550936

AMDHD2	288.0587	217.4505	538.4707	232.5863
AMELX	0	0	4.018438	0
AMELY	0	0	4.018438	0
AMFR	530.3277	654.7947	361.6594	553.946
AMH	313.0349	13.43795	16.07375	46.16217
AMHR2	0	0	20.09219	0.443867
AMICA1	7.492856	2.443264	16.07375	2.219335
AMIGO1	9.990475	4.275712	40.18438	3.550936
AMIGO2	145.6944	111.7793	8.036876	122.0634
AMIGO3	110.7278	17.10285	16.07375	35.50936
AMMECR1	55.78015	117.8875	454.0835	88.32954
AMMECR1	99.90475	131.9362	136.6269	169.5572
AMN	845.0277	822.1583	24.11063	486.0344
AMN1	7.492856	51.91936	20.09219	25.74429
AMOT	250.5944	0	32.1475	2.219335
AMOTL1	22.47857	280.3645	253.1616	240.5759
AMOTL2	208.1349	158.8121	269.2353	331.1248
AMPD1	4.162698	0	233.0694	1.775468
AMPD2	1486.083	274.8672	297.3644	382.1695
AMPD3	10.82301	28.70835	68.31345	42.16737
AMPH	0	0	12.05531	0
AMT	124.8809	108.1144	24.11063	94.98754
AMTN	0	0	0	0.443867
AMY1A	0	0	0	0
AMY1B	0	0	0	0
AMY1C	0	0	0	0
AMY2A	0	0	0	0
AMY2B	29.13889	22.60019	0	41.7235
AMZ1	4.995237	2.443264	84.3872	5.770271
AMZ2	213.1301	304.7972	152.7006	211.2807
AMZ2P1	29.13889	46.42201	0	31.07069
ANAPC1	91.57935	97.11974	172.7928	95.87528
ANAPC10	38.29682	50.69772	156.7191	39.50416
ANAPC11	853.3531	1236.291	1635.504	573.9201
ANAPC13	279.7333	166.7528	510.3416	165.5624
ANAPC16	452.9015	942.489	606.7841	589.0115
ANAPC2	601.0936	306.0188	1121.144	338.2267
ANAPC4	277.2357	190.5746	442.0282	186.868
ANAPC5	1214.675	566.2264	3825.553	604.5469
ANAPC7	695.1705	268.759	470.1573	252.1165
ANG	104.9	215.0072	48.22126	115.4054
ANGEL1	32.46904	110.5577	16.07375	90.99274
ANGEL2	41.62698	67.18975	36.16594	63.91685
ANGPT1	0.83254	5.497344	16.07375	4.882537
ANGPT2	4.162698	11.6055	72.33188	12.87214
ANGPT4	6.660317	0	8.036876	1.775468
ANGPTL1	0	1.832448	112.5163	3.550936

ANGPTL2	6.660317	23.21101	200.9219	57.70271
ANGPTL3	0	1.221632	28.12907	0
ANGPTL4	312.2023	577.8319	168.7744	281.8556
ANGPTL5	0.83254	0.610816	8.036876	0.443867
ANGPTL6	3.330158	0.610816	20.09219	0.887734
ANGPTL7	4.162698	3.664896	52.23969	5.770271
ANK1	28.30635	49.47609	92.42408	33.29003
ANK2	9.157935	1.832448	144.6638	8.87734
ANK3	49.95237	215.0072	76.35032	150.0271
ANKAR	4.995237	7.940607	0	5.770271
ANKDD1A	6.660317	6.10816	4.018438	23.52495
ANKFN1	1.665079	0	8.036876	1.775468
ANKFY1	219.7904	189.3529	124.5716	256.999
ANKH	126.546	63.52486	120.5531	119.4002
ANKHD1	71.5984	19.54611	32.1475	14.64761
ANKHD1-E	22.47857	10.38387	56.25813	5.326404
ANKIB1	108.2301	189.3529	120.5531	197.9647
ANKK1	14.98571	34.81651	0	13.31601
ANKLE1	14.98571	1.832448	4.018438	2.663202
ANKLE2	765.1039	553.3993	28.12907	604.103
ANKMY1	160.6801	127.0497	8.036876	108.7474
ANKMY2	75.7611	155.1473	100.461	190.8628
ANKRA2	37.46428	47.03283	116.5347	56.81498
ANKRD1	0.83254	1.832448	12.05531	6.658005
ANKRD10	679.3523	376.8734	128.59	365.7464
ANKRD11	260.5849	164.3095	172.7928	256.5551
ANKRD12	54.94761	87.34668	221.0141	98.98235
ANKRD13A	222.2881	106.8928	345.5857	185.9803
ANKRD13B	29.13889	32.37325	128.59	42.61123
ANKRD13C	62.44047	80.62771	156.7191	67.02392
ANKRD13C	761.7737	388.4789	136.6269	458.5146
ANKRD16	63.27301	51.30854	116.5347	40.3919
ANKRD17	146.527	271.8131	618.8395	422.1175
ANKRD18A	14.15317	15.88121	0	10.65281
ANKRD18B	0	4.886528	0	0.443867
ANKRD18C	0	0	0	0
ANKRD19P	47.45476	20.76774	807.706	33.73389
ANKRD2	2.497619	7.940607	4.018438	6.214138
ANKRD20A	0	0	0	0
ANKRD20A	0	0	0	0
ANKRD20A	0	0	0	0
ANKRD20A	0	0	0	0
ANKRD20A	0	0	0	0
ANKRD20A	4.995237	4.275712	4.018438	6.658005
ANKRD20A	0	0	0	0
ANKRD20A	1.665079	1.221632	0	0.443867
ANKRD22	308.8722	207.0666	12.05531	152.2464

ANKRD23	23.31111	29.92998	124.5716	48.82537
ANKRD24	1.665079	3.05408	28.12907	7.989606
ANKRD26	9.157935	28.70835	8.036876	26.63202
ANKRD26P	0	0.610816	0	2.219335
ANKRD26P	0	0	0	0
ANKRD27	74.92856	226.0019	112.5163	137.1549
ANKRD28	85.75158	76.35199	156.7191	108.3036
ANKRD29	9.157935	1.221632	4.018438	0.443867
ANKRD30A	0	0	0	0
ANKRD30B	0	0	0	0
ANKRD30B	0	0	4.018438	0
ANKRD30B	0.83254	0	0	0
ANKRD31	0	0.610816	0	0.887734
ANKRD32	7.492856	24.43264	8.036876	13.75988
ANKRD33	0	0	4.018438	0
ANKRD33B	1.665079	9.162239	16.07375	10.20894
ANKRD34A	4.162698	7.329791	44.20282	5.326404
ANKRD34B	0	0	0	1.775468
ANKRD34C	0	0	0	0
ANKRD35	13.32063	9.773055	24.11063	31.95843
ANKRD36	13.32063	23.21101	0	16.86695
ANKRD36B	4.162698	4.886528	0	16.86695
ANKRD36B	0	2.443264	0	4.43867
ANKRD36B	1.665079	4.886528	0	0.443867
ANKRD37	54.94761	28.70835	32.1475	12.87214
ANKRD39	84.0865	128.8822	92.42408	86.99794
ANKRD40	142.3643	204.0125	727.3373	176.2152
ANKRD42	23.31111	25.04345	8.036876	24.41269
ANKRD44	35.7992	19.54611	188.8666	32.84616
ANKRD45	1.665079	0	8.036876	2.663202
ANKRD46	23.31111	47.03283	72.33188	35.50936
ANKRD49	57.44523	84.2926	32.1475	69.24325
ANKRD5	37.46428	108.1144	4.018438	78.1206
ANKRD50	29.97142	80.62771	28.12907	82.1154
ANKRD52	376.3079	205.2342	622.8579	287.182
ANKRD53	0	0	0	0
ANKRD54	460.3944	187.5205	136.6269	172.6643
ANKRD55	14.98571	0.610816	80.36876	1.775468
ANKRD6	14.98571	23.82182	8.036876	33.29003
ANKRD62P	0	0	4.018438	0
ANKRD63	0	0	4.018438	0
ANKRD65	0.83254	3.664896	8.036876	11.98441
ANKRD7	0	0	0	0
ANKRD9	1089.794	305.408	32.1475	244.5707
ANKS1A	116.5555	183.8556	60.27657	203.735
ANKS1B	0	0.610816	64.29501	1.331601
ANKS3	607.7539	324.3433	204.9403	268.9834

ANKS4B	109.8952	119.1091	0	51.48857
ANKS6	371.3127	365.8788	48.22126	254.3358
ANKUB1	0	0	0	0.443867
ANKZF1	1284.609	670.6759	438.0097	784.7569
ANLN	100.7373	283.4186	24.11063	224.5967
ANO1	185.6563	1273.551	24.11063	806.9502
ANO10	114.0579	141.7093	72.33188	83.447
ANO2	0.83254	0	12.05531	0
ANO3	0	1.221632	4.018438	4.882537
ANO4	2.497619	0	48.22126	3.107069
ANO5	25.80873	7.329791	4.018438	13.31601
ANO6	64.10555	149.6499	12.05531	114.0738
ANO7	69.93332	18.93529	16.07375	16.86695
ANO8	134.8714	106.282	68.31345	170.4449
ANO9	1585.988	411.0791	32.1475	331.1248
ANP32A	511.1793	452.0038	1948.942	359.5323
ANP32A-IT	0.83254	1.221632	0	1.331601
ANP32AP1	0.83254	0	56.25813	0.443867
ANP32B	1722.524	822.1583	2913.368	508.6716
ANP32C	8.325396	3.664896	148.6822	3.550936
ANP32D	1.665079	0.610816	36.16594	3.994803
ANP32E	178.996	345.111	582.6735	393.71
ANPEP	331.3508	2811.586	1374.306	7735.271
ANTXR1	3.330158	12.21632	88.40564	18.19855
ANTXR2	114.8905	312.7378	602.7657	238.8005
ANTXRL	0	1.221632	0	0
ANXA1	1774.142	2037.071	8386.48	1208.206
ANXA10	1696.716	2829.299	12.05531	924.575
ANXA11	3403.422	3856.692	932.2776	2422.626
ANXA13	1289.604	869.1911	16.07375	230.8108
ANXA2	6698.613	22142.08	1474.767	8555.981
ANXA2P1	200.642	137.4336	4781.941	158.9044
ANXA2P2	140.6992	143.5417	2672.261	117.1809
ANXA2P3	174.0008	127.0497	4572.982	129.6092
ANXA3	482.873	1942.395	542.4891	940.9981
ANXA4	2364.412	6040.359	1088.997	3443.52
ANXA5	1317.91	2987.501	4950.716	1750.612
ANXA6	160.6801	317.6243	4360.005	402.5874
ANXA7	438.7484	1120.847	1643.541	810.0573
ANXA8	0	0	0	0
ANXA8L1	0	0	0	0
ANXA8L2	2.497619	20.76774	0	23.52495
ANXA9	81.58888	441.0091	20.09219	257.4429
AOAH	0	2.443264	40.18438	3.550936
AOC2	4.162698	3.05408	32.1475	7.989606
AOC3	1.665079	1.221632	8.036876	6.214138
AOC4	0	0	20.09219	0

AOX1	0.83254	12.21632	76.35032	51.93244
AOX2P	0	0	8.036876	0.887734
AP1AR	81.58888	57.4167	44.20282	71.46259
AP1B1	1428.638	1044.495	715.282	719.9523
AP1B1P1	0	0	0	0
AP1G1	254.7571	348.7759	377.7332	464.2849
AP1G2	1855.731	1331.579	421.936	1339.147
AP1M1	191.4841	220.5046	277.2722	218.3826
AP1M2	1588.486	620.589	80.36876	470.9429
AP1S1	810.8935	1149.556	1052.831	962.3037
AP1S2	0.83254	3.05408	20.09219	8.87734
AP1S3	84.0865	148.4283	8.036876	115.4054
AP2A1	542.8158	641.3568	1032.739	501.5697
AP2A2	469.5523	404.3602	389.7885	334.6757
AP2B1	982.3967	1665.695	261.1985	1185.569
AP2M1	5804.466	1448.855	7711.383	1411.497
AP2S1	2277.828	1271.719	7474.295	781.206
AP3B1	89.91427	211.9531	462.1204	150.0271
AP3B2	0	1.221632	12.05531	2.219335
AP3D1	1188.034	740.9198	293.346	915.6977
AP3M1	183.9912	210.7315	176.8113	238.8005
AP3M2	357.992	88.56831	56.25813	83.00313
AP3S1	174.0008	104.4495	940.3145	99.87008
AP3S2	0	7.940607	32.1475	11.98441
AP4B1	918.2912	147.2066	108.4978	147.3639
AP4E1	16.65079	31.76243	28.12907	36.84096
AP4M1	160.6801	816.6609	108.4978	452.3005
AP4S1	19.14841	72.6871	212.9772	38.61643
AP5B1	223.9531	142.3201	36.16594	168.6695
APAF1	24.14365	10.99469	40.18438	23.08108
APBA1	16.65079	6.10816	164.756	11.54054
APBA2	0.83254	2.443264	40.18438	4.882537
APBA3	198.977	90.40076	48.22126	96.76301
APBB1	178.996	18.93529	405.8622	40.3919
APBB1IP	7.492856	37.87059	192.885	51.04471
APBB2	78.25872	53.7518	176.8113	93.65594
APBB3	109.8952	66.57894	277.2722	113.1861
APC	37.46428	45.20038	361.6594	59.47818
APC2	31.6365	20.15693	32.1475	21.30562
APCDD1	0.83254	3.05408	12.05531	4.882537
APCDD1L	0.83254	0.610816	0	0
APCS	0	0	0	16.42308
APEH	1437.796	805.0554	872.0011	517.9928
APEX1	375.4753	1302.87	425.9544	950.7632
APEX2	401.2841	218.6721	52.23969	230.367
APH1A	1211.345	1871.54	1482.804	1433.69
APH1B	27.47381	244.9372	192.885	352.8743

API5	178.1635	133.7687	64.29501	101.6455
APIP	71.5984	69.0222	116.5347	50.60084
APITD1	59.11031	45.8112	0	29.29522
APITD1-CO	0	0	0	0
APLF	2.497619	1.221632	24.11063	4.43867
APLN	11.65555	10.38387	52.23969	3.107069
APLNR	0	3.664896	24.11063	15.97921
APLP1	9.157935	50.08691	36.16594	95.87528
APLP2	2012.248	3316.731	1354.214	4130.183
APOA1	1.665079	2.443264	0	3.107069
APOA1BP	835.8697	914.3915	743.411	626.2964
APOA2	0	0	0	0.443867
APOA4	0	0	0	0
APOA5	0	0	0	0
APOB	0	0	8.036876	0.887734
APOBEC1	39.12936	12.21632	80.36876	11.54054
APOBEC2	3.330158	1.221632	361.6594	0.887734
APOBEC3A	1.665079	0	4.018438	0.887734
APOBEC3B	79.09126	33.59488	8.036876	55.48338
APOBEC3C	26.64127	31.76243	0	25.74429
APOBEC3D	45.78968	18.32448	0	11.98441
APOBEC3F	62.44047	20.76774	0	27.51976
APOBEC3G	11.65555	0.610816	4.018438	6.658005
APOBEC3H	0	0	0	0
APOBEC4	0	0	0	0.443867
APOBR	18.31587	1.832448	20.09219	7.545739
APOC1	28.30635	37.87059	0	13.31601
APOC1P1	0.83254	0	0	0
APOC2	0	0	0	0
APOC3	0	0	0	0
APOC4	0	0	0	0
APOC4-API	0	0	0	0
APOD	20.81349	27.48672	2812.907	84.33473
APOE	2252.02	2386.458	109932.4	5056.977
APOF	3.330158	0	0	0
APOH	0	4.886528	0	10.20894
APOL1	2681.61	1222.243	32.1475	1898.863
APOL2	1029.019	390.3114	16.07375	456.2953
APOL3	263.0825	33.59488	0	74.56966
APOL4	29.97142	1.221632	0	2.663202
APOL5	0	0	0	1.331601
APOL6	239.7714	179.5799	8.036876	191.7506
APOLD1	10.82301	29.92998	12.05531	26.63202
APOM	0	0	0	0
APOO	57.44523	78.79526	96.44251	40.83577
APOOL	24.97619	70.24383	76.35032	39.0603
APOPT1	101.5698	315.181	180.8297	207.7298

APP	991.5546	2458.534	2431.155	2345.837
APPBP2	38.29682	131.9362	204.9403	132.7162
APPL1	65.77063	76.35199	136.6269	47.93764
APPL2	199.8095	403.7493	225.0325	261.8815
APRT	2335.274	1491.613	1346.177	906.8203
APTX	305.542	334.7271	196.9035	245.0146
AQP1	546.9785	165.5311	618.8395	248.1217
AQP10	0.83254	0	8.036876	0
AQP11	13.32063	17.10285	28.12907	8.433473
AQP12A	0	0	0	0
AQP12B	0	0	0	0
AQP2	6.660317	14.04877	44.20282	35.50936
AQP3	71.5984	83.07097	44.20282	379.0624
AQP4	0	0	0	0.443867
AQP5	664.3666	1120.236	12.05531	875.3058
AQP6	16.65079	28.09753	0	47.93764
AQP7	3.330158	3.05408	28.12907	7.101872
AQP7P1	0	0.610816	0	0
AQP7P3	0	0.610816	0	0
AQP8	0.83254	0	4.018438	1.331601
AQP9	0	0.610816	0	2.219335
AQPEP	0	0	12.05531	1.331601
AQR	231.446	175.915	168.7744	184.2048
AR	33.30158	3.05408	277.2722	6.658005
ARAF	894.1475	328.0082	779.577	321.8036
ARAP1	768.434	795.2824	2611.985	1056.404
ARAP2	61.60793	63.52486	32.1475	127.3898
ARAP3	140.6992	98.34137	237.0878	178.4345
ARC	4.162698	6.718975	4.018438	14.64761
ARCN1	515.342	707.3249	538.4707	814.0521
AREG	0	15.88121	0	9.321207
ARF1	3465.862	2631.395	4368.042	2921.533
ARF3	1119.766	557.675	349.6041	665.8005
ARF4	841.6975	846.5909	1068.905	875.3058
ARF5	3984.534	2043.79	9342.868	1302.306
ARF6	506.1841	722.5953	2077.532	494.4679
ARFGAP1	2109.655	1191.702	140.6453	1034.21
ARFGAP2	843.3626	459.3336	602.7657	373.2922
ARFGAP3	183.1587	605.9294	68.31345	274.7537
ARFGEF1	209.8	247.9913	373.7147	273.4221
ARFGEF2	92.41189	204.6233	184.8482	318.6965
ARFIP1	135.704	178.9691	144.6638	153.578
ARFIP2	694.338	392.1438	867.9826	414.1279
ARFRP1	851.688	549.1235	265.2169	380.8379
ARG1	341.3412	9.773055	20.09219	15.97921
ARG2	31.6365	31.15161	0	32.40229
ARGFX	0	0	12.05531	0



ARGFXP2	2.497619	0	0	0.443867
ARGLU1	826.7118	542.4046	1374.306	600.9959
ARHGAP1	546.9785	267.5374	124.5716	298.7225
ARHGAP10	35.7992	144.7634	361.6594	136.711
ARHGAP11	131.5413	92.23321	8.036876	96.76301
ARHGAP11	0	6.10816	0	7.545739
ARHGAP12	95.74205	285.8619	132.6085	285.4065
ARHGAP15	4.995237	4.275712	112.5163	7.989606
ARHGAP17	263.0825	128.2714	297.3644	159.3483
ARHGAP18	51.61745	83.68179	241.1063	83.89087
ARHGAP19	57.44523	31.76243	24.11063	21.30562
ARHGAP19	0	0	0	0
ARHGAP20	0	0	8.036876	0
ARHGAP21	162.3452	175.3042	172.7928	234.8057
ARHGAP22	12.48809	37.87059	44.20282	33.29003
ARHGAP23	44.95714	16.49203	257.18	92.32434
ARHGAP24	27.47381	97.11974	132.6085	89.21727
ARHGAP25	42.45952	10.38387	912.1854	33.29003
ARHGAP26	462.892	431.8469	60.27657	417.6789
ARHGAP27	9.990475	14.04877	4.018438	8.87734
ARHGAP28	0	0.610816	0	0
ARHGAP29	29.97142	55.58425	156.7191	77.67673
ARHGAP30	124.0484	39.70304	353.6225	107.4158
ARHGAP31	39.9619	4.886528	44.20282	15.97921
ARHGAP32	172.3357	244.3264	52.23969	346.6601
ARHGAP33	195.6468	160.0338	32.1475	83.447
ARHGAP35	289.7238	584.5509	52.23969	376.8431
ARHGAP36	0	0	8.036876	0
ARHGAP39	333.8484	86.73587	112.5163	122.0634
ARHGAP4	43.29206	1346.849	208.9588	618.7506
ARHGAP40	6.660317	49.47609	8.036876	169.1133
ARHGAP42	8.325396	67.18975	20.09219	34.17776
ARHGAP44	52.44999	3.664896	28.12907	2.663202
ARHGAP5	44.1246	99.563	76.35032	122.5073
ARHGAP5-	22.47857	43.97875	0	36.3971
ARHGAP6	32.46904	21.37856	36.16594	21.74948
ARHGAP8	0	4.886528	0	1.775468
ARHGAP9	74.92856	10.99469	1571.209	31.95843
ARHGDIA	3683.155	1933.232	1735.965	1170.921
ARHGDIB	417.1023	1094.582	614.821	1153.167
ARHGDIG	0.83254	0	0	1.775468
ARHGEF1	1124.761	838.6503	892.0932	587.2361
ARHGEF10	287.2262	128.2714	52.23969	169.5572
ARHGEF10	687.6777	237.6074	486.231	516.2173
ARHGEF11	215.6278	215.0072	132.6085	334.2319
ARHGEF12	211.4651	501.4799	233.0694	604.9907
ARHGEF15	2.497619	4.275712	104.4794	8.87734

ARHGEF16	1785.797	1262.557	36.16594	913.4783
ARHGEF17	148.192	96.50892	108.4978	221.0458
ARHGEF18	320.5277	298.0782	68.31345	280.0801
ARHGEF19	239.7714	211.3423	16.07375	293.3961
ARHGEF2	770.0991	343.8894	221.0141	448.3057
ARHGEF25	18.31587	31.15161	401.8438	57.70271
ARHGEF26	54.11507	14.65958	4.018438	13.75988
ARHGEF26	3.330158	0.610816	0	1.775468
ARHGEF3	63.27301	65.35731	233.0694	103.421
ARHGEF33	3.330158	0	0	3.994803
ARHGEF35	4.162698	16.49203	0	18.64241
ARHGEF37	178.1635	81.23852	12.05531	119.8441
ARHGEF38	64.93809	95.28729	36.16594	121.6196
ARHGEF4	39.9619	23.82182	24.11063	23.52495
ARHGEF40	187.3214	326.1757	369.6963	344.4408
ARHGEF5	327.1881	193.0178	36.16594	134.0478
ARHGEF6	2.497619	4.275712	108.4978	17.75468
ARHGEF7	393.7912	279.7537	100.461	276.0853
ARHGEF9	186.4889	178.3583	80.36876	127.3898
ARID1A	375.4753	368.9328	1691.762	445.1986
ARID1B	133.2063	165.5311	1454.675	177.9907
ARID2	69.10078	83.68179	470.1573	75.45739
ARID3A	0	1.832448	0	4.43867
ARID3B	6.660317	20.15693	8.036876	26.63202
ARID3C	3.330158	0	8.036876	0.443867
ARID4A	38.29682	75.74118	237.0878	84.33473
ARID4B	46.62222	107.5036	293.346	171.7765
ARID5A	124.8809	49.47609	96.44251	70.57486
ARID5B	39.12936	44.58956	341.5672	69.68712
ARIH1	95.74205	227.8344	542.4891	324.4668
ARIH2	554.4714	337.1704	313.4382	433.2142
ARL1	270.5754	351.83	305.4013	327.5739
ARL10	1.665079	3.664896	28.12907	1.775468
ARL11	5.827777	10.38387	176.8113	11.98441
ARL13A	1.665079	10.38387	0	17.31081
ARL13B	21.64603	19.54611	12.05531	22.63722
ARL14	491.1984	1006.625	4.018438	620.97
ARL15	2.497619	1.832448	44.20282	2.219335
ARL16	566.1269	370.7653	88.40564	244.5707
ARL17A	0	0.610816	4.018438	1.331601
ARL17B	0	0	0	0
ARL2	190.6516	368.9328	438.0097	221.4896
ARL2-SNX1	0	0	0	0
ARL2BP	109.8952	194.2395	100.461	122.0634
ARL3	242.269	191.7962	940.3145	109.1913
ARL4A	70.76586	122.774	297.3644	83.447
ARL4C	85.75158	874.0776	811.7245	443.867

ARL4D	4.162698	7.329791	136.6269	14.64761
ARL5A	21.64603	77.57363	72.33188	59.92205
ARL5B	5.827777	20.15693	0	25.30042
ARL5C	1.665079	3.05408	0	1.331601
ARL6	13.32063	11.6055	64.29501	6.658005
ARL6IP1	846.6928	1013.954	144.6638	834.47
ARL6IP4	2626.662	1027.392	996.5726	676.8972
ARL6IP5	233.9436	596.1564	578.6551	408.8015
ARL6IP6	38.29682	111.1685	32.1475	66.58005
ARL8A	350.4992	356.7165	1008.628	364.4148
ARL8B	178.1635	149.6499	707.2451	145.5884
ARL9	26.64127	12.21632	4.018438	6.214138
ARMC1	39.9619	76.96281	96.44251	67.02392
ARMC10	69.93332	349.3867	40.18438	212.1684
ARMC12	1.665079	0	4.018438	3.107069
ARMC2	18.31587	8.551423	12.05531	9.321207
ARMC3	59.94285	9.773055	0	15.53535
ARMC4	1.665079	0.610816	4.018438	0
ARMC5	410.442	99.563	381.7516	102.5333
ARMC6	405.4468	153.3148	192.885	98.53848
ARMC7	102.4024	149.6499	24.11063	96.31914
ARMC8	203.1397	123.9956	373.7147	120.7318
ARMC9	69.10078	97.73055	60.27657	55.03951
ARMCX1	7.492856	25.65427	48.22126	37.7287
ARMCX2	59.94285	61.69241	144.6638	106.0842
ARMCX3	82.42142	210.1207	257.18	224.1528
ARMCX4	69.10078	114.8334	249.1432	147.8077
ARMCX5	23.31111	98.34137	20.09219	51.48857
ARMCX5-G	0.83254	3.05408	0	1.775468
ARMCX6	68.26825	87.34668	0	61.69752
ARMS2	0	0	0	0
ARNT	98.23967	142.9309	216.9957	198.4086
ARNT2	74.92856	2.443264	12.05531	13.75988
ARNTL	49.11984	54.36262	506.3232	63.91685
ARNTL2	183.1587	406.1926	4.018438	248.5655
ARPC1A	1482.753	1184.372	2551.708	1022.67
ARPC1B	3333.488	2868.392	14590.95	2463.906
ARPC2	2282.824	2159.234	8543.199	1702.674
ARPC3	1097.287	905.8401	578.6551	549.5074
ARPC4	2878.922	788.5634	1289.919	596.5573
ARPC4-TTL	0	0	0	0
ARPC5	830.042	909.505	2547.69	712.4066
ARPC5L	1232.159	346.9435	908.167	362.1955
ARPM1	23.31111	14.04877	12.05531	19.08628
ARPP19	145.6944	301.7431	642.9501	355.0936
ARPP21	0	0	24.11063	0
ARR3	3.330158	1.832448	4.018438	0.887734

ARRB1	515.342	304.7972	56.25813	213.9439
ARRB2	283.0635	503.3123	1772.131	513.5541
ARRDC1	2640.816	811.7744	478.1941	688.4377
ARRDC2	584.4428	289.5268	20.09219	333.3441
ARRDC3	50.78491	94.06566	309.4197	157.1289
ARRDC4	97.40713	9.773055	148.6822	40.3919
ARRDC5	0	1.221632	0	1.775468
ARSA	315.5325	1108.02	84.3872	477.6009
ARSB	13.32063	47.03283	48.22126	70.13099
ARSD	240.6039	486.8203	44.20282	423.893
ARSE	114.8905	214.3964	8.036876	120.288
ARSF	0	0	0	0
ARSG	0	1.221632	28.12907	8.87734
ARSH	0	5.497344	0	2.219335
ARSI	0.83254	8.551423	128.59	22.19335
ARSJ	26.64127	90.40076	20.09219	80.7838
ARSK	7.492856	9.162239	28.12907	18.19855
ART1	0	0.610816	60.27657	0.443867
ART3	0	0.610816	0	1.331601
ART4	0	0.610816	0	0.887734
ART5	0	0.610816	4.018438	0.443867
ARTN	8.325396	4.275712	12.05531	9.321207
ARV1	89.08173	121.5524	12.05531	106.972
ARVCF	154.0198	191.7962	112.5163	203.2911
ARX	3.330158	0	36.16594	0
AS3MT	0	0	0	0.443867
ASAH1	83.25396	800.1689	357.641	708.8556
ASAH2	0	0	12.05531	1.775468
ASAH2B	0	0.610816	0	1.775468
ASAP1	62.44047	70.24383	221.0141	144.2568
ASAP1-IT1	0	1.221632	0	0
ASAP2	233.9436	208.8991	164.756	257.8867
ASAP3	178.996	20.76774	28.12907	67.02392
ASB1	296.3841	245.548	16.07375	242.7953
ASB10	0	0	40.18438	0
ASB11	0.83254	0	32.1475	0
ASB12	12.48809	0	4.018438	0
ASB13	338.8436	335.9488	40.18438	228.1476
ASB14	7.492856	2.443264	4.018438	1.775468
ASB15	0.83254	1.221632	8.036876	0
ASB16	0	9.773055	4.018438	12.87214
ASB17	0	4.886528	0	1.331601
ASB18	0	0	4.018438	0
ASB2	6.660317	2.443264	60.27657	5.326404
ASB3	3.330158	3.05408	0	4.882537
ASB4	0	3.05408	20.09219	5.326404
ASB5	0	0	44.20282	0.887734

ASB6	627.7348	168.5852	60.27657	228.5915
ASB7	59.11031	64.74649	48.22126	94.98754
ASB8	94.07697	77.57363	88.40564	65.24845
ASB9	2.497619	17.71366	0	11.98441
ASB9P1	0.83254	3.05408	0	1.331601
ASCC1	66.60317	235.1641	172.7928	189.5312
ASCC2	596.9309	532.0207	281.2907	418.5666
ASCC3	119.0532	124.6065	92.42408	95.87528
ASCL1	0	0	28.12907	0.443867
ASCL2	1.665079	1.221632	12.05531	0
ASCL3	0	0	0	0
ASCL4	0	0	4.018438	0.443867
ASF1A	30.80396	63.52486	237.0878	55.48338
ASF1B	528.6626	193.6287	44.20282	173.1081
ASGR1	20.81349	3.05408	257.18	6.658005
ASGR2	1.665079	2.443264	36.16594	14.64761
ASH1L	120.7182	196.6827	409.8807	261.4377
ASH2L	260.5849	239.4399	562.5813	165.1185
ASIP	4.162698	1.221632	8.036876	3.550936
ASL	2439.341	1657.754	574.6366	1236.614
ASMT	0	0	0	0
ASMTL	0	0	0	0
ASMTL-AS:	0	0	0	0
ASNA1	374.6428	356.7165	1097.034	260.1061
ASNS	571.9547	66.57894	164.756	71.01872
ASNSD1	155.6849	199.7368	550.526	139.3742
ASPA	0	0	24.11063	0.443867
ASPDH	0	1.832448	8.036876	7.989606
ASPG	19.14841	0.610816	4.018438	0.887734
ASPH	969.0761	1423.812	140.6453	1604.579
ASPHD1	1017.363	864.9154	32.1475	690.6571
ASPHD2	129.0436	36.64896	56.25813	27.96362
ASPM	66.60317	156.3689	12.05531	98.09461
ASPN	4.162698	28.70835	88.40564	16.42308
ASPRV1	31.6365	1.832448	8.036876	8.87734
ASPSCR1	567.792	275.478	667.0607	212.6123
ASRGL1	407.1119	568.6697	100.461	450.0812
ASS1	2271.168	191.1854	76.35032	478.9325
ASTE1	70.76586	29.31917	20.09219	23.08108
ASTL	0.83254	0	16.07375	2.663202
ASTN1	0	0	12.05531	0
ASTN2	11.65555	10.38387	20.09219	4.882537
ASUN	153.1873	303.5755	172.7928	197.5208
ASXL1	460.3944	408.0251	313.4382	605.4346
ASXL2	32.46904	34.81651	160.7375	49.26924
ASXL3	0	1.221632	16.07375	1.775468
ASZ1	0	0	0	0

ATAD1	109.8952	101.3954	88.40564	76.34513
ATAD2	208.9674	195.4611	44.20282	185.0925
ATAD2B	23.31111	41.53548	168.7744	48.82537
ATAD3A	793.4102	329.2298	80.36876	265.4325
ATAD3B	1302.092	328.619	4.018438	364.8587
ATAD3C	1.665079	67.18975	0	53.26404
ATAD5	14.15317	30.5408	8.036876	29.73909
ATAT1	0	0	0	0
ATCAY	0	0	8.036876	0
ATE1	18.31587	14.04877	16.07375	15.97921
ATF1	21.64603	37.25977	120.5531	52.37631
ATF2	41.62698	145.3742	184.8482	146.92
ATF3	155.6849	43.36793	574.6366	57.70271
ATF4	4456.584	2037.682	912.1854	1282.776
ATF5	241.4365	228.4452	1518.97	202.4034
ATF6	157.35	374.4302	20.09219	247.6778
ATF6B	14.15317	6.718975	0	7.545739
ATF7	89.91427	87.9575	100.461	106.5281
ATF7IP	55.78015	102.6171	116.5347	159.3483
ATF7IP2	86.58412	54.97344	0	40.3919
ATG10	23.31111	57.4167	44.20282	24.85655
ATG12	150.6897	123.9956	28.12907	78.1206
ATG13	743.4578	265.0941	116.5347	308.9314
ATG14	98.23967	113.001	40.18438	139.8181
ATG16L1	268.9103	334.1163	221.0141	379.5063
ATG16L2	383.8007	226.6127	188.8666	215.7194
ATG2A	442.0785	313.9594	192.885	407.4699
ATG2B	67.43571	112.3901	44.20282	162.0115
ATG3	446.2412	306.0188	1012.646	233.9179
ATG4A	96.57459	89.17913	124.5716	100.3139
ATG4B	890.8173	827.6556	212.9772	794.0781
ATG4C	9.990475	29.31917	32.1475	14.20374
ATG4D	171.5032	66.57894	216.9957	77.67673
ATG5	119.8857	161.8662	221.0141	127.3898
ATG7	288.8912	123.9956	313.4382	90.105
ATG9A	809.2285	526.5234	120.5531	574.3639
ATG9B	57.44523	4.275712	8.036876	21.74948
ATHL1	2172.096	1726.777	293.346	2311.659
ATIC	769.2666	981.5812	176.8113	641.8317
ATL1	21.64603	51.91936	44.20282	55.48338
ATL2	69.93332	161.8662	212.9772	198.8524
ATL3	98.23967	216.2288	104.4794	168.2256
ATM	26.64127	136.8228	24.11063	195.7454
ATMIN	144.8619	151.4824	48.22126	126.5021
ATN1	1442.791	684.7247	550.526	882.4076
ATOH1	12.48809	0.610816	12.05531	0
ATOH7	9.157935	0.610816	4.018438	4.882537

ATOH8	1.665079	1.832448	44.20282	2.663202
ATOX1	675.1896	363.4355	1868.574	269.4273
ATP10A	3.330158	1.221632	28.12907	3.994803
ATP10B	475.3801	31.76243	28.12907	103.8649
ATP10D	19.98095	23.82182	32.1475	52.37631
ATP11A	290.5563	384.8141	24.11063	407.9138
ATP11B	199.8095	168.5852	84.3872	146.4761
ATP11C	22.47857	16.49203	28.12907	16.86695
ATP12A	0	0.610816	12.05531	1.331601
ATP13A1	873.334	336.5596	703.2267	473.6061
ATP13A2	482.873	498.4258	900.1301	449.6373
ATP13A3	168.173	167.3636	156.7191	190.419
ATP13A4	70.76586	177.7474	4.018438	218.8264
ATP13A5	0	3.664896	4.018438	3.550936
ATP1A1	4911.984	7095.238	2925.423	4753.372
ATP1A1OS	7.492856	49.47609	0	26.63202
ATP1A2	11.65555	6.718975	638.9316	27.96362
ATP1A3	66.60317	6.10816	225.0325	19.53015
ATP1A4	4.162698	3.664896	120.5531	16.86695
ATP1B1	1464.437	2347.366	212.9772	1536.224
ATP1B2	0	2.443264	24.11063	4.43867
ATP1B3	1133.919	1002.349	546.5076	291.6206
ATP1B4	0	2.443264	16.07375	0
ATP2A1	49.11984	15.88121	5529.371	20.41788
ATP2A2	495.361	517.9719	783.5954	719.5084
ATP2A3	731.8023	50.69772	184.8482	154.4657
ATP2B1	113.2254	196.6827	614.821	177.9907
ATP2B2	0.83254	0	48.22126	1.331601
ATP2B3	1.665079	3.05408	80.36876	0.887734
ATP2B4	136.5365	229.6668	128.59	385.2766
ATP2C1	350.4992	334.1163	353.6225	375.0676
ATP2C2	628.5674	75.13036	4.018438	173.9959
ATP4A	2.497619	0.610816	60.27657	2.663202
ATP4B	0	0	4.018438	0.443867
ATP5A1	1264.628	1621.716	3347.359	1339.147
ATP5B	4807.916	2262.462	11384.23	1841.604
ATP5C1	1302.924	1688.906	1603.357	989.8235
ATP5D	2430.183	597.9888	337.5488	399.9242
ATP5E	774.2618	904.6184	24.11063	455.8514
ATP5EP2	12.48809	9.773055	24.11063	3.107069
ATP5F1	703.4959	741.5306	703.2267	429.6633
ATP5G1	868.3388	516.7503	932.2776	269.4273
ATP5G2	2960.511	1333.411	3725.092	908.5958
ATP5G3	2121.311	1549.029	10881.93	1181.574
ATP5H	1238.819	1447.023	851.9089	688.8816
ATP5I	3509.987	888.1264	16.07375	743.0334
ATP5J	565.2944	287.0835	876.0195	224.5967

ATP5J2	789.2475	651.7406	361.6594	438.5406
ATP5J2-PTI	0	0	0	0
ATP5L	2512.604	1551.473	3415.672	928.5698
ATP5L2	0.83254	0.610816	0	0
ATP5O	1787.462	738.4765	293.346	387.9398
ATP5S	34.13412	46.42201	36.16594	19.53015
ATP5SL	223.9531	445.8956	44.20282	205.5104
ATP6AP1	698.5007	1277.827	582.6735	1080.816
ATP6AP1L	26.64127	12.21632	0	17.31081
ATP6AP2	110.7278	200.9584	397.8254	229.4792
ATP6VOA1	812.5586	585.1617	1675.689	595.2257
ATP6VOA2	124.0484	47.03283	60.27657	45.27444
ATP6VOA4	4.162698	27.48672	8.036876	60.80978
ATP6VOB	3644.026	1251.562	6578.183	1476.302
ATP6VOC	2729.897	929.6619	3809.479	1336.927
ATP6VOCP	9.157935	3.05408	104.4794	2.663202
ATP6VOD1	902.4729	463.6093	1679.707	502.4575
ATP6VOD2	67.43571	3.05408	1635.504	7.545739
ATP6VOE1	880.8269	1012.733	936.2961	963.6353
ATP6VOE2	243.9341	214.3964	24.11063	191.7506
ATP6V1A	163.1778	116.6658	257.18	159.3483
ATP6V1B1	11.65555	0.610816	84.3872	1.775468
ATP6V1B2	301.3793	276.0888	3913.959	297.3909
ATP6V1C1	338.8436	247.9913	936.2961	230.367
ATP6V1C2	22.47857	60.47078	4.018438	79.89606
ATP6V1D	245.5992	384.8141	872.0011	304.9366
ATP6V1E1	929.9467	974.2514	1414.49	541.5178
ATP6V1E2	15.81825	22.60019	64.29501	22.63722
ATP6V1F	899.9753	803.223	3837.608	667.1321
ATP6V1G1	679.3523	429.4036	6007.565	546.4003
ATP6V1G2	0	0	0	0
ATP6V1G2	0	0	0	0
ATP6V1G3	0	0	0	0
ATP6V1H	403.7817	229.056	1583.265	213.0562
ATP7A	9.157935	80.62771	20.09219	59.92205
ATP7B	208.1349	208.8991	12.05531	63.02912
ATP8A1	83.25396	16.49203	76.35032	14.20374
ATP8A2	0	0.610816	24.11063	1.331601
ATP8B1	65.77063	182.0232	68.31345	258.7745
ATP8B2	9.990475	18.32448	257.18	54.59564
ATP8B3	0.83254	10.38387	4.018438	20.41788
ATP8B4	4.162698	2.443264	4.018438	3.550936
ATP8B5P	15.81825	82.46015	84.3872	85.66633
ATP9A	296.3841	524.0801	277.2722	410.1331
ATP9B	80.75634	77.57363	132.6085	76.78899
ATPAF1	168.173	201.5693	24.11063	137.5988
ATPAF1-AS	4.162698	0	4.018438	0.887734



ATPAF2	65.77063	64.13568	241.1063	79.00833
ATPBD4	69.10078	52.53017	12.05531	39.0603
ATPIF1	3333.488	1429.309	80.36876	928.5698
ATR	320.5277	163.0879	321.475	161.5676
ATRIP	130.7087	69.0222	100.461	52.37631
ATRN	81.58888	312.127	100.461	286.2942
ATRN1L	0	5.497344	124.5716	4.882537
ATRX	69.10078	172.2501	397.8254	187.7557
ATXN1	28.30635	36.64896	132.6085	28.40749
ATXN10	96.57459	767.7957	397.8254	312.4824
ATXN1L	126.546	167.3636	225.0325	226.816
ATXN2	193.9817	69.63302	843.872	98.98235
ATXN2L	729.3047	492.9285	867.9826	812.2766
ATXN3	21.64603	73.90873	52.23969	50.15697
ATXN3L	0	0	0	0
ATXN7	79.9238	44.58956	148.6822	73.68193
ATXN7L1	24.14365	36.03814	184.8482	55.48338
ATXN7L2	84.0865	30.5408	112.5163	31.51456
ATXN7L3	295.5516	473.3824	646.9685	453.1882
ATXN7L3B	866.6737	391.533	349.6041	343.9969
ATXN8OS	0	0.610816	0	0
AUH	48.2873	61.69241	216.9957	56.81498
AUP1	1861.558	1175.21	2620.022	1092.801
AURKA	200.642	145.985	12.05531	134.9356
AURKAIP1	2222.881	1068.317	470.1573	840.6841
AURKAPS1	4.995237	3.05408	0	4.882537
AURKB	371.3127	150.2607	32.1475	126.946
AURKC	39.9619	7.940607	8.036876	22.63722
AUTS2	62.44047	2.443264	108.4978	3.107069
AVEN	242.269	78.79526	32.1475	61.25365
AVIL	14.98571	4.886528	28.12907	31.07069
AVL9	84.0865	114.2226	32.1475	112.2984
AVP	0	0	8.036876	0
AVPI1	156.5174	29.31917	92.42408	43.49897
AVPR1A	0	1.221632	4.018438	1.331601
AVPR1B	0	0.610816	4.018438	0.887734
AVPR2	0	20.76774	0	10.65281
AWAT1	0	0	4.018438	0
AWAT2	0	1.221632	4.018438	3.550936
AXDND1	243.1016	3.664896	0	1.775468
AXIN1	528.6626	336.5596	136.6269	343.1092
AXIN2	6.660317	1.832448	48.22126	16.42308
AXL	39.9619	164.9203	815.7429	295.6154
AZGP1	1006.54	522.8585	12.05531	1150.947
AZGP1P1	0	0	0	0.887734
AZI1	317.1976	263.2617	148.6822	209.0614
AZI2	95.74205	103.2279	172.7928	102.0894

AZIN1	256.4222	274.8672	630.8948	251.2287
AZU1	0.83254	0	0	0
B2M	6811.839	12180.28	2117.717	14371.08
B3GALNT1	28.30635	43.36793	96.44251	54.15178
B3GALNT2	88.2492	59.85996	20.09219	90.105
B3GALT1	0.83254	0	0	0
B3GALT2	0	3.664896	0	0.443867
B3GALT4	0	0	0	0
B3GALT5	65.77063	55.58425	12.05531	43.49897
B3GALT6	253.9246	291.97	48.22126	232.5863
B3GALTL	54.94761	16.49203	32.1475	22.63722
B3GAT1	11.65555	0	0	0
B3GAT2	0	0	12.05531	0
B3GAT3	754.2809	470.9391	558.5629	319.1404
B3GNT1	136.5365	105.6712	253.1616	116.2932
B3GNT2	52.44999	81.23852	100.461	86.55407
B3GNT3	553.6388	1327.303	8.036876	995.5937
B3GNT4	19.14841	0.610816	4.018438	0.887734
B3GNT5	54.94761	34.20569	4.018438	55.48338
B3GNT6	0	3.05408	0	3.550936
B3GNT7	94.90951	128.2714	12.05531	171.3327
B3GNT8	29.97142	43.36793	64.29501	28.85136
B3GNT9	22.47857	28.70835	8.036876	72.79419
B3GNTL1	89.08173	122.774	16.07375	78.1206
B4GALNT1	60.77539	20.76774	554.5445	46.60604
B4GALNT2	1.665079	0.610816	4.018438	3.550936
B4GALNT3	133.2063	378.7059	12.05531	306.7121
B4GALNT4	9.157935	31.15161	40.18438	67.91165
B4GALT1	665.1991	1507.494	265.2169	1578.391
B4GALT2	888.3197	387.2573	341.5672	356.8691
B4GALT3	479.5428	327.3974	506.3232	391.9346
B4GALT4	704.3285	808.1095	36.16594	258.7745
B4GALT5	286.3936	656.6272	100.461	620.0822
B4GALT6	24.97619	2.443264	108.4978	8.433473
B4GALT7	421.265	446.5065	48.22126	386.1643
B7H6	2.497619	1.832448	0	11.98441
B9D1	228.1158	78.79526	96.44251	64.36072
B9D2	260.5849	45.20038	172.7928	49.71311
BAALC	0.83254	0.610816	12.05531	0.887734
BAAT	33.30158	157.5905	0	205.9543
BABAM1	788.415	477.0473	582.6735	402.1435
BACE1	58.27777	76.96281	184.8482	145.1445
BACE1-AS	2.497619	4.275712	0	5.326404
BACE2	1692.553	470.9391	249.1432	736.3754
BACH1	42.45952	46.42201	32.1475	75.90126
BACH2	6.660317	4.275712	96.44251	9.321207
BAD	1083.967	504.534	128.59	399.4803

BAG1	1116.436	935.1592	3343.34	656.9232
BAG2	0	15.88121	0	27.96362
BAG3	213.1301	116.055	566.5998	185.5364
BAG4	29.13889	31.15161	56.25813	30.62682
BAG5	136.5365	226.6127	341.5672	283.1872
BAG6	0	0	0	0
BAGE	0	0	0	0
BAGE2	0	0	0	0
BAGE3	0	0	0	0
BAGE4	0	0	0	0
BAGE5	0	0	0	0
BAHCC1	0	202.1801	40.18438	462.9533
BAHD1	178.996	160.0338	237.0878	211.7246
BAI1	4.162698	37.87059	4.018438	102.5333
BAI2	11.65555	6.718975	88.40564	20.86175
BAI3	0.83254	0	8.036876	0
BAIAP2	591.9356	519.8044	216.9957	333.788
BAIAP2L1	1632.61	1498.942	20.09219	961.416
BAIAP2L2	2218.718	999.2949	32.1475	653.8161
BAIAP3	161.5127	29.92998	32.1475	34.62163
BAK1	177.3309	99.563	12.05531	87.88567
BAMBI	65.77063	1856.88	164.756	619.6384
BANF1	577.7825	777.5687	112.5163	444.7548
BANF2	0	0	0	0
BANK1	11.65555	7.329791	4.018438	24.85655
BANP	77.42618	72.07628	48.22126	89.66114
BAP1	693.5055	370.1545	204.9403	411.0209
BARD1	4.162698	16.49203	0	24.85655
BARHL1	0	0	4.018438	0.443867
BARHL2	0	0	8.036876	0
BARX1	0.83254	0	12.05531	0.443867
BARX2	64.93809	227.2235	4.018438	118.9564
BASP1	119.0532	60.47078	638.9316	165.5624
BASP1P1	4.995237	1.221632	4.018438	4.43867
BATF	126.546	177.1366	160.7375	164.6747
BATF2	68.26825	47.03283	24.11063	63.02912
BATF3	29.97142	3.05408	192.885	6.658005
BAX	1509.394	787.9526	3315.211	566.8182
BAZ1A	258.0873	200.3476	285.3091	273.866
BAZ1B	218.9579	345.7218	216.9957	434.1019
BAZ2A	286.3936	199.7368	257.18	353.3181
BAZ2B	77.42618	161.8662	490.2494	161.1237
BBC3	334.6809	84.90342	249.1432	66.58005
BBIP1	52.44999	28.09753	68.31345	27.51976
BBOX1	0	9.773055	8.036876	19.08628
BBS1	115.723	193.0178	24.11063	189.0873
BBS10	6.660317	12.21632	4.018438	19.97402

BBS12	30.80396	26.26509	4.018438	19.08628
BBS2	120.7182	205.845	56.25813	144.7006
BBS4	24.14365	174.6934	56.25813	160.6799
BBS5	22.47857	29.31917	84.3872	30.18296
BBS7	54.94761	37.25977	60.27657	23.52495
BBS9	9.157935	37.25977	48.22126	33.29003
BBX	157.35	92.23321	80.36876	137.1549
BCAM	107.3976	1038.387	225.0325	814.9398
BCAN	61.60793	29.31917	20.09219	35.50936
BCAP29	167.3405	216.8397	12.05531	146.4761
BCAP31	2777.352	4415.589	634.9132	2253.513
BCAR1	1241.317	1147.723	196.9035	988.4918
BCAR3	113.2254	249.2129	80.36876	148.6955
BCAR4	0	0	0	0
BCAS1	398.7865	405.5818	36.16594	347.5479
BCAS2	69.10078	148.4283	233.0694	110.9668
BCAS3	29.97142	98.34137	116.5347	75.45739
BCAS4	12.48809	74.51955	0	36.84096
BCAT1	0.83254	0.610816	32.1475	2.663202
BCAT2	552.8063	336.5596	216.9957	153.1341
BCCIP	274.7381	282.8078	269.2353	163.3431
BCDIN3D	28.30635	32.98406	0	18.64241
BCHE	0	0	4.018438	0
BCKDHA	446.2412	366.4896	956.3883	282.7433
BCKDHB	49.95237	67.18975	116.5347	44.83057
BCKDK	387.9634	361.603	1310.011	356.8691
BCL10	114.8905	94.67647	72.33188	87.88567
BCL11A	0.83254	2.443264	68.31345	2.219335
BCL11B	71.5984	16.49203	100.461	23.52495
BCL2	6.660317	7.940607	140.6453	8.87734
BCL2A1	230.6135	36.64896	1522.988	46.16217
BCL2L1	1839.08	2360.193	1735.965	2078.629
BCL2L10	0	12.21632	0	14.64761
BCL2L11	94.90951	65.35731	269.2353	113.63
BCL2L12	353.8293	393.3655	8.036876	167.3379
BCL2L13	193.9817	331.0622	20.09219	256.1113
BCL2L14	99.07221	288.3051	4.018438	76.78899
BCL2L15	783.4197	260.2076	8.036876	221.9335
BCL2L2	333.8484	197.9044	285.3091	207.2859
BCL2L2-PA	0	0	0	0
BCL3	737.6301	306.6296	152.7006	337.7828
BCL6	233.9436	153.3148	594.7288	302.7173
BCL6B	9.157935	6.10816	28.12907	8.433473
BCL7A	43.29206	43.97875	16.07375	51.04471
BCL7B	360.4896	484.9879	281.2907	344.4408
BCL7C	807.5634	448.9497	2632.077	245.0146
BCL9	75.7611	78.79526	221.0141	122.0634

BCL9L	297.2166	550.956	221.0141	644.051
BCLAF1	218.1254	251.0454	996.5726	250.341
BCMO1	9.990475	6.10816	4.018438	3.994803
BCO2	59.11031	239.4399	136.6269	174.8836
BCOR	59.94285	78.18444	144.6638	89.66114
BCORL1	20.81349	87.34668	104.4794	80.33993
BCORP1	0	0	0	0
BCR	616.0793	809.942	60.27657	528.6456
BCRP2	0	0	0	0.443867
BCRP3	0	4.275712	0	10.65281
BCS1L	321.3603	351.83	253.1616	215.7194
BCYRN1	0	0	0	0
BDAG1	0	0	0	0
BDH1	576.9499	277.3104	16.07375	201.9595
BDH2	380.4706	175.915	28.12907	205.9543
BDKRB1	40.79444	6.718975	0	22.63722
BDKRB2	89.91427	65.96812	4.018438	98.53848
BDNF	0	2.443264	16.07375	4.882537
BDNF-AS1	2.497619	3.664896	0	7.989606
BDP1	31.6365	54.97344	4.018438	82.55927
BEAN1	9.157935	166.1419	16.07375	56.81498
BECN1	117.3881	304.1863	1273.845	268.9834
BEGAIN	11.65555	8.551423	0	8.433473
BEND2	0	0	0	0
BEND3	52.44999	37.25977	40.18438	27.96362
BEND4	0	0.610816	16.07375	1.775468
BEND5	8.325396	3.05408	44.20282	3.550936
BEND6	0	0.610816	12.05531	0.887734
BEND7	94.07697	8.551423	0	12.87214
BEST1	0	4.275712	16.07375	35.06549
BEST2	0	0	8.036876	1.331601
BEST3	0	4.275712	8.036876	2.219335
BEST4	57.44523	10.38387	0	15.53535
BET1	43.29206	98.34137	233.0694	92.32434
BET1L	670.1944	315.7918	124.5716	341.7776
BET3L	0	0	0	0
BEX1	0	0.610816	4.018438	0
BEX2	9.990475	10.38387	0	22.63722
BEX4	0.83254	0	0	0
BEX5	24.14365	0.610816	0	0.443867
BFAR	227.2833	318.2351	148.6822	211.2807
BFSP1	11.65555	57.4167	8.036876	22.19335
BFSP2	10.82301	0	4.018438	0.887734
BGLAP	0	0.610816	0	2.219335
BGN	59.94285	160.0338	634.9132	810.0573
BHLHA15	0	1.221632	0	7.545739
BHLHA9	0	0	0	0

BHLHB9	17.48333	21.37856	44.20282	16.42308
BHLHE22	1.665079	1.832448	100.461	8.87734
BHLHE23	0	0	0	0
BHLHE40	799.238	321.9	433.9913	416.7911
BHLHE41	176.4984	613.87	164.756	414.1279
BHMT	0	0	12.05531	0
BHMT2	0	0	0	0.443867
BICC1	14.98571	173.4717	88.40564	193.9699
BICD1	20.81349	40.31385	44.20282	38.61643
BICD2	75.7611	100.7846	285.3091	130.4969
BID	691.8404	924.1645	8.036876	552.6144
BIK	584.4428	207.0666	4.018438	152.2464
BIN1	707.6586	1114.128	1989.127	909.9274
BIN2	1.665079	3.664896	40.18438	11.09668
BIN3	305.542	253.4886	333.5304	224.1528
BIRC2	161.5127	375.041	361.6594	283.1872
BIRC3	494.5285	692.0545	68.31345	788.7517
BIRC5	974.9038	445.2848	52.23969	229.0354
BIRC6	159.8476	275.478	365.6779	374.6238
BIRC7	21.64603	4.275712	0	3.994803
BIRC8	0	0	0	0
BIVM	22.47857	28.09753	20.09219	15.09148
BIVM-ERCC	0	0	0	0
BK250D10	9.990475	2.443264	0	2.219335
BLCAP	1991.435	500.8691	474.1757	670.2392
BLID	0	0	0	0
BLK	0	0	24.11063	0
BLM	54.11507	62.30323	28.12907	40.83577
BLMH	30.80396	92.23321	417.9176	90.54887
BLNK	89.91427	28.70835	663.0423	39.94803
BLOC1S1	470.3849	138.6552	980.4989	91.88047
BLOC1S1-R	0	0	0	0
BLOC1S2	176.4984	129.493	317.4566	101.2017
BLOC1S3	110.7278	120.9416	28.12907	105.1965
BLVRA	31.6365	144.7634	514.3601	205.0666
BLVRB	973.2388	1108.02	3660.797	449.1934
BLZF1	26.64127	86.73587	56.25813	77.23286
BMF	25.80873	28.09753	68.31345	161.5676
BMI1	0.83254	2.443264	28.12907	7.989606
BMP1	288.8912	402.5277	1442.619	727.0542
BMP10	0	0	0	0
BMP15	0	0	4.018438	0
BMP2	132.3738	186.2989	32.1475	165.5624
BMP2K	19.14841	33.59488	112.5163	41.27963
BMP3	0	4.275712	12.05531	11.98441
BMP4	383.8007	174.6934	112.5163	144.2568
BMP5	0	0	4.018438	0.443867

BMP6	0.83254	2.443264	68.31345	3.994803
BMP7	12.48809	0.610816	72.33188	2.219335
BMP8A	4.995237	0.610816	4.018438	3.550936
BMP8B	6.660317	5.497344	4.018438	4.43867
BMPER	0	4.275712	48.22126	4.43867
BMPR1A	1.665079	14.04877	8.036876	13.31601
BMPR1B	19.14841	91.01158	8.036876	90.105
BMPR2	114.0579	176.5258	590.7104	195.3015
BMS1	527.8301	406.1926	156.7191	390.603
BMS1P1	0	0	0	0
BMS1P4	6.660317	15.2704	0	19.97402
BMS1P5	0	0	0	0
BMX	0.83254	2.443264	56.25813	3.550936
BNC1	0	0.610816	4.018438	0
BNC2	4.995237	4.275712	104.4794	13.75988
BNIP1	164.8428	134.9903	136.6269	81.67153
BNIP2	74.09602	142.3201	313.4382	152.2464
BNIP3	13.32063	8.551423	76.35032	24.85655
BNIP3L	135.704	218.0613	1076.941	266.7641
BNIPL	5.827777	3.664896	8.036876	10.20894
BOC	0.83254	4.275712	24.11063	4.43867
BOD1	190.6516	351.2192	261.1985	178.8784
BOD1L	52.44999	136.212	124.5716	217.051
BOD1P	0	1.221632	24.11063	0.887734
BOK	489.5333	491.096	120.5531	333.3441
BOK-AS1	1.665079	1.221632	0	0.887734
BOLA1	164.8428	194.2395	337.5488	164.6747
BOLA2	0	0	0	0
BOLA2B	0	0	0	0
BOLA3	88.2492	183.8556	88.40564	88.32954
BOLA3-AS1	0.83254	4.275712	0	0.887734
BOLL	0	0.610816	0	0
BOP1	480.3753	222.9478	60.27657	118.0686
BORA	56.61269	61.0816	4.018438	52.82018
BPESC1	0	0	0	0
BPGM	76.59364	140.4877	56.25813	290.7329
BPHL	76.59364	211.3423	64.29501	107.8597
BPI	0	0	0	0.443867
BPIFA1	0	0	0	0.887734
BPIFA2	1.665079	0	0	0.887734
BPIFA3	0	0	0	0
BPIFA4P	0	0	0	0
BPIFB1	750.9507	20.76774	12.05531	88.7734
BPIFB2	0	0.610816	0	0
BPIFB3	0	0	0	0
BPIFB4	0	0.610816	4.018438	0
BPIFB6	0	0	0	0.443867

BPIFC	0.83254	0	0	0
BPNT1	321.3603	526.5234	24.11063	400.8119
BPTF	183.9912	197.2936	522.3969	188.1996
BPY2	0	0	0	0
BPY2B	0	0	0	0
BPY2C	0	0	0	0
BRAF	13.32063	25.04345	8.036876	19.97402
BRAP	124.8809	80.01689	172.7928	77.23286
BRAT1	879.9943	718.9304	44.20282	494.4679
BRCA1	42.45952	105.6712	4.018438	63.47298
BRCA2	14.98571	15.2704	0	23.52495
BRCC3	44.95714	170.4177	96.44251	106.972
BRD1	124.8809	262.04	421.936	241.4637
BRD2	35.7992	18.32448	16.07375	20.86175
BRD3	131.5413	78.18444	257.18	99.42621
BRD4	263.0825	164.3095	606.7841	216.6071
BRD7	196.4793	230.8884	96.44251	130.053
BRD7P3	0.83254	0	20.09219	0.887734
BRD8	502.0214	222.9478	462.1204	296.0593
BRD9	412.9396	273.0347	80.36876	331.1248
BRDT	9.157935	1.221632	36.16594	1.331601
BRE	303.0444	277.9213	819.7614	210.8368
BREA2	29.97142	0.610816	0	4.43867
BRF1	340.5087	362.2139	148.6822	319.1404
BRF2	136.5365	107.5036	64.29501	75.01353
BRI3	659.3713	649.2974	1213.568	501.1259
BRI3BP	84.91904	69.0222	112.5163	50.60084
BRIP1	9.157935	23.82182	12.05531	32.84616
BRIX1	167.3405	348.1651	393.8069	180.21
BRK1	1233.824	1141.004	2748.612	712.8504
BRMS1	1628.447	814.8285	510.3416	518.8805
BRMS1L	4.995237	17.71366	108.4978	42.16737
BROX	15.81825	31.76243	36.16594	51.93244
BRP44	481.2079	1155.664	1024.702	466.5042
BRP44L	218.9579	97.73055	353.6225	127.3898
BRPF1	188.1539	111.1685	618.8395	161.1237
BRPF3	70.76586	169.8068	132.6085	256.5551
BRS3	0	0	0	0
BRSK1	24.14365	52.53017	180.8297	41.7235
BRSK2	6.660317	11.6055	8.036876	23.52495
BRWD1	119.0532	116.6658	168.7744	193.0822
BRWD1-IT	4.162698	7.329791	0	7.989606
BRWD3	34.13412	83.07097	56.25813	80.33993
BSCL2	7.492856	18.32448	0	15.53535
BSDC1	353.8293	348.7759	92.42408	352.4304
BSG	5413.172	1977.211	442.0282	2232.207
BSN	11.65555	7.940607	168.7744	7.989606



BSN-AS2	0	0	0	0.443867
BSND	0	0	0	0
BSPH1	0	0	0	0
BSPRY	449.5714	268.1482	28.12907	197.5208
BST1	32.46904	255.9319	28.12907	245.0146
BST2	5450.637	608.9835	24.11063	921.0241
BSX	0	0	0	0
BTAF1	125.7135	76.96281	212.9772	138.9304
BTBD1	98.23967	182.0232	936.2961	185.0925
BTBD10	109.0627	91.01158	68.31345	78.1206
BTBD11	4.995237	3.05408	32.1475	7.545739
BTBD16	34.13412	11.6055	0	7.101872
BTBD17	14.15317	0.610816	68.31345	0
BTBD18	4.162698	0	12.05531	1.331601
BTBD19	3.330158	3.05408	8.036876	32.84616
BTBD2	633.5626	425.7387	116.5347	308.9314
BTBD3	152.3547	95.28729	196.9035	101.2017
BTBD6	4.995237	5.497344	52.23969	10.20894
BTBD7	79.09126	144.1526	148.6822	131.3846
BTBD8	0	1.221632	8.036876	0.443867
BTBD9	60.77539	102.6171	36.16594	71.46259
BTC	5.827777	10.38387	0	11.09668
BTD	53.28253	64.13568	176.8113	75.45739
BTF3	2386.058	1442.136	3078.124	784.313
BTF3L4	88.2492	74.51955	277.2722	54.59564
BTF3P11	21.64603	9.162239	273.2538	7.545739
BTG1	1248.809	771.4605	3962.18	674.6779
BTG2	289.7238	37.87059	293.346	59.47818
BTG3	148.192	164.3095	221.0141	126.946
BTG4	0	0	0	0.443867
BTK	29.13889	10.99469	325.4935	35.50936
BTLA	0	0	0	0.443867
BTN1A1	0	0	12.05531	0.887734
BTN2A1	149.8571	232.1101	20.09219	245.4585
BTN2A2	36.63174	50.08691	4.018438	63.47298
BTN2A3P	3.330158	4.886528	4.018438	13.31601
BTN3A1	58.27777	94.06566	4.018438	165.1185
BTN3A2	165.6754	193.0178	8.036876	207.2859
BTN3A3	38.29682	56.80588	4.018438	153.1341
BTNL2	0	0	0	0
BTNL3	238.9389	0	0	0
BTNL8	273.073	2.443264	0	0
BTNL9	94.07697	18.32448	16.07375	8.87734
BTRC	51.61745	88.56831	152.7006	93.21207
BUB1	79.09126	119.7199	0	59.47818
BUB1B	94.90951	110.5577	4.018438	121.6196
BUB3	564.4618	441.6199	807.706	322.6913

BUD13	147.3595	209.5099	124.5716	110.5229
BUD31	323.0254	343.8894	1189.458	251.6726
BVES	0	0	0	0.443867
BVES-AS1	0	0	0	0
BYSL	291.3889	189.3529	64.29501	147.8077
BZRAP1	24.14365	59.85996	36.16594	65.24845
BZW1	77.42618	273.6455	200.9219	197.5208
BZW2	543.6483	659.6812	550.526	511.3348
C10orf10	604.4237	328.0082	92.42408	238.3566
C10orf103	0	2.443264	0	2.663202
C10orf105	7.492856	0.610816	0	1.331601
C10orf107	0	6.718975	0	2.663202
C10orf108	59.11031	39.09222	0	55.03951
C10orf11	2.497619	0.610816	96.44251	3.994803
C10orf111	9.990475	1.832448	0	5.326404
C10orf113	0	0	4.018438	0.443867
C10orf114	0	1.832448	0	4.43867
C10orf116	211.4651	94.06566	4.018438	87.4418
C10orf118	20.81349	17.10285	8.036876	33.29003
C10orf12	5.827777	14.65958	12.05531	9.321207
C10orf120	0.83254	0	0	0
C10orf122	0	0	0	0
C10orf125	440.4134	468.4958	52.23969	271.2027
C10orf128	0.83254	0.610816	4.018438	3.107069
C10orf129	0	0	0	1.775468
C10orf131	0	0	0	0
C10orf136	0	0	0	0
C10orf137	69.93332	37.87059	100.461	58.14658
C10orf140	0	3.05408	184.8482	5.770271
C10orf2	154.8524	91.62239	80.36876	64.36072
C10orf25	13.32063	26.8759	0	27.51976
C10orf26	351.3317	251.0454	229.051	242.3514
C10orf27	0	0	0	0
C10orf28	136.5365	96.50892	108.4978	80.33993
C10orf32	39.12936	15.2704	0	14.20374
C10orf32- <i>l</i>	0	0	0	0
C10orf35	74.92856	107.5036	4.018438	118.0686
C10orf40	0	0.610816	0	0.443867
C10orf46	248.9293	102.0063	100.461	135.8233
C10orf47	134.0389	172.2501	8.036876	144.2568
C10orf53	0	0	0	0
C10orf54	384.6333	141.7093	116.5347	260.9938
C10orf55	2.497619	10.38387	0	11.09668
C10orf58	144.8619	663.9569	28.12907	309.8192
C10orf62	0	0	0	0.887734
C10orf67	27.47381	1.832448	0	0
C10orf68	7.492856	7.329791	0	11.09668

C10orf71	0	0	0	0
C10orf76	167.3405	107.5036	68.31345	78.1206
C10orf81	703.4959	237.6074	4.018438	304.9366
C10orf82	0	0	0	0.443867
C10orf88	33.30158	20.76774	8.036876	25.74429
C10orf90	0	0	0	3.550936
C10orf91	0.83254	1.221632	0	2.663202
C10orf95	34.13412	14.65958	8.036876	11.54054
C10orf96	0	0	0	0
C10orf99	0	1.221632	0	7.101872
C11orf1	90.74681	186.9097	76.35032	78.1206
C11orf10	803.4007	927.2186	1257.771	644.9388
C11orf16	5.827777	0	0	1.331601
C11orf2	1553.519	1070.76	570.6182	636.0614
C11orf20	2.497619	1.221632	0	1.775468
C11orf21	0	0	0	0
C11orf24	333.0158	225.3911	24.11063	247.6778
C11orf30	43.29206	69.63302	313.4382	83.00313
C11orf31	1022.359	1071.982	156.7191	628.9596
C11orf34	0	0.610816	0	0
C11orf35	171.5032	181.4123	16.07375	258.7745
C11orf36	0	0.610816	0	0
C11orf40	0	0	0	0
C11orf41	26.64127	15.2704	20.09219	9.765074
C11orf42	1.665079	0.610816	8.036876	2.219335
C11orf45	10.82301	26.26509	0	27.51976
C11orf46	35.7992	39.09222	8.036876	31.51456
C11orf48	962.4158	762.9091	249.1432	509.5593
C11orf49	501.1888	142.3201	132.6085	138.4865
C11orf51	99.90475	48.25446	112.5163	42.61123
C11orf52	0	0	0	0
C11orf53	68.26825	106.282	0	24.41269
C11orf54	81.58888	195.4611	48.22126	144.7006
C11orf57	100.7373	172.2501	40.18438	149.1393
C11orf58	307.2071	285.8619	253.1616	229.4792
C11orf61	79.9238	57.4167	257.18	86.55407
C11orf63	51.61745	4.275712	0	25.30042
C11orf65	3.330158	1.832448	0	5.770271
C11orf67	117.3881	124.6065	373.7147	85.22247
C11orf68	292.2214	312.127	546.5076	263.2131
C11orf70	84.0865	40.31385	4.018438	16.86695
C11orf71	26.64127	65.35731	4.018438	53.70791
C11orf73	119.0532	154.5364	216.9957	81.67153
C11orf74	61.60793	37.87059	44.20282	23.96882
C11orf75	359.6571	326.1757	144.6638	165.1185
C11orf80	384.6333	438.5659	12.05531	189.9751
C11orf82	37.46428	29.31917	0	41.27963

C11orf83	1203.852	594.9347	168.7744	284.0749
C11orf84	72.43094	98.95218	120.5531	140.262
C11orf85	0	33.59488	8.036876	35.95323
C11orf86	14.15317	3.05408	0	4.882537
C11orf87	0	0	28.12907	0
C11orf88	0	0	0	0
C11orf9	2124.641	2433.491	84.3872	2535.812
C11orf91	40.79444	15.2704	12.05531	11.09668
C11orf92	208.1349	150.8715	4.018438	64.80458
C11orf93	156.5174	134.3795	0	60.80978
C11orf94	0.83254	0	4.018438	0.443867
C11orf95	40.79444	37.87059	104.4794	108.7474
C11orf96	33.30158	10.99469	237.0878	29.29522
C12orf10	590.2706	196.6827	807.706	150.0271
C12orf12	0.83254	0	4.018438	0
C12orf23	59.11031	47.03283	80.36876	72.35032
C12orf26	29.97142	27.48672	32.1475	18.64241
C12orf29	53.28253	36.03814	0	28.40749
C12orf32	114.0579	418.4089	8.036876	280.9678
C12orf33	0	1.221632	0	3.107069
C12orf34	9.990475	1.832448	4.018438	3.107069
C12orf35	78.25872	138.6552	36.16594	153.578
C12orf36	171.5032	298.0782	4.018438	518.4367
C12orf37	2.497619	0	0	0.887734
C12orf39	0	0	0	6.214138
C12orf4	78.25872	119.1091	140.6453	122.9512
C12orf40	0	0	0	0
C12orf42	0	0	0	0
C12orf43	47.45476	62.91404	132.6085	51.04471
C12orf44	645.2182	412.9116	570.6182	281.8556
C12orf45	76.59364	67.80057	0	29.73909
C12orf47	411.2746	133.1579	8.036876	91.43661
C12orf49	181.4936	121.5524	32.1475	122.0634
C12orf5	66.60317	122.1632	0	86.55407
C12orf50	0	0	0	0
C12orf51	258.0873	136.212	200.9219	197.5208
C12orf52	115.723	56.80588	32.1475	42.61123
C12orf53	28.30635	21.98937	739.3926	55.48338
C12orf54	0	0	0	0.443867
C12orf56	0	0.610816	0	0.443867
C12orf57	758.4436	728.0926	3962.18	663.5812
C12orf59	0	0	4.018438	0.443867
C12orf60	4.162698	12.82714	0	14.20374
C12orf61	5.827777	1.832448	0	6.214138
C12orf65	64.93809	69.63302	0	56.37111
C12orf66	14.98571	8.551423	48.22126	17.75468
C12orf68	9.990475	3.05408	16.07375	2.219335

C12orf69	0	1.832448	4.018438	3.994803
C12orf70	14.98571	9.773055	0	3.994803
C12orf71	0	0.610816	0	0.887734
C12orf73	111.5603	28.70835	32.1475	27.07589
C12orf74	0.83254	0	0	2.219335
C12orf75	432.088	1562.467	20.09219	599.2205
C12orf76	39.9619	35.42733	8.036876	28.40749
C12orf77	0	0.610816	0	0
C13orf15	29.13889	83.68179	184.8482	57.70271
C13orf33	1.665079	10.38387	216.9957	12.87214
C13orf35	0	0	0	0
C14orf1	253.092	831.3205	112.5163	469.1674
C14orf101	74.92856	110.5577	24.11063	79.89606
C14orf102	137.369	70.24383	289.3275	71.46259
C14orf105	89.08173	139.266	0	180.6539
C14orf109	93.24443	132.5471	192.885	83.447
C14orf118	4.995237	23.82182	32.1475	41.7235
C14orf119	427.9253	423.9063	221.0141	261.8815
C14orf126	28.30635	47.03283	16.07375	23.52495
C14orf129	106.5651	103.2279	212.9772	74.56966
C14orf132	103.2349	0	0	0.443867
C14orf133	44.1246	142.9309	188.8666	113.1861
C14orf135	64.93809	61.69241	8.036876	70.57486
C14orf142	62.44047	73.90873	8.036876	59.47818
C14orf149	22.47857	35.42733	64.29501	38.17256
C14orf159	338.0111	59.24915	0	126.5021
C14orf162	0	0	0	0
C14orf165	0	0	0	0
C14orf166	1034.847	896.067	4351.968	561.4918
C14orf166	5.827777	0	4.018438	0
C14orf167	44.95714	74.51955	0	43.49897
C14orf169	34.13412	81.23852	64.29501	83.00313
C14orf176	26.64127	6.10816	8.036876	10.65281
C14orf177	0	0	0	0.443867
C14orf178	3.330158	0	0	0.443867
C14orf180	8.325396	0	0	0.443867
C14orf182	26.64127	6.718975	0	6.214138
C14orf183	0.83254	0	0	0
C14orf2	593.6007	1100.69	0	595.6695
C14orf21	75.7611	67.80057	257.18	75.45739
C14orf23	1.665079	0	0	0
C14orf28	19.98095	26.8759	80.36876	15.53535
C14orf37	0.83254	4.275712	40.18438	3.994803
C14orf38	0	0	0	0
C14orf39	2.497619	0	0	0
C14orf43	62.44047	107.5036	148.6822	117.1809
C14orf45	4.995237	37.25977	0	55.03951

C14orf49	1.665079	0	24.11063	3.994803
C14orf55	3.330158	1.832448	0	2.219335
C14orf64	0	0	0	0
C14orf79	255.5897	420.2414	0	325.7984
C14orf80	1151.402	442.8416	8.036876	300.498
C14orf93	94.07697	86.73587	36.16594	82.55927
C15orf17	276.4031	358.549	60.27657	358.2007
C15orf2	0	0.610816	0	0
C15orf23	89.91427	175.915	4.018438	152.6903
C15orf24	818.3864	703.0492	855.9273	668.4637
C15orf26	0	1.221632	8.036876	1.331601
C15orf27	0.83254	0.610816	4.018438	2.663202
C15orf29	7.492856	40.31385	12.05531	37.28483
C15orf32	0	0	0	0
C15orf33	0.83254	13.43795	0	3.994803
C15orf34	0	6.10816	0	9.321207
C15orf37	3.330158	7.940607	0	11.54054
C15orf38	14.98571	32.37325	0	42.16737
C15orf38- <del>l</del>	0	0	0	0
C15orf39	145.6944	221.1154	28.12907	293.84
C15orf40	29.97142	145.3742	76.35032	102.0894
C15orf41	39.12936	75.13036	8.036876	79.89606
C15orf42	92.41189	58.02752	16.07375	69.24325
C15orf43	1.665079	0	0	0
C15orf44	117.3881	246.7696	200.9219	300.9418
C15orf48	203.1397	319.4567	4.018438	854.444
C15orf5	0	0.610816	0	0
C15orf50	0	0	4.018438	0
C15orf52	660.2039	969.3649	28.12907	1594.37
C15orf53	0	0	0	0
C15orf54	0	0	0	0
C15orf55	1.665079	1.221632	4.018438	0.887734
C15orf56	1.665079	10.38387	0	6.214138
C15orf57	49.95237	144.7634	124.5716	150.4709
C15orf58	32.46904	25.65427	20.09219	17.75468
C15orf59	9.990475	12.82714	168.7744	9.321207
C15orf60	0.83254	0	24.11063	0
C15orf61	26.64127	40.92467	249.1432	23.96882
C15orf62	14.15317	48.25446	12.05531	50.60084
C15orf63	0.83254	1.221632	0	3.107069
C16orf11	0	0	4.018438	0.443867
C16orf13	936.607	467.2742	237.0878	367.078
C16orf3	0	1.832448	0	9.765074
C16orf42	584.4428	583.3292	172.7928	381.7256
C16orf45	14.15317	10.99469	12.05531	10.20894
C16orf46	15.81825	5.497344	0	12.42828
C16orf48	764.2713	258.3751	36.16594	195.3015

C16orf5	5.827777	8.551423	56.25813	22.63722
C16orf52	25.80873	29.92998	164.756	34.17776
C16orf53	327.1881	324.9541	401.8438	242.3514
C16orf54	0	0.610816	0	0
C16orf55	111.5603	48.86528	0	30.18296
C16orf57	235.6087	202.7909	68.31345	289.4013
C16orf58	328.8531	508.1989	48.22126	460.2901
C16orf59	104.9	90.40076	0	79.89606
C16orf62	80.75634	236.3858	538.4707	259.6622
C16orf7	2505.112	177.1366	132.6085	278.7485
C16orf70	72.43094	73.29791	120.5531	86.1102
C16orf71	5.827777	1.832448	0	8.433473
C16orf72	111.5603	197.2936	442.0282	168.2256
C16orf73	0.83254	0.610816	8.036876	0
C16orf74	0	185.0772	0	244.1269
C16orf78	0	0.610816	0	0
C16orf79	109.0627	29.31917	0	46.60604
C16orf80	254.7571	193.6287	305.4013	143.8129
C16orf82	0	0	0	0
C16orf86	19.14841	25.65427	0	21.74948
C16orf87	10.82301	20.15693	124.5716	24.41269
C16orf88	75.7611	266.9266	92.42408	163.7869
C16orf89	0	0.610816	52.23969	40.3919
C16orf90	4.162698	1.832448	32.1475	4.882537
C16orf91	171.5032	109.9469	12.05531	70.57486
C16orf92	0	0	0	0
C16orf93	20.81349	6.718975	0	5.770271
C16orf95	25.80873	15.2704	4.018438	9.321207
C16orf96	0	0	0	0.443867
C17orf100	13.32063	11.6055	0	14.20374
C17orf101	255.5897	172.8609	88.40564	130.9408
C17orf102	0	0.610816	0	0
C17orf103	21.64603	4.275712	0	18.64241
C17orf104	0	1.832448	0	1.331601
C17orf105	0	0	0	0
C17orf107	2.497619	6.10816	0	9.765074
C17orf108	22.47857	36.64896	28.12907	30.62682
C17orf109	108.2301	171.6393	12.05531	98.98235
C17orf110	180.6611	106.282	12.05531	74.12579
C17orf28	3191.124	1518.488	188.8666	1339.591
C17orf39	14.15317	23.82182	164.756	27.96362
C17orf47	0	3.664896	0	5.326404
C17orf48	27.47381	41.53548	277.2722	23.52495
C17orf49	0	0	0	0
C17orf50	8.325396	2.443264	4.018438	1.331601
C17orf51	19.14841	1.832448	0	14.64761
C17orf53	28.30635	51.30854	0	49.71311

C17orf56	477.8777	200.9584	24.11063	230.8108
C17orf57	0.83254	17.10285	0	13.75988
C17orf58	73.26348	50.08691	16.07375	27.51976
C17orf59	109.8952	90.40076	405.8622	79.4522
C17orf61	421.265	341.4461	2776.741	228.5915
C17orf61-f	0	0	0	0.443867
C17orf62	958.2531	597.378	28.12907	504.6768
C17orf63	138.2016	147.8175	112.5163	207.7298
C17orf64	0	0.610816	0	0
C17orf65	13.32063	42.1463	0	51.48857
C17orf66	0	0	4.018438	0.443867
C17orf67	4.995237	33.59488	4.018438	31.07069
C17orf69	1.665079	0.610816	0	3.107069
C17orf70	705.161	359.7706	28.12907	286.7381
C17orf72	19.98095	0.610816	0	11.98441
C17orf74	0	0	0	0
C17orf75	74.09602	80.01689	44.20282	71.46259
C17orf76-f	2291.149	1192.924	20.09219	748.3598
C17orf77	0	0	0	0
C17orf78	0	0.610816	0	0.443867
C17orf79	384.6333	403.7493	48.22126	241.9075
C17orf80	48.2873	110.5577	28.12907	84.7786
C17orf81	156.5174	134.9903	136.6269	138.9304
C17orf82	21.64603	3.664896	8.036876	2.663202
C17orf85	129.0436	185.688	168.7744	202.4034
C17orf89	665.1991	448.9497	225.0325	227.7038
C17orf90	559.4666	236.3858	36.16594	196.1892
C17orf96	53.28253	9.162239	64.29501	29.29522
C17orf97	19.14841	35.42733	0	23.96882
C17orf98	0	0.610816	0	0.887734
C17orf99	0	2.443264	4.018438	2.663202
C18orf1	39.9619	18.32448	192.885	26.18815
C18orf21	19.14841	50.69772	12.05531	30.18296
C18orf25	34.13412	56.80588	88.40564	57.70271
C18orf26	0	0	8.036876	0
C18orf32	2.497619	13.43795	0	15.09148
C18orf34	0	0	0	0
C18orf42	0.83254	0	0	0
C18orf54	0.83254	8.551423	4.018438	9.765074
C18orf56	2.497619	18.32448	0	15.09148
C18orf62	0	0	0	0
C18orf63	0	0	0	0
C18orf8	178.996	55.58425	241.1063	93.21207
C19orf10	1158.895	1049.382	100.461	802.9554
C19orf12	57.44523	127.0497	28.12907	68.35552
C19orf18	9.990475	13.43795	0	18.64241
C19orf21	1878.209	723.2061	52.23969	424.3369



C19orf24	881.6594	277.3104	8.036876	295.6154
C19orf25	397.1214	176.5258	52.23969	128.2776
C19orf26	0	9.773055	0	20.41788
C19orf29	279.7333	137.4336	100.461	122.0634
C19orf29-1	1.665079	1.221632	0	2.663202
C19orf33	0	0	0	0
C19orf35	0	0	0	0.443867
C19orf38	11.65555	5.497344	116.5347	5.770271
C19orf40	9.990475	28.70835	32.1475	23.52495
C19orf42	529.4952	370.7653	48.22126	275.6414
C19orf43	2470.145	869.8019	2977.663	788.7517
C19orf44	63.27301	48.25446	8.036876	51.93244
C19orf45	9.990475	4.886528	4.018438	1.331601
C19orf46	19.98095	38.48141	0	50.60084
C19orf47	118.2206	89.17913	120.5531	78.56446
C19orf48	1525.213	910.7266	12.05531	499.3504
C19orf51	159.8476	34.20569	16.07375	33.29003
C19orf52	87.41666	76.96281	16.07375	67.46779
C19orf53	755.9459	460.5552	277.2722	411.0209
C19orf54	139.8666	104.4495	8.036876	96.31914
C19orf55	34.13412	39.09222	4.018438	45.27444
C19orf57	29.97142	10.38387	8.036876	16.86695
C19orf59	0	0	0	0
C19orf6	4507.369	1352.347	791.6323	1681.368
C19orf60	1037.344	440.3983	1691.762	249.8971
C19orf63	1034.014	1088.474	361.6594	694.6519
C19orf66	389.6285	130.1038	136.6269	166.4501
C19orf69	1.665079	0	0	0
C19orf70	1138.082	531.4099	667.0607	245.9023
C19orf71	19.98095	9.773055	24.11063	17.31081
C19orf73	33.30158	14.65958	8.036876	9.321207
C19orf75	0	0	0	0
C19orf76	87.41666	9.773055	0	15.53535
C19orf77	1314.58	307.8512	8.036876	91.88047
C19orf79	674.3571	242.4939	32.1475	165.5624
C19orf80	0.83254	0	4.018438	4.43867
C19orf81	0.83254	0	0	0.443867
C1D	11.65555	49.47609	52.23969	27.96362
C1GALT1	125.7135	251.0454	36.16594	273.866
C1GALT1C	129.0436	509.4205	200.9219	174.8836
C1QA	89.91427	86.12505	2688.335	180.6539
C1QB	303.8769	230.8884	5002.955	247.6778
C1QBP	203.1397	362.8247	442.0282	193.0822
C1QC	33.30158	36.03814	900.1301	67.02392
C1QL1	0	1.221632	28.12907	0.887734
C1QL2	0	0	8.036876	0
C1QL3	0	1.221632	16.07375	3.994803

C1QL4	0	0	20.09219	0
C1QTNF1	697.6682	45.20038	68.31345	40.3919
C1QTNF2	9.990475	12.82714	277.2722	32.84616
C1QTNF3	20.81349	40.92467	0	42.61123
C1QTNF3- <i>f</i>	0	2.443264	0	0.443867
C1QTNF4	18.31587	9.162239	140.6453	13.31601
C1QTNF5	0	0	0	0
C1QTNF6	36.63174	86.12505	52.23969	136.2672
C1QTNF7	0	10.38387	88.40564	12.87214
C1QTNF8	2.497619	1.221632	4.018438	0.443867
C1QTNF9	0	0	16.07375	0.443867
C1QTNF9B	0	0	0	0
C1QTNF9B	8.325396	0.610816	0	0.443867
C1R	98.23967	56.19507	1000.591	629.4034
C1RL	152.3547	285.8619	120.5531	469.6113
C1S	49.95237	9.773055	341.5672	618.3068
C1orf100	0	0	0	0.443867
C1orf101	0	7.329791	4.018438	9.765074
C1orf105	0	1.832448	0	4.43867
C1orf106	316.365	345.7218	8.036876	403.919
C1orf109	25.80873	59.24915	0	65.69232
C1orf110	0	0.610816	0	4.882537
C1orf111	0	0	0	0.887734
C1orf112	34.13412	90.40076	4.018438	69.68712
C1orf114	5.827777	4.275712	12.05531	3.994803
C1orf115	79.9238	92.84402	8.036876	235.2495
C1orf116	800.9031	1046.939	12.05531	797.1852
C1orf122	827.5443	643.8	763.5032	492.2485
C1orf123	338.8436	271.8131	683.1345	177.9907
C1orf124	18.31587	33.59488	4.018438	37.28483
C1orf126	171.5032	31.76243	4.018438	128.7214
C1orf127	0	0	0	4.43867
C1orf129	0	0	0	0
C1orf130	222.2881	172.2501	24.11063	123.8389
C1orf131	82.42142	129.493	0	78.56446
C1orf133	53.28253	47.64364	20.09219	28.40749
C1orf135	25.80873	31.76243	4.018438	29.73909
C1orf140	0	0.610816	0	0
C1orf141	0	0	0	0
C1orf144	894.98	676.7841	1426.546	737.2631
C1orf146	0	0	4.018438	0.887734
C1orf150	0	0	0	0
C1orf151- <i>f</i>	0	0	0	0
C1orf158	0.83254	0	0	0.443867
C1orf159	635.2277	210.7315	8.036876	229.9231
C1orf162	4.162698	8.551423	0	9.321207
C1orf168	0	0.610816	0	1.775468

C1orf170	197.3119	50.08691	4.018438	50.60084
C1orf172	228.1158	222.9478	20.09219	156.6851
C1orf173	0	0	0	0.443867
C1orf174	170.6706	126.4389	24.11063	93.65594
C1orf177	2.497619	1.221632	16.07375	1.331601
C1orf180	0	0	0	0.887734
C1orf182	0.83254	5.497344	0	5.326404
C1orf185	0	0	0	0
C1orf186	81.58888	18.32448	277.2722	117.1809
C1orf187	0	0	8.036876	0.887734
C1orf189	2.497619	4.275712	28.12907	3.107069
C1orf192	237.2738	4.886528	44.20282	19.08628
C1orf194	60.77539	0	0	1.775468
C1orf198	362.1547	692.0545	56.25813	627.1841
C1orf200	0	0	0	0
C1orf201	119.0532	80.62771	0	44.83057
C1orf204	18.31587	3.05408	0	11.98441
C1orf21	432.9206	366.4896	241.1063	159.3483
C1orf210	123.2159	155.1473	8.036876	117.6248
C1orf212	245.5992	327.3974	221.0141	208.1736
C1orf213	32.46904	18.32448	0	20.86175
C1orf216	108.2301	111.1685	32.1475	101.2017
C1orf220	4.995237	0	0	3.994803
C1orf226	104.9	70.24383	8.036876	73.23806
C1orf227	0	1.832448	0	0
C1orf228	13.32063	131.3254	0	135.3794
C1orf229	3.330158	3.05408	0	3.107069
C1orf233	42.45952	10.38387	80.36876	27.51976
C1orf27	74.09602	178.9691	28.12907	197.9647
C1orf31	159.0151	232.1101	56.25813	177.5468
C1orf35	460.3944	339.6137	88.40564	287.182
C1orf38	43.29206	35.42733	48.22126	60.36591
C1orf43	877.4967	1558.191	293.346	1279.669
C1orf49	9.157935	0	0	0.443867
C1orf50	61.60793	75.74118	92.42408	53.70791
C1orf51	59.94285	32.37325	8.036876	38.17256
C1orf52	49.95237	48.86528	36.16594	68.35552
C1orf53	20.81349	63.52486	76.35032	52.82018
C1orf54	14.15317	12.21632	32.1475	8.87734
C1orf55	39.12936	58.63833	24.11063	59.03431
C1orf56	32.46904	62.30323	4.018438	45.7183
C1orf61	0	0.610816	8.036876	0
C1orf63	399.619	310.9053	389.7885	385.2766
C1orf64	0	0	0	0
C1orf65	0	0	0	0
C1orf68	0	0	0	0
C1orf74	17.48333	43.36793	12.05531	40.3919

C1orf85	296.3841	571.1129	357.641	518.4367
C1orf86	837.5348	394.5871	0	307.156
C1orf87	0	0	0	0
C1orf88	95.74205	14.04877	0	34.62163
C1orf9	94.90951	200.3476	204.9403	296.0593
C1orf94	0	0	0	0
C1orf95	0	1.832448	4.018438	0
C1orf96	15.81825	26.8759	8.036876	24.85655
C1orf98	0.83254	1.832448	0	7.545739
C2	0	0	0	0
C20orf11	471.2174	665.1786	257.18	430.9949
C20orf111	284.7285	351.2192	474.1757	260.1061
C20orf112	277.2357	183.2448	124.5716	329.3493
C20orf118	14.98571	53.14099	0	16.86695
C20orf123	0	0	0	0
C20orf132	4.995237	4.886528	0	7.101872
C20orf141	0	0	0	0
C20orf144	1.665079	0	12.05531	3.994803
C20orf151	93.24443	45.20038	0	33.29003
C20orf152	0.83254	1.221632	4.018438	0.887734
C20orf160	4.995237	4.886528	72.33188	11.54054
C20orf166	0	0	4.018438	0
C20orf166	0	0	0	0
C20orf173	0	0	0	0.443867
C20orf194	64.10555	203.4017	140.6453	254.7797
C20orf195	9.157935	12.82714	0	11.98441
C20orf196	55.78015	52.53017	4.018438	48.3815
C20orf197	0.83254	0	0	0.443867
C20orf20	370.4801	239.4399	229.051	175.7713
C20orf201	0	0	0	0
C20orf202	3.330158	0.610816	0	0.443867
C20orf203	0.83254	1.221632	0	0.443867
C20orf24	187.3214	427.5712	429.9729	338.2267
C20orf26	33.30158	1.221632	4.018438	0.887734
C20orf27	715.984	249.8237	277.2722	138.4865
C20orf29	74.09602	78.79526	144.6638	79.89606
C20orf3	705.9936	1158.107	64.29501	1079.928
C20orf30	132.3738	457.5011	12.05531	284.9626
C20orf4	232.2785	328.619	148.6822	284.5188
C20orf43	627.7348	791.6175	578.6551	470.499
C20orf54	183.9912	131.3254	12.05531	99.42621
C20orf7	64.93809	69.63302	233.0694	48.82537
C20orf72	216.4603	201.5693	20.09219	160.6799
C20orf79	0	0	0	0
C20orf85	11.65555	0	0	0.887734
C20orf94	4.162698	1.832448	0	9.765074
C20orf96	134.0389	90.40076	0	128.2776

C21orf119	43.29206	67.80057	0	22.19335
C21orf128	0	0	0	0
C21orf15	5.827777	1.221632	0	0.887734
C21orf2	629.3999	167.9744	84.3872	132.2724
C21orf33	656.0412	369.5437	357.641	259.2183
C21orf37	0	0.610816	0	0.443867
C21orf49	0	4.275712	0	2.219335
C21orf54	0	0	0	0
C21orf56	59.94285	50.69772	0	52.82018
C21orf58	153.1873	30.5408	0	28.85136
C21orf59	566.1269	255.3211	140.6453	177.1029
C21orf62	0	1.832448	0	0.443867
C21orf63	171.5032	104.4495	16.07375	131.8285
C21orf67	23.31111	30.5408	0	24.41269
C21orf7	46.62222	10.99469	4.018438	18.19855
C21orf88	5.827777	0	0	1.331601
C21orf90	0	0	0	0
C21orf91	18.31587	18.32448	48.22126	14.64761
C21orf91-C	0	0	0	0
C22orf13	603.5912	1042.663	72.33188	837.5771
C22orf15	3.330158	0	0	0.443867
C22orf23	30.80396	62.91404	16.07375	32.84616
C22orf24	0.83254	0.610816	0	2.219335
C22orf25	223.9531	184.4664	96.44251	116.737
C22orf26	0	2.443264	8.036876	0
C22orf28	759.2761	997.4625	2322.657	558.8286
C22orf29	282.2309	202.7909	0	159.7921
C22orf31	0	0	0	0
C22orf32	522.0023	406.8034	2672.261	249.0094
C22orf34	0	0	0	0
C22orf39	165.6754	143.5417	56.25813	49.26924
C22orf40	77.42618	111.1685	52.23969	69.68712
C22orf42	0	0	0	0
C22orf43	12.48809	4.886528	0	3.550936
C22orf45	4.162698	2.443264	4.018438	2.663202
C22orf46	71.5984	150.8715	0	172.2204
C2CD2	71.5984	62.91404	16.07375	94.54367
C2CD2L	585.2753	143.5417	160.7375	168.6695
C2CD3	14.98571	31.76243	36.16594	66.13619
C2CD4A	16.65079	58.02752	8.036876	34.62163
C2CD4B	83.25396	59.85996	0	81.22766
C2CD4C	25.80873	1.221632	16.07375	5.326404
C2CD4D	30.80396	8.551423	0	8.87734
C2orf15	17.48333	39.70304	0	20.41788
C2orf16	31.6365	18.93529	0	25.30042
C2orf18	314.7	243.1047	32.1475	283.1872
C2orf27A	19.14841	0	0	0.443867

C2orf27B	0	0	0	0
C2orf28	503.6864	834.9854	574.6366	483.815
C2orf29	462.0595	422.6846	233.0694	400.3681
C2orf40	14.98571	12.21632	0	26.18815
C2orf42	38.29682	42.75712	92.42408	35.06549
C2orf43	29.13889	70.24383	0	49.71311
C2orf44	35.7992	49.47609	0	46.60604
C2orf47	70.76586	163.0879	140.6453	90.105
C2orf48	24.14365	1.221632	0	4.882537
C2orf49	23.31111	38.48141	16.07375	41.7235
C2orf50	7.492856	0	0	1.775468
C2orf51	0	0	0	0
C2orf53	0	0.610816	12.05531	0
C2orf54	50.78491	3.664896	12.05531	40.3919
C2orf55	140.6992	127.6605	0	122.9512
C2orf56	77.42618	67.18975	277.2722	55.48338
C2orf57	0	0	8.036876	0
C2orf61	0.83254	0.610816	0	0
C2orf62	11.65555	7.329791	0	4.882537
C2orf63	8.325396	21.98937	0	18.64241
C2orf65	0	1.832448	8.036876	0
C2orf66	0	2.443264	0	7.101872
C2orf68	253.9246	222.337	4.018438	181.5416
C2orf69	7.492856	25.04345	4.018438	23.96882
C2orf70	25.80873	37.25977	0	7.545739
C2orf71	0	0.610816	16.07375	0.443867
C2orf72	100.7373	681.6706	8.036876	293.3961
C2orf73	4.995237	0	0	1.775468
C2orf74	170.6706	138.0444	4.018438	82.55927
C2orf76	24.97619	18.93529	24.11063	18.19855
C2orf77	22.47857	2.443264	12.05531	9.321207
C2orf78	0	0	0	0.443867
C2orf80	0	0	4.018438	0
C2orf81	135.704	10.38387	0	31.95843
C2orf82	254.7571	51.30854	0	33.73389
C2orf83	0	0	0	0
C2orf84	0	0.610816	0	0
C2orf88	27.47381	8.551423	16.07375	7.101872
C2orf89	156.5174	2.443264	0	3.107069
C2orf91	1.665079	0.610816	4.018438	0.443867
C3	657.7063	1649.814	5035.103	6659.781
C3AR1	25.80873	16.49203	257.18	33.73389
C3P1	6.660317	3.05408	0	5.770271
C3orf14	20.81349	25.65427	24.11063	19.08628
C3orf15	227.2833	3.05408	0	11.98441
C3orf17	308.8722	128.8822	12.05531	149.5832
C3orf18	10.82301	4.886528	20.09219	5.770271

C3orf19	150.6897	79.40607	196.9035	83.89087
C3orf20	0	0	0	1.775468
C3orf22	0	0.610816	0	0
C3orf23	322.1928	111.1685	20.09219	97.65074
C3orf24	0	1.221632	0	0.443867
C3orf25	119.8857	6.718975	0	5.770271
C3orf26	296.3841	191.1854	88.40564	112.2984
C3orf27	2.497619	0	0	0
C3orf30	0	0.610816	0	0.443867
C3orf32	0.83254	2.443264	4.018438	4.882537
C3orf33	33.30158	45.8112	4.018438	22.19335
C3orf35	15.81825	6.10816	4.018438	11.09668
C3orf36	0	0	0	0
C3orf37	1112.273	370.1545	136.6269	220.158
C3orf38	26.64127	54.36262	140.6453	34.62163
C3orf39	76.59364	42.75712	84.3872	59.47818
C3orf43	0	1.832448	4.018438	0.443867
C3orf45	1.665079	0.610816	0	1.331601
C3orf49	0	0.610816	0	1.775468
C3orf51	0	0	0	0
C3orf52	198.977	89.17913	0	110.079
C3orf55	61.60793	4.275712	0	11.98441
C3orf58	67.43571	12.82714	136.6269	15.97921
C3orf62	31.6365	28.09753	4.018438	29.73909
C3orf64	19.14841	47.64364	20.09219	60.80978
C3orf65	3.330158	0	0	0
C3orf67	10.82301	12.21632	4.018438	10.20894
C3orf70	6.660317	5.497344	48.22126	6.214138
C3orf71	19.14841	7.329791	0	3.994803
C3orf72	1.665079	0	0	0
C3orf74	0	0	0	0
C3orf75	236.4412	137.4336	60.27657	93.65594
C3orf77	4.995237	0.610816	0	0.443867
C3orf78	146.527	68.41139	462.1204	47.0499
C3orf79	0	0	0	0
C3orf80	8.325396	1.832448	12.05531	0.443867
C4A	0	0	0	0
C4B	0	0	0	0
C4BPA	14.15317	10.99469	8.036876	158.9044
C4BPB	362.1547	89.78995	8.036876	126.0582
C4orf17	0	0	0	0
C4orf19	330.5182	117.8875	16.07375	216.6071
C4orf21	119.8857	50.69772	12.05531	60.36591
C4orf22	0	0	4.018438	0.887734
C4orf26	0	0.610816	0	2.219335
C4orf27	77.42618	83.68179	401.8438	54.15178
C4orf29	17.48333	23.21101	20.09219	26.18815

C4orf3	510.3468	665.7894	172.7928	418.5666
C4orf32	44.1246	38.48141	16.07375	26.18815
C4orf33	136.5365	86.12505	0	79.00833
C4orf34	44.95714	70.24383	249.1432	130.053
C4orf36	6.660317	12.21632	0	6.658005
C4orf37	0	0.610816	0	0.443867
C4orf38	0	5.497344	4.018438	7.545739
C4orf39	0	0	0	0
C4orf40	0	0.610816	0	0
C4orf42	33.30158	54.36262	0	69.68712
C4orf43	66.60317	105.6712	40.18438	54.59564
C4orf44	23.31111	3.05408	24.11063	15.53535
C4orf45	0	0	0	0
C4orf46	29.13889	32.98406	4.018438	43.49897
C4orf47	45.78968	9.162239	4.018438	17.31081
C4orf48	1299.594	193.0178	72.33188	281.4117
C4orf49	0	0	16.07375	1.331601
C4orf51	0	0	4.018438	0.443867
C4orf52	174.8333	318.2351	136.6269	262.7693
C4orf6	0	0.610816	0	0
C5	6.660317	48.86528	12.05531	315.5895
C5AR1	29.97142	0	16.07375	9.765074
C5orf15	276.4031	127.6605	32.1475	149.1393
C5orf20	0.83254	0	12.05531	0
C5orf22	32.46904	86.73587	16.07375	77.67673
C5orf24	49.11984	70.85465	76.35032	71.46259
C5orf25	34.13412	6.10816	20.09219	7.989606
C5orf27	1.665079	0.610816	4.018438	3.550936
C5orf28	27.47381	64.74649	8.036876	47.0499
C5orf30	99.07221	62.91404	192.885	64.80458
C5orf34	13.32063	34.20569	200.9219	25.74429
C5orf38	0	0	0	0.443867
C5orf39	22.47857	32.98406	8.036876	15.97921
C5orf4	5.827777	40.31385	16.07375	52.82018
C5orf41	24.97619	34.81651	253.1616	56.37111
C5orf42	4.162698	65.35731	60.27657	87.4418
C5orf43	148.192	233.9425	84.3872	164.6747
C5orf44	59.94285	122.1632	164.756	89.66114
C5orf45	9.157935	22.60019	8.036876	23.08108
C5orf46	0	39.70304	0	14.64761
C5orf47	0	0	0	0
C5orf48	0	0	0	0
C5orf49	187.3214	1.221632	0	22.19335
C5orf51	31.6365	78.18444	40.18438	79.4522
C5orf52	0	0	0	0
C5orf54	10.82301	34.20569	0	34.62163
C5orf55	20.81349	74.51955	0	40.3919



C5orf56	72.43094	7.329791	0	12.42828
C5orf58	0	0	0	0.887734
C5orf60	0	0	0	0
C5orf62	19.14841	20.15693	4.018438	22.63722
C5orf63	69.10078	54.97344	16.07375	40.83577
C5orf64	0	0	0	0
C5orf65	14.98571	6.10816	8.036876	23.96882
C6	29.13889	82.46015	136.6269	246.3462
C6orf1	99.90475	261.4292	1229.642	165.1185
C6orf10	0	0	0	0
C6orf106	572.7872	847.8125	450.0651	592.5625
C6orf108	1072.311	510.6421	4.018438	294.2838
C6orf115	330.5182	306.0188	755.4664	240.1321
C6orf118	0.83254	0	0	0
C6orf120	65.77063	61.69241	12.05531	47.49377
C6orf123	0	0	0	0.887734
C6orf130	263.915	269.9807	361.6594	187.3119
C6orf132	304.7095	163.0879	64.29501	169.5572
C6orf136	0	0	0	0
C6orf141	72.43094	94.06566	0	62.58525
C6orf147	41.62698	2.443264	0	8.87734
C6orf15	0	0	0	0
C6orf162	19.98095	18.32448	64.29501	11.09668
C6orf163	1.665079	0	8.036876	4.43867
C6orf164	0.83254	6.10816	0	8.87734
C6orf165	7.492856	1.221632	8.036876	3.550936
C6orf170	14.98571	10.38387	4.018438	21.30562
C6orf174	0	4.275712	24.11063	5.770271
C6orf192	228.1158	130.1038	4.018438	118.5125
C6orf195	0	0	4.018438	0.443867
C6orf201	0	0	0	0.443867
C6orf203	143.1968	56.80588	128.59	39.50416
C6orf211	44.1246	67.18975	24.11063	43.0551
C6orf221	0	0	0	0.887734
C6orf222	93.24443	1.221632	0	5.770271
C6orf223	441.246	535.6856	8.036876	340.0021
C6orf225	54.11507	46.42201	60.27657	33.73389
C6orf226	91.57935	66.57894	136.6269	53.26404
C6orf228	26.64127	50.08691	0	32.84616
C6orf25	0	0	0	0
C6orf47	0	0	0	0
C6orf48	0	0	0	0
C6orf52	1.665079	43.36793	0	31.07069
C6orf57	61.60793	54.36262	100.461	33.73389
C6orf58	0	0	0	1.331601
C6orf62	248.9293	480.1013	3045.976	602.3275
C6orf7	0	0	0	0

C6orf70	112.3928	132.5471	68.31345	117.6248
C6orf72	34.96666	82.46015	116.5347	63.02912
C6orf89	367.9825	582.1076	980.4989	584.129
C6orf97	9.157935	1.832448	0	1.775468
C6orf99	0.83254	6.718975	0	3.550936
C7	6.660317	19.54611	64.29501	49.71311
C7orf10	1.665079	0.610816	4.018438	4.43867
C7orf11	90.74681	166.7528	269.2353	102.5333
C7orf13	49.95237	136.212	8.036876	118.5125
C7orf23	86.58412	119.1091	156.7191	79.89606
C7orf25	37.46428	72.6871	44.20282	71.46259
C7orf26	103.2349	153.9256	148.6822	107.8597
C7orf29	24.97619	84.90342	0	55.03951
C7orf31	14.15317	15.2704	0	26.63202
C7orf33	0	0	0	0
C7orf34	0	0	0	0
C7orf41	123.2159	69.63302	168.7744	71.46259
C7orf42	816.7213	852.6991	249.1432	853.1124
C7orf43	327.1881	515.5287	365.6779	727.0542
C7orf44	241.4365	218.6721	0	165.5624
C7orf45	0	0	0	0
C7orf46	54.94761	69.0222	0	54.59564
C7orf49	111.5603	358.549	0	208.6175
C7orf50	642.7206	922.9429	32.1475	597.0011
C7orf53	11.65555	17.10285	4.018438	20.41788
C7orf55	20.81349	24.43264	68.31345	14.20374
C7orf57	17.48333	1.832448	0	2.663202
C7orf58	0.83254	3.05408	40.18438	13.75988
C7orf59	2421.858	2356.528	2865.146	1381.314
C7orf60	7.492856	10.38387	104.4794	19.53015
C7orf61	11.65555	7.329791	0	20.41788
C7orf62	0	0	0	0
C7orf63	119.8857	31.76243	0	34.17776
C7orf65	3.330158	0	0	0.887734
C7orf66	0	0	0	0
C7orf69	0.83254	0	0	0
C7orf70	8.325396	75.74118	56.25813	57.70271
C7orf71	0	0	0	0.443867
C7orf72	0	0.610816	4.018438	0
C7orf73	291.3889	288.9159	204.9403	189.5312
C8A	29.13889	0	0	2.219335
C8B	15.81825	0	0	1.775468
C8G	10.82301	8.551423	4.018438	15.09148
C8ORFK29	39.12936	3.664896	0	3.994803
C8orf12	0	0	0	0.443867
C8orf22	0	0	0	0
C8orf31	23.31111	25.65427	4.018438	45.7183

C8orf33	551.9737	229.056	152.7006	201.0718
C8orf34	2.497619	0	0	0
C8orf37	8.325396	14.04877	24.11063	13.75988
C8orf38	72.43094	72.6871	80.36876	52.37631
C8orf39	0.83254	3.664896	0	2.219335
C8orf4	428.7579	157.5905	16.07375	211.7246
C8orf40	343.8388	421.463	100.461	196.1892
C8orf42	0	0	0	0
C8orf44	12.48809	9.162239	4.018438	23.08108
C8orf44-SC	0	0	0	0
C8orf45	2.497619	5.497344	4.018438	3.550936
C8orf46	2.497619	2.443264	28.12907	2.219335
C8orf47	95.74205	144.7634	4.018438	62.58525
C8orf48	1.665079	0	4.018438	0
C8orf51	3.330158	4.886528	0	8.87734
C8orf55	646.8833	1173.377	60.27657	773.6602
C8orf56	0	0	0	0.887734
C8orf58	66.60317	120.9416	0	82.55927
C8orf59	217.2928	277.9213	48.22126	117.1809
C8orf69	0	0	0	0
C8orf71	0	0	0	0
C8orf73	2240.364	600.4321	56.25813	647.602
C8orf74	0.83254	0	12.05531	2.219335
C8orf75	1.665079	1.832448	0	2.219335
C8orf76	81.58888	25.65427	184.8482	31.51456
C8orf77	14.98571	4.886528	0	5.770271
C8orf80	0	0	8.036876	0
C8orf82	582.7777	381.1492	84.3872	271.6466
C8orf83	193.9817	145.985	84.3872	84.7786
C8orf84	14.15317	4.275712	24.11063	15.09148
C8orf85	0	0	0	0
C8orf86	0	0.610816	0	0
C8orf87	0	0	0	0
C9	0	3.664896	0	4.882537
C9orf100	157.35	178.9691	4.018438	111.8545
C9orf102	1.665079	4.275712	32.1475	8.433473
C9orf103	59.11031	54.97344	245.1247	39.94803
C9orf106	0.83254	0	0	3.107069
C9orf11	0	0.610816	0	0.443867
C9orf114	308.0396	218.0613	84.3872	161.1237
C9orf116	173.1682	36.03814	0	24.41269
C9orf117	58.27777	3.05408	0	8.433473
C9orf123	300.5468	456.8903	0	214.8316
C9orf125	208.9674	104.4495	44.20282	55.48338
C9orf128	34.13412	6.10816	0	7.545739
C9orf129	4.162698	12.21632	0	29.73909
C9orf131	4.162698	0.610816	0	1.331601

C9orf135	8.325396	0	0	0
C9orf139	0	0	0	0
C9orf142	1076.474	811.1636	56.25813	412.7963
C9orf146	0	0	0	0
C9orf152	125.7135	99.563	0	92.32434
C9orf153	0	0	0	0
C9orf156	87.41666	55.58425	32.1475	40.83577
C9orf16	1064.818	371.9869	876.0195	320.9159
C9orf163	37.46428	8.551423	0	10.65281
C9orf167	683.515	349.3867	0	298.7225
C9orf169	14.15317	7.940607	0	14.20374
C9orf170	0.83254	0	0	0
C9orf171	54.94761	0	12.05531	0
C9orf172	5.827777	17.71366	0	16.86695
C9orf173	4.162698	0	0	1.331601
C9orf174	0	0	0	0
C9orf21	14.15317	62.91404	124.5716	30.62682
C9orf23	389.6285	389.0898	353.6225	204.6227
C9orf24	579.4475	0.610816	24.11063	2.663202
C9orf25	183.1587	139.8769	148.6822	169.5572
C9orf29	0	0	0	0
C9orf3	655.2086	149.0391	221.0141	145.1445
C9orf30	39.9619	77.57363	40.18438	40.3919
C9orf30-TM	0	0	0	0
C9orf37	226.4508	59.24915	8.036876	48.82537
C9orf4	0.83254	0	0	0
C9orf40	20.81349	39.09222	20.09219	16.42308
C9orf41	12.48809	10.99469	221.0141	19.53015
C9orf43	12.48809	5.497344	4.018438	9.321207
C9orf46	153.1873	194.2395	180.8297	83.00313
C9orf47	0	0	0	0.443867
C9orf5	173.1682	196.6827	32.1475	184.6487
C9orf50	4.162698	1.221632	0	5.326404
C9orf53	3.330158	0	0	0
C9orf57	0	0	0	1.331601
C9orf64	40.79444	62.30323	245.1247	45.7183
C9orf66	0.83254	0.610816	4.018438	6.214138
C9orf68	146.527	144.1526	12.05531	145.5884
C9orf69	453.7341	298.689	88.40564	193.0822
C9orf7	785.0848	301.1323	24.11063	300.0541
C9orf71	0	0.610816	16.07375	4.882537
C9orf72	19.98095	59.24915	96.44251	62.14138
C9orf78	317.1976	253.4886	743.411	169.1133
C9orf79	0	0	0	0
C9orf80	30.80396	18.32448	12.05531	14.20374
C9orf82	54.94761	95.28729	48.22126	65.24845
C9orf84	0	1.221632	4.018438	2.663202

C9orf85	15.81825	25.04345	32.1475	11.09668
C9orf86	1808.276	1520.321	48.22126	867.76
C9orf89	524.4999	261.4292	1157.31	217.9387
C9orf9	26.64127	6.10816	8.036876	8.433473
C9orf91	41.62698	20.76774	16.07375	38.61643
C9orf93	1.665079	14.04877	24.11063	10.20894
C9orf95	120.7182	69.63302	0	38.17256
C9orf96	0.83254	3.05408	0	6.214138
CA1	0.83254	1.221632	0	0.443867
CA10	0	1.832448	32.1475	0
CA11	23.31111	50.08691	72.33188	73.68193
CA12	245.5992	178.3583	16.07375	240.5759
CA13	175.6659	50.69772	68.31345	70.13099
CA14	12.48809	12.21632	28.12907	7.545739
CA2	731.8023	3260.536	20.09219	570.3691
CA3	52.44999	20.15693	506.3232	28.40749
CA4	0	6.10816	0	1.331601
CA5A	0.83254	0	0	0
CA5B	4.995237	6.718975	16.07375	7.545739
CA5BP1	77.42618	18.32448	4.018438	30.18296
CA6	0	0.610816	0	0
CA7	0	1.832448	84.3872	2.663202
CA8	69.10078	0.610816	20.09219	5.326404
CA9	5001.065	2870.224	12.05531	1875.782
CAB39	278.9008	368.9328	333.5304	345.7724
CAB39L	29.13889	40.31385	200.9219	38.17256
CABIN1	780.0896	526.5234	687.1529	509.5593
CABLES1	343.0063	135.6011	124.5716	129.1653
CABLES2	50.78491	32.98406	12.05531	66.58005
CABP1	6.660317	6.10816	84.3872	6.658005
CABP2	0	0	0	0
CABP4	33.30158	76.35199	20.09219	107.4158
CABP5	0	0	16.07375	0.443867
CABP7	4.162698	3.664896	0	2.663202
CABS1	0	0	0	0
CABYR	48.2873	12.82714	8.036876	10.20894
CACHD1	4.995237	17.71366	36.16594	52.37631
CACNA1A	6.660317	17.10285	216.9957	20.41788
CACNA1B	0.83254	1.221632	44.20282	0.443867
CACNA1C	50.78491	6.718975	8.036876	9.321207
CACNA1D	79.9238	56.19507	28.12907	118.5125
CACNA1E	7.492856	1.832448	44.20282	2.663202
CACNA1F	17.48333	4.886528	64.29501	4.43867
CACNA1G	9.990475	15.2704	132.6085	21.30562
CACNA1H	0	3.05408	4.018438	0.887734
CACNA1I	0.83254	16.49203	24.11063	27.07589
CACNA1S	5.827777	3.05408	80.36876	0.443867

CACNA2D1	0	10.99469	12.05531	5.326404
CACNA2D2	47.45476	9.773055	20.09219	24.41269
CACNA2D3	0.83254	1.221632	8.036876	0.887734
CACNA2D4	9.990475	37.87059	0	27.96362
CACNB1	264.7476	31.76243	277.2722	80.7838
CACNB2	11.65555	5.497344	28.12907	10.20894
CACNB3	244.7666	163.0879	204.9403	229.0354
CACNB4	0	1.832448	36.16594	5.770271
CACNG1	0	0	4.018438	1.331601
CACNG2	0	0	52.23969	0.443867
CACNG3	0	0	28.12907	0
CACNG4	67.43571	481.9338	0	253.0042
CACNG5	0.83254	0	4.018438	0
CACNG6	0	0	0	0.887734
CACNG7	0.83254	1.832448	56.25813	1.775468
CACNG8	5.827777	4.886528	40.18438	1.331601
CACYBP	266.4127	317.0135	249.1432	204.1788
CAD	402.1166	210.7315	393.8069	274.7537
CADM1	32.46904	32.98406	755.4664	43.49897
CADM2	0.83254	0	56.25813	1.775468
CADM3	0.83254	1.832448	329.5119	5.770271
CADM4	37.46428	101.3954	229.051	91.43661
CADPS	9.990475	0.610816	16.07375	0.443867
CADPS2	86.58412	160.0338	40.18438	169.5572
CAGE1	0	0.610816	0	8.433473
CAHM	16.65079	8.551423	0	9.321207
CALB1	0.83254	0.610816	0	5.770271
CALB2	0.83254	159.423	0	19.08628
CALCA	0	0	0	0.887734
CALCB	0	0	0	0
CALCOCO1	344.6714	122.1632	257.18	304.0489
CALCOCO2	259.7523	492.9285	0	353.3181
CALCR	0	0	4.018438	2.219335
CALCRL	0	2.443264	16.07375	9.321207
CALD1	35.7992	73.90873	241.1063	263.657
CALHM1	0	0	4.018438	0
CALHM2	8.325396	30.5408	132.6085	56.81498
CALHM3	0.83254	3.664896	16.07375	4.882537
CALM1	2455.159	1681.576	4862.31	1122.984
CALM2	1416.15	2977.117	9817.044	1885.991
CALM3	1914.841	2492.74	5605.721	1477.189
CALML3	10.82301	4.886528	249.1432	12.42828
CALML4	752.6158	604.7078	216.9957	373.736
CALML5	0.83254	0	0	8.433473
CALML6	10.82301	7.329791	0	4.882537
CALN1	0	0.610816	12.05531	0
CALR	6823.494	6525.347	6895.64	5587.398

CALR3	0	0	12.05531	0.887734
CALU	303.0444	676.7841	819.7614	865.0968
CALY	0	0	20.09219	2.219335
CAMK1	154.0198	154.5364	2993.736	199.2963
CAMK1D	0.83254	28.09753	60.27657	38.17256
CAMK1G	0	0	0	4.43867
CAMK2A	0	1.221632	40.18438	1.331601
CAMK2B	2.497619	1.832448	52.23969	2.219335
CAMK2D	129.8762	164.9203	297.3644	122.0634
CAMK2G	487.8682	521.6368	421.936	505.5645
CAMK2N1	573.6198	1154.442	755.4664	725.7226
CAMK2N2	4.162698	11.6055	80.36876	12.42828
CAMK4	4.162698	1.832448	12.05531	0.443867
CAMKK1	49.95237	25.65427	32.1475	15.97921
CAMKK2	387.9634	197.2936	172.7928	200.6279
CAMKMT	49.11984	36.64896	68.31345	25.30042
CAMKV	0	0.610816	12.05531	1.331601
CAMLG	122.3833	118.4983	92.42408	83.447
CAMP	0	0.610816	0	1.331601
CAMSAP1	153.1873	116.6658	72.33188	145.1445
CAMSAP2	49.95237	73.90873	48.22126	102.9771
CAMSAP3	1083.134	269.3698	88.40564	256.1113
CAMTA1	323.8579	169.196	309.4197	133.604
CAMTA2	218.9579	189.3529	538.4707	236.5811
CAND1	218.9579	275.478	687.1529	257.4429
CAND2	3.330158	3.664896	72.33188	7.545739
CANT1	750.1182	687.7788	188.8666	422.1175
CANX	935.7745	1807.404	1105.07	2270.38
CAP1	896.6451	1171.545	739.3926	873.0864
CAP2	2.497619	18.93529	12.05531	22.19335
CAPG	2793.17	2457.923	15475	1300.53
CAPN1	2539.246	2646.055	305.4013	2287.691
CAPN10	470.3849	347.5543	64.29501	246.3462
CAPN11	7.492856	0.610816	4.018438	1.331601
CAPN12	507.0166	1734.106	36.16594	717.2891
CAPN13	166.5079	80.01689	0	56.37111
CAPN14	0	0	12.05531	0
CAPN2	1896.525	4058.872	450.0651	3817.256
CAPN3	44.1246	93.45484	16.07375	160.6799
CAPN5	2291.981	1376.779	52.23969	957.4212
CAPN6	44.95714	0	12.05531	2.663202
CAPN7	32.46904	48.25446	325.4935	67.46779
CAPN8	4225.971	1334.633	52.23969	730.6051
CAPN9	93.24443	26.26509	0	196.1892
CAPNS1	2599.189	3653.29	4721.665	1514.474
CAPNS2	0	0.610816	4.018438	0
CAPRIN1	308.0396	349.3867	1068.905	399.0364

CAPRIN2	160.6801	175.3042	40.18438	190.419
CAPS	3114.531	1896.584	32.1475	931.6769
CAPS2	4.995237	3.664896	0	5.326404
CAPSL	14.15317	0	4.018438	0
CAPZA1	263.915	464.8309	819.7614	422.5614
CAPZA2	199.8095	439.1767	1659.615	273.4221
CAPZA3	25.80873	5.497344	0	3.994803
CAPZB	1751.663	1537.424	6481.741	1268.128
CARD10	412.1071	671.2867	164.756	304.0489
CARD11	713.4864	513.0854	152.7006	573.9201
CARD14	232.2785	40.31385	12.05531	96.31914
CARD16	45.78968	23.82182	0	32.84616
CARD17	0	0.610816	0	1.331601
CARD18	0	6.10816	0	6.658005
CARD6	104.0674	163.0879	0	212.6123
CARD8	50.78491	117.2767	0	104.7526
CARD9	92.41189	32.98406	365.6779	124.2828
CARHSP1	1173.048	988.911	180.8297	727.9419
CARKD	529.4952	413.5224	152.7006	351.0988
CARM1	467.8872	211.9531	184.8482	198.4086
CARNS1	99.90475	3.664896	12.05531	22.63722
CARS	1147.24	265.7049	490.2494	230.367
CARS2	488.7007	371.9869	36.16594	251.2287
CARTPT	0	0	20.09219	0
CASC1	29.97142	4.886528	0	17.75468
CASC2	25.80873	4.275712	4.018438	4.882537
CASC3	360.4896	367.7112	329.5119	325.7984
CASC4	52.44999	159.423	40.18438	262.7693
CASC5	4.995237	31.15161	8.036876	21.30562
CASD1	5.827777	38.48141	52.23969	51.04471
CASK	411.2746	219.8937	309.4197	272.0905
CASKIN1	7.492856	2.443264	8.036876	6.658005
CASKIN2	54.11507	131.3254	84.3872	116.2932
CASP1	221.4555	77.57363	152.7006	111.4106
CASP10	218.1254	130.1038	0	224.5967
CASP12	2.497619	1.221632	24.11063	5.770271
CASP14	0	0.610816	0	0
CASP2	223.1206	149.6499	40.18438	225.0406
CASP3	244.7666	216.2288	12.05531	251.2287
CASP4	269.7428	503.9232	32.1475	404.8067
CASP5	10.82301	1.221632	48.22126	4.43867
CASP6	137.369	226.0019	68.31345	155.3535
CASP7	416.2698	97.73055	8.036876	115.8493
CASP8	136.5365	156.9797	92.42408	202.8472
CASP8AP2	19.14841	21.98937	20.09219	33.73389
CASP9	127.3786	105.6712	40.18438	81.67153
CASQ1	8.325396	0	642.9501	3.107069



CASQ2	0	0	4.018438	0.443867
CASR	60.77539	76.35199	8.036876	7.545739
CASS4	0	0.610816	0	0.443867
CAST	384.6333	645.6325	160.7375	545.0687
CASZ1	223.9531	244.3264	76.35032	295.1716
CAT	148.192	194.8503	289.3275	152.6903
CATSPER1	3.330158	102.6171	8.036876	72.35032
CATSPER2	34.13412	36.03814	4.018438	32.84616
CATSPER2F	0.83254	3.664896	0	11.54054
CATSPER3	6.660317	3.05408	0	9.765074
CATSPER4	0	0	8.036876	0
CATSPERB	99.07221	14.65958	0	33.29003
CATSPERD	1.665079	0	0	1.331601
CATSPERG	4.995237	15.88121	0	6.214138
CAV1	9.157935	250.4345	892.0932	253.4481
CAV2	98.23967	400.0844	28.12907	264.5447
CAV3	2.497619	0	64.29501	0.887734
CBFA2T2	130.7087	133.7687	72.33188	177.1029
CBFA2T3	0	0.610816	36.16594	4.882537
CBFB	92.41189	94.67647	401.8438	104.7526
CBL	108.2301	100.1738	212.9772	139.3742
CBLB	156.5174	81.84934	108.4978	96.31914
CBLC	1880.707	1027.392	24.11063	376.3992
CBLL1	45.78968	56.19507	76.35032	77.67673
CBLN1	18.31587	0	0	0
CBLN2	0	12.82714	4.018438	5.770271
CBLN3	34.13412	15.2704	4.018438	34.62163
CBLN4	0	0	0	0
CBR1	996.5499	399.4736	297.3644	316.4772
CBR3	122.3833	37.25977	136.6269	42.16737
CBR3-AS1	19.98095	7.940607	32.1475	14.20374
CBR4	75.7611	183.8556	52.23969	86.1102
CBS	258.0873	4.275712	8.036876	11.98441
CBWD1	34.13412	34.81651	4.018438	16.86695
CBWD2	15.81825	30.5408	0	20.86175
CBWD3	0	0	0	0
CBWD5	0	0	0	0
CBWD6	30.80396	17.71366	0	11.09668
CBX1	42.45952	194.8503	192.885	173.9959
CBX2	12.48809	26.8759	16.07375	29.29522
CBX3	626.9023	899.1211	108.4978	586.7922
CBX3P2	2.497619	5.497344	16.07375	5.326404
CBX4	241.4365	139.8769	160.7375	191.3067
CBX5	283.896	167.9744	72.33188	237.4689
CBX6	4.162698	18.32448	313.4382	26.18815
CBX7	147.3595	120.3307	116.5347	103.421
CBX8	134.0389	97.11974	92.42408	68.79939

CBY1	347.169	307.2404	28.12907	178.4345
CBY3	3.330158	1.221632	0	2.219335
CC2D1A	835.0372	282.8078	184.8482	250.7849
CC2D1B	496.1936	412.3008	739.3926	406.1383
CC2D2A	63.27301	96.50892	176.8113	113.1861
CC2D2B	0	0	0	0.887734
CCAR1	286.3936	385.4249	683.1345	383.5011
CCBE1	1.665079	1.221632	20.09219	1.775468
CCBL1	136.5365	50.08691	40.18438	37.28483
CCBL2	59.11031	196.6827	36.16594	119.4002
CCBP2	1.665079	0.610816	8.036876	9.765074
CCDC101	159.0151	66.57894	321.475	63.02912
CCDC102A	41.62698	33.59488	349.6041	54.59564
CCDC102B	0	2.443264	0	0.887734
CCDC103	8.325396	86.12505	0	45.27444
CCDC104	334.6809	309.6837	305.4013	183.7609
CCDC105	0	0	4.018438	0
CCDC106	44.1246	29.31917	108.4978	67.02392
CCDC107	59.94285	122.1632	48.22126	63.91685
CCDC108	26.64127	19.54611	0	7.545739
CCDC109B	128.2111	77.57363	64.29501	42.61123
CCDC11	16.65079	18.93529	0	15.97921
CCDC110	0	1.221632	0	0
CCDC111	6.660317	28.09753	28.12907	23.96882
CCDC112	32.46904	28.09753	40.18438	13.31601
CCDC113	53.28253	35.42733	0	38.17256
CCDC114	700.1658	7.940607	12.05531	22.63722
CCDC115	180.6611	265.7049	40.18438	166.4501
CCDC116	6.660317	1.221632	8.036876	0.887734
CCDC117	34.13412	53.7518	44.20282	66.13619
CCDC12	805.8983	395.1979	1016.665	269.4273
CCDC120	164.8428	98.34137	48.22126	122.0634
CCDC121	0.83254	10.99469	0	7.989606
CCDC122	1.665079	11.6055	0	5.326404
CCDC124	944.9324	384.2032	1378.324	276.973
CCDC125	91.57935	81.84934	8.036876	97.20688
CCDC126	11.65555	8.551423	4.018438	8.433473
CCDC127	82.42142	204.6233	36.16594	127.3898
CCDC129	3.330158	12.82714	0	19.08628
CCDC13	2.497619	4.886528	4.018438	2.219335
CCDC130	884.9896	186.2989	68.31345	173.9959
CCDC132	49.11984	97.11974	277.2722	96.31914
CCDC134	32.46904	51.30854	52.23969	26.18815
CCDC135	70.76586	0.610816	12.05531	3.994803
CCDC136	4.995237	10.38387	68.31345	17.31081
CCDC137	619.4094	389.7006	8.036876	246.7901
CCDC138	8.325396	9.773055	4.018438	7.989606

CCDC14	375.4753	235.1641	0	400.8119
CCDC140	0	0	0	0
CCDC141	3.330158	0	0	0.887734
CCDC142	67.43571	68.41139	8.036876	74.12579
CCDC144A	0	0	0	0
CCDC144B	0	0	0	0
CCDC144C	0	0	0	0.443867
CCDC144N	0	0	0	0
CCDC146	32.46904	43.36793	0	108.3036
CCDC147	0.83254	0	0	0.443867
CCDC148	6.660317	9.773055	16.07375	15.97921
CCDC149	132.3738	103.2279	28.12907	157.1289
CCDC15	8.325396	10.38387	4.018438	7.545739
CCDC150	147.3595	75.13036	0	69.68712
CCDC151	69.93332	1.221632	0	0.887734
CCDC152	1.665079	4.275712	4.018438	1.775468
CCDC153	157.35	36.64896	4.018438	37.7287
CCDC154	10.82301	0	4.018438	2.219335
CCDC155	0.83254	1.832448	8.036876	0
CCDC157	51.61745	12.82714	0	19.97402
CCDC158	0	14.04877	4.018438	12.42828
CCDC159	223.1206	149.0391	12.05531	112.2984
CCDC160	2.497619	7.329791	8.036876	13.31601
CCDC162P	1.665079	0	0	0
CCDC163P	30.80396	9.162239	0	13.75988
CCDC164	139.0341	0.610816	16.07375	8.433473
CCDC165	42.45952	475.8256	44.20282	387.9398
CCDC166	0.83254	0	0	0.887734
CCDC167	133.2063	202.7909	28.12907	142.4813
CCDC168	1.665079	0.610816	4.018438	0
CCDC169	0	0	0	0
CCDC169-S	0	0	0	0
CCDC17	119.0532	26.26509	16.07375	30.18296
CCDC18	34.96666	31.15161	4.018438	28.40749
CCDC19	333.0158	11.6055	16.07375	21.74948
CCDC22	275.5706	116.055	634.9132	101.2017
CCDC23	93.24443	120.9416	506.3232	74.12579
CCDC24	392.1261	226.0019	8.036876	258.7745
CCDC25	204.8047	235.1641	152.7006	169.1133
CCDC27	0	0	0	0
CCDC28A	167.3405	86.73587	80.36876	66.58005
CCDC28B	84.91904	39.70304	221.0141	48.82537
CCDC3	0	0.610816	0	10.65281
CCDC30	7.492856	7.329791	4.018438	6.658005
CCDC33	12.48809	0	12.05531	4.43867
CCDC34	159.8476	70.24383	132.6085	44.83057
CCDC36	0	0	0	0

CCDC37	5.827777	1.221632	4.018438	2.219335
CCDC38	0	1.221632	4.018438	0
CCDC39	5.827777	5.497344	16.07375	4.43867
CCDC40	198.1444	50.08691	0	101.2017
CCDC41	55.78015	29.92998	92.42408	40.3919
CCDC42	0	0	12.05531	0
CCDC42B	362.9873	1.832448	16.07375	0.887734
CCDC43	25.80873	131.3254	48.22126	102.9771
CCDC47	155.6849	1311.422	204.9403	862.4336
CCDC48	19.98095	1.832448	4.018438	2.219335
CCDC50	438.7484	324.3433	116.5347	360.42
CCDC51	104.0674	136.212	40.18438	91.43661
CCDC53	167.3405	120.9416	333.5304	74.12579
CCDC54	0	0.610816	0	0.443867
CCDC56	446.2412	607.1511	421.936	396.8171
CCDC57	533.6579	346.9435	12.05531	305.8244
CCDC58	198.977	105.0603	168.7744	59.92205
CCDC59	79.9238	61.0816	100.461	48.82537
CCDC6	347.169	455.0579	60.27657	379.5063
CCDC60	4.162698	0	0	0
CCDC61	294.719	296.8566	136.6269	130.9408
CCDC62	2.497619	0	20.09219	2.219335
CCDC63	0	0	0	0
CCDC64	464.5571	108.1144	36.16594	240.5759
CCDC64B	2771.524	752.5253	20.09219	692.4325
CCDC65	34.96666	1.832448	8.036876	3.994803
CCDC66	37.46428	20.76774	40.18438	23.08108
CCDC67	0	1.832448	0	0.887734
CCDC68	34.96666	53.7518	4.018438	53.26404
CCDC69	19.98095	1.832448	4.018438	5.326404
CCDC7	4.162698	4.886528	0	4.43867
CCDC70	0	0	0	0.443867
CCDC71	104.0674	100.7846	40.18438	86.55407
CCDC71L	103.2349	92.23321	285.3091	106.5281
CCDC72	457.0642	156.9797	200.9219	132.2724
CCDC73	3.330158	1.832448	0	0.443867
CCDC74A	176.4984	17.10285	0	22.19335
CCDC74B	1.665079	0.610816	0	0.887734
CCDC75	14.98571	9.162239	208.9588	11.09668
CCDC76	23.31111	46.42201	32.1475	39.50416
CCDC77	89.08173	103.8387	4.018438	74.12579
CCDC78	161.5127	61.0816	0	39.0603
CCDC79	0	0.610816	0	1.331601
CCDC8	0	1.221632	56.25813	2.219335
CCDC80	402.9492	301.1323	2861.128	512.2225
CCDC81	7.492856	6.10816	4.018438	8.433473
CCDC82	31.6365	97.73055	24.11063	102.5333

CCDC83	0	0	0	0
CCDC84	128.2111	120.9416	88.40564	122.9512
CCDC85A	8.325396	26.8759	28.12907	18.64241
CCDC85B	900.8078	457.5011	3435.765	304.4928
CCDC85C	277.2357	298.0782	64.29501	217.9387
CCDC86	137.369	191.7962	44.20282	129.1653
CCDC87	0	2.443264	0	4.882537
CCDC88A	17.48333	67.80057	104.4794	66.58005
CCDC88B	745.9555	340.8353	221.0141	380.394
CCDC88C	265.5801	103.2279	64.29501	124.7266
CCDC89	1.665079	3.05408	4.018438	2.219335
CCDC9	355.4944	304.7972	417.9176	199.7402
CCDC90A	90.74681	163.0879	100.461	107.4158
CCDC90B	92.41189	186.2989	144.6638	108.7474
CCDC91	25.80873	106.282	8.036876	84.7786
CCDC92	104.9	92.23321	4.018438	85.66633
CCDC93	225.6182	187.5205	52.23969	237.4689
CCDC94	240.6039	87.34668	48.22126	76.78899
CCDC96	79.9238	12.82714	0	29.73909
CCDC97	186.4889	274.2564	56.25813	194.8576
CCDC99	124.8809	73.29791	28.12907	74.56966
CCHCR1	0	31.15161	0	16.42308
CCIN	0	0	16.07375	0
CCK	8.325396	1.832448	4.018438	10.20894
CCKAR	0	0	16.07375	0
CCKBR	0	0	8.036876	0
CCL1	0	0	0	0
CCL11	0.83254	4.275712	76.35032	4.882537
CCL13	0.83254	0	16.07375	0.443867
CCL14	0	0	0	0
CCL14-CCL	0	0	0	0
CCL15	1.665079	0	0	0.443867
CCL16	0	0	0	0
CCL17	0	0	0	0.443867
CCL18	0	0	0	0
CCL19	0	0	188.8666	0.443867
CCL2	9.990475	29.92998	88.40564	26.63202
CCL20	252.2595	28.09753	0	34.62163
CCL21	0.83254	0	281.2907	0
CCL22	0.83254	1.832448	0	1.775468
CCL23	0	0	0	0
CCL24	97.40713	13.43795	0	19.53015
CCL25	0	0	4.018438	0
CCL26	696.8356	0.610816	0	1.331601
CCL27	6.660317	1.221632	32.1475	7.101872
CCL28	20.81349	43.36793	4.018438	47.49377
CCL3	0	0	0	0

CCL3L1	0	0	0	0
CCL3L3	0	0	0	0
CCL4	8.325396	0	4.018438	2.663202
CCL4L1	0	0	0	0
CCL4L2	0	0	0	0
CCL5	96.57459	80.62771	514.3601	56.37111
CCL7	1.665079	3.05408	0	1.331601
CCL8	0	0	0	0.443867
CCM2	546.146	456.2795	1121.144	375.0676
CCNA1	0	0.610816	0	0
CCNA2	106.5651	80.62771	28.12907	44.83057
CCNB1	487.8682	514.307	20.09219	305.3805
CCNB1IP1	162.3452	236.3858	16.07375	137.5988
CCNB2	185.6563	251.0454	36.16594	203.2911
CCNB3	0	3.664896	0	5.326404
CCNC	173.1682	169.8068	88.40564	138.9304
CCND1	622.7396	860.0289	152.7006	708.4118
CCND2	6.660317	9.162239	44.20282	19.08628
CCND3	3577.423	277.9213	699.2082	426.5562
CCNDBP1	107.3976	297.4674	269.2353	208.6175
CCNE1	120.7182	128.8822	24.11063	72.35032
CCNE2	13.32063	15.88121	16.07375	20.86175
CCNF	353.8293	134.9903	12.05531	111.4106
CCNG1	135.704	212.564	245.1247	124.7266
CCNG2	46.62222	117.8875	132.6085	131.3846
CCNH	144.8619	152.0932	216.9957	106.0842
CCNI	146.527	448.9497	735.3742	432.7703
CCNI2	72.43094	14.04877	0	14.20374
CCNJ	9.157935	14.65958	16.07375	24.41269
CCNJL	14.15317	50.08691	20.09219	84.7786
CCNK	185.6563	175.915	104.4794	216.1632
CCNL1	1545.193	419.6306	1105.07	522.8753
CCNL2	2396.049	1840.999	775.5585	2160.301
CCNO	336.346	92.84402	16.07375	114.0738
CCNT1	119.8857	64.13568	44.20282	91.88047
CCNT2	112.3928	103.2279	229.051	229.4792
CCNY	213.1301	315.7918	333.5304	309.8192
CCNYL1	34.13412	94.67647	72.33188	131.8285
CCP110	28.30635	29.31917	16.07375	59.47818
CCPG1	1.665079	28.70835	0	45.27444
CCR1	2.497619	5.497344	4.018438	11.98441
CCR10	0.83254	2.443264	4.018438	3.107069
CCR2	0	2.443264	24.11063	5.326404
CCR3	2.497619	0	4.018438	3.107069
CCR4	0	0	0	0
CCR5	6.660317	7.329791	24.11063	8.87734
CCR6	81.58888	3.05408	4.018438	4.43867

CCR7	1.665079	3.664896	12.05531	2.219335
CCR8	0	0	0	0
CCR9	0	12.21632	0	3.550936
CCRL1	44.95714	1.221632	0	4.882537
CCRL2	39.9619	17.10285	4.018438	26.63202
CCRN4L	19.98095	16.49203	20.09219	21.30562
CCS	561.9642	660.9029	783.5954	504.6768
CCT2	912.4634	679.2273	2800.851	507.7839
CCT3	2215.388	2388.901	2800.851	1441.236
CCT4	1126.426	1090.306	3885.83	660.4741
CCT5	1515.222	2184.889	3648.742	1118.545
CCT6A	873.334	1274.773	458.1019	852.2247
CCT6B	19.98095	17.71366	40.18438	17.75468
CCT6P1	30.80396	23.82182	160.7375	19.08628
CCT6P3	29.13889	18.32448	4.018438	23.08108
CCT7	1426.973	1533.759	2607.966	873.0864
CCT8	1184.704	744.5846	1876.611	476.7132
CCT8L2	0	0	0	0
CCZ1	33.30158	50.08691	0	31.07069
CCZ1B	24.97619	23.21101	40.18438	13.75988
CD101	24.97619	4.886528	4.018438	12.42828
CD109	25.80873	167.9744	20.09219	107.4158
CD14	32.46904	62.30323	285.3091	164.2308
CD151	4866.194	4686.18	168.7744	2595.29
CD160	2.497619	0.610816	0	5.770271
CD163	0	0	12.05531	0.443867
CD163L1	3.330158	208.8991	8.036876	102.5333
CD164	357.1595	398.8628	229.051	330.2371
CD164L2	114.8905	4.886528	0	7.101872
CD177	39.9619	0	4.018438	0
CD180	0.83254	1.221632	4.018438	2.663202
CD19	0	0.610816	48.22126	0.887734
CD1A	0.83254	0	4.018438	0.443867
CD1B	0	0	0	0
CD1C	0	0	0	0
CD1D	0	0	0	0
CD1E	0	0	0	0
CD2	3.330158	0	36.16594	0
CD200	11.65555	14.04877	32.1475	17.31081
CD200R1	0	0	24.11063	0
CD200R1L	0	0	0	0
CD207	0	0	0	0
CD209	0	0	20.09219	1.331601
CD22	0.83254	0.610816	0	9.321207
CD226	0	0	8.036876	1.331601
CD24	2343.599	3373.537	56.25813	2039.569
CD244	1.665079	0	0	0

CD247	8.325396	0.610816	12.05531	0.443867
CD248	61.60793	95.28729	1985.108	94.09981
CD27	3.330158	4.275712	4.018438	4.882537
CD274	12.48809	3.05408	0	12.87214
CD276	185.6563	381.1492	8.036876	588.5677
CD28	0	0	4.018438	0.443867
CD2AP	92.41189	230.2776	192.885	271.2027
CD2BP2	1135.584	800.1689	405.8622	631.1789
CD300A	44.1246	3.05408	0	5.326404
CD300C	0.83254	0	56.25813	1.775468
CD300E	1.665079	0.610816	8.036876	0.887734
CD300LB	0.83254	0	4.018438	0
CD300LD	0	0	0	0
CD300LF	5.827777	2.443264	0	3.994803
CD300LG	0	0	32.1475	0.887734
CD302	0	1.221632	0	0.887734
CD320	530.3277	211.3423	16.07375	173.552
CD33	0	0	0	0
CD34	3.330158	9.162239	1024.702	51.04471
CD36	14.98571	2.443264	2153.883	5.326404
CD37	29.97142	6.10816	502.3048	24.85655
CD38	1.665079	0	12.05531	5.770271
CD3D	0	1.832448	0	1.331601
CD3E	7.492856	0.610816	28.12907	0.887734
CD3EAP	25.80873	40.31385	4.018438	20.41788
CD3G	30.80396	1.832448	385.7701	0.443867
CD4	3.330158	0.610816	4.018438	2.219335
CD40	139.8666	11.6055	8.036876	16.42308
CD40LG	0.83254	0	4.018438	0
CD44	3524.14	2278.954	164.756	1823.85
CD46	581.1126	944.3215	12.05531	845.1228
CD47	1745.835	1002.96	550.526	904.1571
CD48	0	0	0	0.443867
CD5	5.827777	1.832448	12.05531	1.775468
CD52	2.497619	1.221632	0	0.443867
CD53	6.660317	6.10816	52.23969	15.09148
CD55	706.8261	131.9362	28.12907	150.4709
CD58	36.63174	123.9956	0	63.02912
CD59	3480.848	3724.756	68.31345	2360.929
CD5L	0.83254	0.610816	76.35032	5.326404
CD6	12.48809	3.664896	68.31345	9.321207
CD63	11199.32	5373.959	3725.092	4177.676
CD68	827.5443	846.5909	1394.398	787.864
CD69	0	0	0	0
CD7	3.330158	0	0	2.219335
CD70	0	0	0	0.443867
CD72	54.94761	5.497344	12.05531	25.30042



CD74	7681.01	488.6528	8085.097	3608.195
CD79A	3.330158	4.275712	100.461	0.443867
CD79B	0.83254	1.832448	96.44251	1.331601
CD80	0	0	0	0.443867
CD81	840.865	1089.085	1093.015	1048.414
CD82	472.8825	240.0507	52.23969	314.2578
CD83	14.98571	15.88121	92.42408	15.97921
CD84	8.325396	1.832448	140.6453	6.214138
CD86	1.665079	0.610816	0	0.887734
CD8A	0.83254	1.221632	20.09219	2.663202
CD8B	0	0.610816	0	0.887734
CD9	804.2332	2238.03	1000.591	1268.128
CD93	1.665079	1.221632	40.18438	1.331601
CD96	2.497619	2.443264	20.09219	0.443867
CD97	2301.139	305.408	40.18438	328.0177
CD99	0	0	0	0
CD99L2	139.8666	89.78995	80.36876	122.5073
CD99P1	0	0	0	0
CDA	100.7373	139.8769	16.07375	379.5063
CDADC1	64.93809	43.36793	233.0694	48.82537
CDAN1	48.2873	122.1632	76.35032	166.0063
CDC123	402.1166	576.6103	606.7841	392.8223
CDC14A	8.325396	7.329791	48.22126	9.321207
CDC14B	68.26825	58.63833	16.07375	90.99274
CDC14C	0	1.221632	0	0
CDC16	396.2888	444.0632	578.6551	316.9211
CDC20	914.961	356.1057	48.22126	232.5863
CDC20B	0.83254	0	0	0
CDC23	85.75158	97.11974	140.6453	98.09461
CDC25A	176.4984	40.92467	20.09219	41.7235
CDC25B	1193.862	535.6856	44.20282	539.7423
CDC25C	136.5365	47.64364	8.036876	27.51976
CDC26	28.30635	37.25977	0	23.52495
CDC27	71.5984	209.5099	257.18	142.0374
CDC34	933.2769	317.6243	1446.638	328.4616
CDC37	3809.701	1178.264	1366.269	1287.658
CDC37L1	26.64127	99.563	88.40564	63.91685
CDC40	17.48333	42.1463	76.35032	37.28483
CDC42	780.9221	717.7087	1462.711	570.813
CDC42BPA	265.5801	350.6084	237.0878	489.5853
CDC42BPB	702.6634	1170.323	200.9219	1080.816
CDC42BPG	193.1492	388.4789	96.44251	537.0791
CDC42EP1	2617.504	2781.045	100.461	1361.34
CDC42EP2	434.5857	351.2192	321.475	307.5998
CDC42EP3	28.30635	59.24915	60.27657	69.24325
CDC42EP4	643.5531	397.0304	52.23969	256.999
CDC42EP5	2753.208	224.1695	96.44251	104.7526

CDC42SE1	252.2595	423.2955	438.0097	616.0874
CDC42SE2	203.9722	174.0825	277.2722	189.9751
CDC45	278.0682	219.8937	60.27657	99.87008
CDC5L	152.3547	203.4017	1169.365	170.8888
CDC6	136.5365	251.0454	0	162.4553
CDC7	67.43571	47.03283	8.036876	41.7235
CDC73	16.65079	160.0338	136.6269	111.4106
CDCA2	66.60317	61.69241	0	40.3919
CDCA3	288.0587	196.6827	32.1475	130.053
CDCA4	225.6182	198.5152	4.018438	122.9512
CDCA5	542.8158	424.5171	8.036876	327.13
CDCA7	245.5992	413.5224	0	427.0001
CDCA7L	34.13412	81.23852	12.05531	89.21727
CDCA8	330.5182	122.774	12.05531	116.2932
CDCP1	737.6301	279.7537	24.11063	325.7984
CDCP2	0.83254	0	0	0
CDH1	743.4578	1883.146	48.22126	1975.208
CDH10	0	1.221632	24.11063	3.550936
CDH11	39.9619	122.1632	590.7104	280.0801
CDH12	0	0.610816	0	0
CDH13	3.330158	13.43795	192.885	32.84616
CDH15	2.497619	1.832448	8.036876	11.09668
CDH16	3.330158	0	0	0.887734
CDH17	975.7364	186.2989	44.20282	76.78899
CDH18	0	0	20.09219	0
CDH19	0	0	16.07375	0.887734
CDH2	4.162698	82.46015	48.22126	158.9044
CDH20	0	0	12.05531	0
CDH22	0.83254	0	4.018438	0.443867
CDH23	14.98571	4.886528	52.23969	4.882537
CDH24	204.8047	112.3901	92.42408	151.3587
CDH26	348.0015	10.38387	0	33.29003
CDH3	871.6689	484.3771	24.11063	620.0822
CDH4	6.660317	0	20.09219	3.550936
CDH5	1.665079	25.65427	80.36876	32.84616
CDH6	9.157935	13.43795	4.018438	12.87214
CDH7	0	0	4.018438	0
CDH8	3.330158	2.443264	84.3872	8.87734
CDH9	0	0	8.036876	0.443867
CDHR1	0	0.610816	12.05531	0.443867
CDHR2	1697.548	177.7474	16.07375	465.1726
CDHR3	29.97142	5.497344	0	3.994803
CDHR4	144.8619	2.443264	12.05531	4.882537
CDHR5	725.9745	141.7093	20.09219	118.5125
CDIPT	546.146	687.1679	309.4197	470.499
CDK1	276.4031	416.5765	28.12907	197.077
CDK10	2301.139	742.1414	249.1432	552.6144

CDK11A	149.0246	87.9575	60.27657	90.105
CDK11B	208.9674	142.3201	261.1985	147.3639
CDK12	84.0865	155.1473	160.7375	187.7557
CDK13	86.58412	196.0719	526.4154	230.367
CDK14	33.30158	73.90873	100.461	82.1154
CDK15	1.665079	0	48.22126	0.443867
CDK16	852.5205	377.4843	851.9089	490.9169
CDK17	27.47381	33.59488	237.0878	39.50416
CDK18	417.1023	320.0676	285.3091	454.076
CDK19	94.90951	57.4167	80.36876	65.24845
CDK2	278.0682	156.3689	128.59	166.894
CDK20	137.369	62.30323	60.27657	63.91685
CDK2AP1	382.9682	331.6731	510.3416	358.6446
CDK2AP2	913.2959	621.8106	1056.849	580.5781
CDK3	0	0	0	0
CDK4	809.2285	583.3292	1273.845	397.7048
CDK5	119.8857	175.3042	667.0607	193.0822
CDK5R1	10.82301	6.10816	12.05531	18.64241
CDK5R2	0	1.221632	36.16594	0.887734
CDK5RAP1	228.9484	218.6721	68.31345	209.0614
CDK5RAP2	345.5039	233.9425	116.5347	176.6591
CDK5RAP3	1929.827	3862.8	759.4848	3573.573
CDK6	71.5984	286.4727	140.6453	176.2152
CDK7	168.173	122.774	176.8113	114.9616
CDK8	35.7992	52.53017	144.6638	44.83057
CDK9	751.7832	293.1917	1599.338	359.0884
CDKAL1	9.990475	58.02752	8.036876	44.83057
CDKL1	16.65079	8.551423	0	4.43867
CDKL2	2.497619	2.443264	8.036876	4.882537
CDKL3	14.98571	5.497344	4.018438	8.433473
CDKL4	7.492856	0	0	0.443867
CDKL5	2.497619	6.718975	0	1.775468
CDKN1A	373.8103	113.001	12.05531	167.3379
CDKN1B	52.44999	367.7112	442.0282	235.6934
CDKN1C	58.27777	7.329791	229.051	18.19855
CDKN2A	1939.817	3.664896	36.16594	9.321207
CDKN2AIP	58.27777	113.6118	84.3872	106.5281
CDKN2AIP1	95.74205	95.28729	24.11063	38.17256
CDKN2B	59.11031	6.10816	168.7744	29.73909
CDKN2B-A'	24.14365	0	4.018438	0
CDKN2C	134.0389	105.6712	216.9957	59.92205
CDKN2D	189.819	65.96812	44.20282	38.61643
CDKN3	178.996	134.3795	24.11063	56.37111
CDNF	10.82301	14.65958	48.22126	23.08108
CDO1	0	0.610816	4.018438	0.443867
CDON	35.7992	33.59488	52.23969	23.08108
CDR1	0	0.610816	0	0.443867

CDR2	93.24443	222.337	136.6269	217.051
CDR2L	957.4205	610.816	172.7928	655.5916
CDRT1	14.15317	9.773055	0	12.87214
CDRT15	0	0	0	0
CDRT15L2	0	0	0	0
CDRT15P1	7.492856	0.610816	0	0.887734
CDRT15P2	0	0	0	0
CDRT4	0	0.610816	0	0.443867
CDRT7	0	0	0	0
CDS1	267.2452	295.6349	12.05531	268.9834
CDS2	221.4555	396.4196	100.461	255.2235
CDSN	0	39.70304	0	11.09668
CDT1	422.9301	189.9638	80.36876	149.5832
CDV3	1132.254	660.9029	160.7375	549.9512
CDX1	0	0	12.05531	0
CDX2	255.5897	100.7846	36.16594	11.09668
CDX4	0	0	0	0
CDY1	0	0	0	0
CDY1B	0	0	0	0
CDY2A	0	0	0	0
CDY2B	0	0	0	0
CDYL	37.46428	133.1579	96.44251	133.604
CDYL2	0.83254	1.221632	24.11063	1.331601
CEACAM1	427.9253	194.2395	4.018438	272.9782
CEACAM16	0.83254	1.221632	28.12907	1.775468
CEACAM18	0	0	0	0
CEACAM19	123.2159	88.56831	4.018438	152.2464
CEACAM20	0	1.832448	0	0.443867
CEACAM21	0	0	0	0.443867
CEACAM22	0.83254	0	4.018438	2.219335
CEACAM3	1.665079	0	0	0.443867
CEACAM4	0	0	0	0
CEACAM5	1201.355	176.5258	176.8113	180.21
CEACAM6	2721.572	5252.406	225.0325	2743.542
CEACAM7	357.1595	10.99469	0	122.5073
CEACAM8	0	0	0	0
CEBPA	281.3984	59.24915	1739.984	138.0426
CEBPB	1220.503	1125.734	2624.04	1729.75
CEBPD	1668.409	364.0463	1422.527	450.0812
CEBPE	5.827777	0	32.1475	0.443867
CEBPG	556.969	341.4461	120.5531	193.526
CEBPZ	128.2111	230.2776	305.4013	156.2412
CECR1	0	2.443264	0	0
CECR2	0	0.610816	8.036876	0
CECR3	0	0	8.036876	0
CECR5	193.1492	337.1704	76.35032	130.4969
CECR5-AS1	0	0.610816	0	1.775468

CECR6	4.162698	0.610816	0	1.775468
CECR7	0	0	0	0
CEL	4.162698	0.610816	8.036876	0.887734
CELA1	4.995237	5.497344	289.3275	9.321207
CELA2A	0	0	0	0
CELA2B	0.83254	1.221632	0	0.887734
CELA3A	0.83254	0.610816	0	0.887734
CELA3B	0	1.221632	8.036876	0
CELF1	541.9833	373.8194	1044.794	525.0947
CELF2	43.29206	25.04345	976.4804	34.62163
CELF3	3.330158	1.832448	40.18438	3.107069
CELF4	20.81349	6.10816	116.5347	7.989606
CELF5	9.157935	0.610816	12.05531	0.443867
CELF6	1.665079	0.610816	40.18438	14.20374
CELP	2.497619	0	0	0
CELSR1	79.9238	317.6243	32.1475	358.2007
CELSR2	46.62222	21.98937	64.29501	51.48857
CELSR3	319.6952	129.493	52.23969	181.9855
CEMP1	236.4412	78.18444	4.018438	105.1965
CEND1	0	0	4.018438	0.443867
CENPA	72.43094	75.13036	4.018438	48.82537
CENPB	1343.719	1161.161	8691.881	906.8203
CENPBD1	18.31587	62.30323	0	91.43661
CENPC1	37.46428	57.4167	4.018438	53.70791
CENPE	91.57935	87.34668	0	74.12579
CENPF	404.6142	414.1332	20.09219	324.4668
CENPH	89.91427	72.6871	4.018438	41.7235
CENPI	17.48333	34.20569	4.018438	17.75468
CENPJ	109.0627	78.79526	76.35032	69.24325
CENPK	52.44999	49.47609	20.09219	47.0499
CENPL	20.81349	31.15161	24.11063	30.62682
CENPM	355.4944	204.6233	0	100.3139
CENPN	295.5516	112.3901	0	86.99794
CENPO	188.1539	75.13036	0	78.1206
CENPP	26.64127	9.773055	16.07375	4.882537
CENPQ	9.990475	21.37856	0	10.20894
CENPT	886.6547	473.9932	20.09219	495.3556
CENPV	292.2214	109.3361	245.1247	63.47298
CENPVL1	0	0	0	0
CENPW	356.3269	123.3848	20.09219	81.22766
CEP104	80.75634	91.62239	4.018438	105.6404
CEP112	5.827777	22.60019	56.25813	25.30042
CEP120	43.29206	41.53548	32.1475	45.27444
CEP128	6.660317	12.21632	0	9.321207
CEP135	27.47381	29.92998	4.018438	43.49897
CEP152	39.9619	30.5408	0	48.3815
CEP164	346.3365	185.0772	20.09219	189.5312

CEP170	1.665079	20.76774	16.07375	39.94803
CEP170P1	0	0	0	0.887734
CEP19	13.32063	18.93529	4.018438	13.31601
CEP192	109.0627	260.8184	40.18438	339.5583
CEP250	111.5603	204.0125	233.0694	232.1425
CEP290	29.13889	37.25977	28.12907	38.61643
CEP350	89.08173	138.6552	289.3275	153.578
CEP41	23.31111	75.74118	36.16594	59.47818
CEP44	40.79444	75.74118	68.31345	80.33993
CEP55	99.90475	111.1685	16.07375	115.4054
CEP57	119.0532	170.4177	40.18438	131.8285
CEP57L1	6.660317	15.88121	0	8.433473
CEP63	87.41666	108.1144	273.2538	73.23806
CEP68	63.27301	42.1463	16.07375	49.26924
CEP70	208.1349	92.84402	0	72.35032
CEP72	47.45476	50.08691	4.018438	33.29003
CEP76	19.98095	21.37856	40.18438	26.63202
CEP78	39.9619	40.92467	24.11063	19.08628
CEP85	88.2492	93.45484	60.27657	114.0738
CEP85L	22.47857	0.610816	64.29501	4.43867
CEP89	99.07221	91.01158	44.20282	48.3815
CEP95	149.0246	289.5268	128.59	241.9075
CEP97	8.325396	6.718975	8.036876	7.989606
CEPT1	151.5222	144.7634	200.9219	154.0219
CER1	0	0	0	0
CERCAM	2.497619	32.98406	36.16594	43.94283
CERK	137.369	419.0197	88.40564	225.9283
CERKL	14.15317	3.05408	16.07375	7.101872
CERS1	1.665079	0	0	2.219335
CERS2	896.6451	1751.209	506.3232	1665.833
CERS3	0	0.610816	0	0
CERS4	0	0.610816	4.018438	1.775468
CERS5	288.8912	194.2395	120.5531	153.1341
CERS6	39.9619	87.9575	52.23969	66.58005
CES1	2.497619	0	16.07375	0
CES1P1	0	0	0	0
CES1P2	0	0	12.05531	0
CES2	2474.308	145.985	68.31345	164.6747
CES3	277.2357	3.05408	0	3.550936
CES4A	42.45952	53.7518	16.07375	68.79939
CES5A	0	0	0	0
CES5AP1	0	0	0	0
CETN1	0	0.610816	0	0
CETN2	395.4563	1033.501	425.9544	422.1175
CETN3	43.29206	111.1685	582.6735	68.79939
CETN4P	0	0	0	1.331601
CETP	0	0	0	0.887734

CFB	0	0	0	0
CFC1	0	0	0	0
CFC1B	0	0	0	0
CFD	48.2873	4.886528	0	7.989606
CFDP1	398.7865	407.4142	1623.449	234.3618
CFH	370.4801	1216.135	44.20282	2244.192
CFHR1	0	0	0	0.887734
CFHR2	0.83254	7.329791	48.22126	6.214138
CFHR3	0	3.05408	0	9.765074
CFHR4	0	0	0	0
CFHR5	0	0	4.018438	0
CFI	631.065	38.48141	0	593.4502
CFL1	9746.541	6473.427	19453.26	5609.148
CFL1P1	18.31587	14.04877	421.936	30.18296
CFL2	28.30635	24.43264	273.2538	37.28483
CFLAR	633.5626	487.4311	44.20282	637.393
CFLAR-AS1	0	3.664896	0	3.994803
CFP	103.2349	25.04345	2487.413	37.28483
CFTR	560.2991	305.408	4.018438	399.4803
CG030	32.46904	7.329791	0	11.09668
CGA	0	0	0	0
CGB	0	1.832448	0	0.887734
CGB1	0	0	0	0
CGB2	0	0	0	0
CGB5	0	0.610816	12.05531	0.443867
CGB7	0	1.832448	0	1.331601
CGB8	0	1.221632	0	0
CGGBP1	204.8047	209.5099	277.2722	209.9491
CGN	703.4959	1165.437	92.42408	1680.924
CGNL1	0.83254	29.31917	0	77.67673
CGREF1	84.0865	4.275712	0	1.331601
CGRRF1	47.45476	58.63833	176.8113	36.84096
CH25H	0	3.05408	4.018438	6.658005
CHAC1	139.0341	4.886528	24.11063	45.27444
CHAC2	9.157935	7.329791	12.05531	5.770271
CHAD	0.83254	12.82714	12.05531	27.07589
CHADL	12.48809	21.37856	44.20282	12.87214
CHAF1A	277.2357	113.6118	28.12907	100.3139
CHAF1B	95.74205	58.02752	32.1475	43.0551
CHAMP1	18.31587	45.20038	44.20282	47.49377
CHAT	0	0.610816	64.29501	0.443867
CHCHD1	392.9587	599.2105	606.7841	355.0936
CHCHD10	1470.265	267.5374	225.0325	193.526
CHCHD2	1272.953	1724.944	425.9544	1104.785
CHCHD3	206.4698	265.0941	216.9957	139.8181
CHCHD4	94.07697	42.1463	16.07375	39.94803
CHCHD5	279.7333	252.267	84.3872	138.9304

CHCHD6	269.7428	46.42201	200.9219	33.29003
CHCHD7	682.6825	322.5108	381.7516	259.6622
CHCHD8	636.8928	791.0067	52.23969	476.2693
CHD1	63.27301	120.3307	225.0325	150.9148
CHD1L	258.9198	452.6146	124.5716	283.631
CHD2	531.1603	510.6421	281.2907	739.0386
CHD3	842.5301	1032.279	1651.578	1194.446
CHD4	1319.575	1253.394	2965.607	1530.01
CHD5	4.162698	4.886528	128.59	9.321207
CHD6	37.46428	107.5036	140.6453	204.1788
CHD7	323.0254	227.8344	438.0097	367.078
CHD8	300.5468	320.6784	1434.582	509.1155
CHD9	49.11984	74.51955	333.5304	82.55927
CHDH	139.8666	129.493	4.018438	64.80458
CHEK1	128.2111	173.4717	32.1475	102.5333
CHEK2	169.0055	96.50892	24.11063	71.46259
CHEK2P2	0	0	0	0
CHERP	288.0587	174.0825	104.4794	204.6227
CHFR	283.896	149.0391	192.885	183.3171
CHGA	1.665079	6.718975	40.18438	4.43867
CHGB	0	0	0	0
CHI3L1	15.81825	1.221632	20.09219	25.74429
CHI3L2	0.83254	9.773055	4.018438	80.33993
CHIA	4.995237	1.221632	4.018438	4.882537
CHIC1	29.97142	37.25977	56.25813	43.49897
CHIC2	92.41189	105.0603	827.7982	86.1102
CHID1	946.5975	348.1651	212.9772	342.6653
CHIT1	1.665079	0	8.036876	1.331601
CHKA	743.4578	549.1235	88.40564	695.5396
CHKB	14.98571	13.43795	0	6.658005
CHKB-CPT1	0	0	0	0
CHL1	0	1.832448	8.036876	2.663202
CHM	10.82301	56.19507	12.05531	38.17256
CHML	14.15317	53.7518	0	66.58005
CHMP1A	1962.296	1122.069	506.3232	746.1405
CHMP1B	293.0539	428.7928	357.641	391.9346
CHMP2A	2650.806	2045.623	5485.168	1119.433
CHMP2B	82.42142	247.3805	349.6041	184.6487
CHMP3	8.325396	20.15693	60.27657	15.53535
CHMP4A	583.6102	752.5253	0	366.6342
CHMP4B	2152.947	2986.89	6529.962	2131.893
CHMP4C	275.5706	177.1366	8.036876	96.31914
CHMP5	155.6849	514.307	373.7147	338.6705
CHMP6	208.1349	414.744	313.4382	214.8316
CHMP7	170.6706	261.4292	297.3644	305.3805
CHN1	7.492856	11.6055	36.16594	18.64241
CHN2	47.45476	25.65427	160.7375	36.3971



CHODL	1.665079	0	4.018438	2.219335
CHODL-AS:	0	0.610816	0	0
CHORDC1	45.78968	59.85996	12.05531	62.14138
CHP	333.0158	574.167	200.9219	831.8068
CHP2	1.665079	0.610816	64.29501	3.107069
CHPF	627.7348	678.6165	779.577	964.523
CHPF2	895.8126	446.5065	695.1898	526.8702
CHPT1	69.93332	146.5958	148.6822	121.6196
CHRAC1	388.796	184.4664	196.9035	150.0271
CHRD	6.660317	5.497344	192.885	9.765074
CHRD1	0	1.832448	52.23969	7.101872
CHRD2	6.660317	1.221632	0	7.545739
CHRFAM7/	0.83254	1.221632	0	0
CHRM1	2.497619	0	8.036876	0.443867
CHRM2	0	0	32.1475	0
CHRM3	0	7.329791	16.07375	13.31601
CHRM4	0	0	20.09219	0.443867
CHRM5	0	0.610816	4.018438	1.331601
CHRNA1	0	0	24.11063	0
CHRNA10	16.65079	5.497344	0	7.545739
CHRNA2	0.83254	0.610816	12.05531	0
CHRNA3	1.665079	0.610816	16.07375	1.331601
CHRNA4	0	0	20.09219	0.443867
CHRNA5	29.13889	7.940607	0	4.43867
CHRNA6	0	0	0	0
CHRNA7	0	0.610816	4.018438	1.775468
CHRNA9	0	0	0	1.331601
CHRN1	22.47857	24.43264	24.11063	73.23806
CHRN2	0.83254	1.832448	12.05531	3.107069
CHRN3	0	0.610816	12.05531	0
CHRN4	0.83254	0	0	0.887734
CHRN5	0	0	12.05531	0.887734
CHRN6	0.83254	4.886528	0	0.443867
CHRN7	0	0.610816	28.12907	1.331601
CHST1	4.162698	14.04877	56.25813	10.20894
CHST10	2.497619	5.497344	36.16594	7.101872
CHST11	4.162698	106.8928	28.12907	159.7921
CHST12	53.28253	59.85996	538.4707	117.6248
CHST13	10.82301	0	0	2.663202
CHST14	9.990475	55.58425	48.22126	114.5177
CHST15	14.98571	18.93529	44.20282	119.4002
CHST2	4.162698	56.19507	128.59	47.93764
CHST3	0.83254	50.69772	8.036876	106.0842
CHST4	121.5508	614.4808	8.036876	465.6165
CHST5	45.78968	0.610816	0	0
CHST6	74.92856	0	0	2.663202
CHST7	32.46904	164.3095	108.4978	51.93244

CHST8	0	0.610816	0	0.443867
CHST9	0.83254	1.221632	0	6.214138
CHST9-AS1	0	0	0	1.775468
CHSY1	19.98095	56.80588	124.5716	92.32434
CHSY3	4.995237	5.497344	44.20282	4.43867
CHTF18	955.7554	257.1535	12.05531	288.9574
CHTF8	357.1595	443.4524	313.4382	373.2922
CHTOP	941.6023	607.1511	1691.762	597.0011
CHUK	90.74681	49.47609	92.42408	66.13619
CHURC1	58.27777	104.4495	305.4013	61.25365
CHURC1-FI	0	0	0	0
CIAO1	555.3039	473.3824	590.7104	383.5011
CIAPIN1	333.8484	320.0676	80.36876	250.7849
CIB1	4917.811	1697.458	1551.117	1270.791
CIB2	16.65079	33.59488	393.8069	36.84096
CIB3	0	0	0	0.443867
CIB4	0	1.832448	0	0
CIC	424.5952	282.197	1442.619	359.9762
CIDEA	0	0	16.07375	0
CIDEB	249.7619	171.6393	4.018438	144.7006
CIDEC	24.97619	25.65427	8.036876	7.989606
CIDECP	75.7611	28.09753	8.036876	41.7235
CIITA	37.46428	3.664896	24.11063	30.62682
CILP	62.44047	259.5968	904.1486	557.9408
CILP2	0	2.443264	16.07375	8.433473
CINP	218.9579	293.8025	36.16594	156.6851
CIR1	230.6135	281.5862	180.8297	180.6539
CIRBP	1739.175	1756.096	928.2592	1352.019
CIRBP-AS1	11.65555	4.886528	4.018438	7.989606
CIRH1A	237.2738	258.3751	237.0878	205.9543
CISD1	102.4024	126.4389	0	67.46779
CISD2	240.6039	289.5268	24.11063	190.8628
CISD3	1396.169	785.5093	325.4935	344.8847
CISH	187.3214	14.65958	40.18438	17.75468
CIT	154.8524	77.57363	100.461	93.21207
CITED1	3.330158	0.610816	32.1475	0.887734
CITED2	94.07697	174.0825	807.706	156.6851
CITED4	191.4841	764.7416	32.1475	392.3784
CIZ1	382.1357	255.3211	341.5672	234.8057
CKAP2	65.77063	62.30323	12.05531	46.16217
CKAP2L	18.31587	39.70304	12.05531	35.06549
CKAP4	663.534	402.5277	221.0141	482.0396
CKAP5	410.442	299.2998	405.8622	269.8711
CKB	2572.547	625.4755	21386.13	704.417
CKLF	188.9865	167.9744	0	70.13099
CKLF-CMTI	0	0	0	0
CKM	39.12936	3.05408	18316.04	10.20894

CKMT1A	140.6992	32.98406	4.018438	33.29003
CKMT1B	154.8524	14.04877	0	19.53015
CKMT2	0.83254	6.718975	349.6041	15.97921
CKS1B	110.7278	122.774	32.1475	68.35552
CKS2	376.3079	191.7962	112.5163	116.737
CLASP1	134.8714	166.7528	64.29501	241.0198
CLASP2	45.78968	46.42201	200.9219	69.24325
CLASRP	796.7404	544.8478	438.0097	492.2485
CLC	0	0	4.018438	0
CLCA1	233.1111	0	24.11063	1.331601
CLCA2	3.330158	0	0	0
CLCA3P	0	0	0	0.443867
CLCA4	0	0.610816	4.018438	0.887734
CLCC1	99.90475	202.1801	48.22126	178.8784
CLCF1	92.41189	378.7059	96.44251	367.078
CLCN1	89.08173	102.6171	16.07375	22.63722
CLCN2	298.8817	76.96281	40.18438	66.58005
CLCN3	226.4508	326.1757	92.42408	402.5874
CLCN4	64.10555	32.98406	152.7006	43.0551
CLCN5	227.2833	29.31917	245.1247	30.62682
CLCN6	163.1778	86.73587	64.29501	134.4917
CLCN7	1209.68	562.5615	84.3872	745.2527
CLCNKA	0	0.610816	0	3.107069
CLCNKB	2.497619	1.221632	0	0.443867
CLDN1	1039.842	798.3365	8.036876	822.0417
CLDN10	392.1261	2776.769	80.36876	1424.369
CLDN11	0.83254	1.832448	12.05531	2.663202
CLDN12	83.25396	268.1482	12.05531	202.4034
CLDN14	4.995237	6.718975	0	3.107069
CLDN15	1213.843	116.055	100.461	177.5468
CLDN16	3.330158	3.664896	0	7.989606
CLDN17	0	0	0	0
CLDN18	4235.961	14.65958	48.22126	13.31601
CLDN19	0	0	0	0.443867
CLDN2	1062.321	3733.918	4.018438	2094.608
CLDN20	0	1.832448	12.05531	0
CLDN22	0	0	0	0
CLDN23	306.3746	188.1313	20.09219	216.1632
CLDN24	0	0	0	0
CLDN25	0	0	0	0
CLDN3	235.6087	430.6252	24.11063	407.4699
CLDN4	3350.139	4177.981	136.6269	3337.436
CLDN5	9.990475	14.65958	803.6876	20.86175
CLDN6	0	18.93529	0	105.6404
CLDN7	2626.662	1488.558	68.31345	1407.946
CLDN8	0	0	0	2.219335
CLDN9	38.29682	81.23852	4.018438	122.9512

CLDND1	214.7952	131.9362	84.3872	126.0582
CLDND2	54.94761	12.21632	0	8.433473
CLEC10A	0.83254	1.221632	36.16594	1.331601
CLEC11A	3.330158	14.65958	52.23969	27.51976
CLEC12A	0	1.221632	0	0.443867
CLEC12B	0	0	8.036876	0
CLEC14A	0	1.221632	64.29501	4.882537
CLEC16A	207.3024	109.9469	20.09219	124.2828
CLEC17A	0.83254	0	0	0
CLEC18A	10.82301	0.610816	0	0.887734
CLEC18B	0	0	0	1.331601
CLEC18C	0	0	0	0
CLEC19A	0	0	0	0.443867
CLEC1A	0	0	4.018438	0
CLEC1B	0.83254	0	4.018438	0
CLEC2A	0	0	0	0
CLEC2B	1.665079	1.221632	4.018438	5.326404
CLEC2D	34.13412	57.4167	4.018438	179.3223
CLEC2L	3.330158	0	0	0
CLEC3A	0	0	4.018438	0
CLEC3B	5.827777	44.58956	18352.21	163.7869
CLEC4A	4.995237	4.275712	104.4794	4.882537
CLEC4C	0	0	4.018438	0.443867
CLEC4D	6.660317	1.832448	12.05531	3.550936
CLEC4E	0.83254	24.43264	12.05531	36.3971
CLEC4F	0	0	0	0
CLEC4G	0	0	0	0
CLEC4GP1	1.665079	0	0	0
CLEC4M	0	1.221632	48.22126	0.443867
CLEC5A	1.665079	1.832448	28.12907	7.101872
CLEC6A	7.492856	5.497344	20.09219	4.882537
CLEC7A	4.162698	1.832448	4.018438	0
CLEC9A	0	0	0	0
CLECL1	0	0	0	0
CLGN	0	1.832448	0	11.09668
CLIC1	0	0	0	0
CLIC2	3.330158	5.497344	0	21.30562
CLIC3	200.642	21.98937	4.018438	30.18296
CLIC4	47.45476	49.47609	56.25813	97.65074
CLIC5	12.48809	3.05408	16.07375	7.989606
CLIC6	201.4746	23.21101	12.05531	89.21727
CLINT1	308.8722	807.4987	566.5998	851.7808
CLIP1	53.28253	94.06566	257.18	146.4761
CLIP2	333.8484	357.9381	120.5531	262.3254
CLIP3	24.97619	32.37325	237.0878	62.58525
CLIP4	20.81349	58.02752	48.22126	77.23286
CLK1	653.5436	788.5634	1948.942	788.7517

CLK2	509.5142	339.0029	655.0054	384.8327
CLK2P	14.15317	3.664896	72.33188	10.20894
CLK3	407.9444	347.5543	1768.113	443.867
CLK4	134.0389	142.3201	880.0379	180.21
CLLU1	0.83254	1.221632	0	1.775468
CLLU10S	11.65555	1.832448	0	12.87214
CLMN	278.0682	809.942	12.05531	789.6394
CLMP	9.990475	14.65958	257.18	39.50416
CLN3	392.1261	459.3336	160.7375	385.2766
CLN5	91.57935	174.0825	8.036876	108.7474
CLN6	288.8912	630.3621	92.42408	469.6113
CLN8	173.1682	89.78995	76.35032	121.6196
CLNK	0	0	0	0
CLNS1A	326.3555	532.0207	148.6822	299.1664
CLOCK	30.80396	47.64364	20.09219	50.15697
CLP1	77.42618	119.7199	156.7191	82.55927
CLPB	75.7611	83.07097	253.1616	73.23806
CLPP	736.7975	256.5427	574.6366	187.7557
CLPS	0	0	0	0.887734
CLPSL1	0	3.05408	0	1.775468
CLPSL2	0	5.497344	0	2.663202
CLPTM1	590.2706	1067.706	996.5726	695.0958
CLPTM1L	949.9277	1059.766	401.8438	739.9263
CLPX	78.25872	189.9638	554.5445	160.236
CLRN1	1.665079	0	8.036876	0
CLRN1-AS1	0.83254	0.610816	0	0
CLRN2	0	0	0	0.443867
CLRN3	315.5325	175.3042	0	29.29522
CLSPN	59.94285	81.84934	8.036876	62.14138
CLSTN1	1399.499	1257.059	120.5531	1225.961
CLSTN2	0	0	8.036876	0
CLSTN3	325.523	244.9372	32.1475	553.0583
CLTA	1662.582	1932.011	13666.71	1205.099
CLTB	1743.338	1678.522	1719.891	1069.72
CLTC	785.0848	2313.771	6859.474	2012.493
CLTCL1	8.325396	1.832448	8.036876	2.663202
CLU	686.8452	4660.526	381.7516	7705.088
CLUAP1	99.90475	75.74118	353.6225	66.13619
CLUL1	0	1.221632	0	3.994803
CLVS1	0.83254	1.221632	40.18438	2.663202
CLVS2	0	0	16.07375	0
CLYBL	70.76586	14.04877	172.7928	15.97921
CMA1	2.497619	1.832448	24.11063	3.550936
CMAHP	1.665079	0.610816	24.11063	7.101872
CMAS	292.2214	484.9879	586.692	372.4044
CMBL	285.5611	243.7156	68.31345	139.3742
CMC1	140.6992	87.9575	385.7701	59.47818

CMC2	323.0254	127.6605	60.27657	102.5333
CMIP	245.5992	175.3042	393.8069	262.7693
CMKLR1	2.497619	4.886528	44.20282	11.09668
CMPK1	720.1467	897.2886	896.1117	559.2724
CMPK2	70.76586	58.02752	8.036876	64.36072
CMTM1	4.995237	5.497344	0	7.545739
CMTM2	31.6365	4.886528	0	15.09148
CMTM3	19.98095	368.322	385.7701	232.1425
CMTM4	457.8968	288.3051	132.6085	300.9418
CMTM5	0	0.610816	24.11063	0.887734
CMTM6	270.5754	357.3273	20.09219	238.3566
CMTM7	948.2626	307.8512	458.1019	158.4605
CMTM8	74.09602	54.36262	52.23969	51.93244
CMYA5	4.995237	4.275712	325.4935	13.31601
CN5H6.4	0	4.275712	0	1.775468
CNBD1	0	0	0	0
CNBP	1735.845	1436.639	5850.846	1020.006
CNDP1	0	0.610816	0	1.775468
CNDP2	843.3626	1048.16	1101.052	601.4398
CNEP1R1	18.31587	29.31917	68.31345	32.40229
CNFN	14.98571	17.71366	8.036876	16.86695
CNGA1	8.325396	31.76243	24.11063	21.30562
CNGA2	0	0	0	0.443867
CNGA3	0.83254	0	12.05531	0.443867
CNGA4	0	0.610816	8.036876	1.331601
CNGB1	0.83254	0.610816	12.05531	3.550936
CNGB3	0.83254	0	0	0
CNIH	119.0532	301.7431	590.7104	228.1476
CNIH2	18.31587	10.99469	60.27657	11.09668
CNIH3	0.83254	1.221632	16.07375	1.331601
CNIH4	223.1206	386.6465	269.2353	230.8108
CNKSR1	654.3761	302.9647	20.09219	265.8763
CNKSR2	0	0.610816	24.11063	0.443867
CNKSR3	24.14365	20.15693	36.16594	19.08628
CNN1	1.665079	2.443264	60.27657	6.214138
CNN2	1346.216	354.2733	526.4154	675.1217
CNN3	79.9238	249.2129	996.5726	342.6653
CNNM1	56.61269	33.59488	64.29501	25.74429
CNNM2	15.81825	29.31917	40.18438	35.95323
CNNM3	177.3309	437.3442	36.16594	311.1508
CNNM4	208.9674	311.5161	24.11063	186.868
CNO	175.6659	170.4177	245.1247	168.6695
CNOT1	863.3435	621.1998	1209.55	715.5136
CNOT10	201.4746	116.055	365.6779	90.105
CNOT2	345.5039	204.0125	968.4436	247.2339
CNOT3	380.4706	334.1163	984.5173	321.3597
CNOT4	91.57935	87.9575	341.5672	98.53848

CNOT6	169.8381	152.704	433.9913	182.8732
CNOT6L	52.44999	53.7518	321.475	49.71311
CNOT7	63.27301	192.407	216.9957	146.4761
CNOT8	165.6754	196.0719	301.3829	225.9283
CNP	171.5032	891.7913	253.1616	734.5999
CNPPD1	927.4491	739.0873	506.3232	574.8078
CNPY1	0	0.610816	4.018438	0.887734
CNPY2	714.319	642.5784	2101.643	489.1415
CNPY3	536.1555	545.4586	329.5119	487.366
CNPY4	76.59364	119.1091	136.6269	99.87008
CNR1	0	0.610816	0	0.443867
CNR2	2.497619	0.610816	0	1.775468
CNRIP1	2.497619	8.551423	148.6822	16.86695
CNST	52.44999	62.91404	64.29501	75.45739
CNTD1	2.497619	8.551423	4.018438	16.86695
CNTD2	11.65555	19.54611	0	39.50416
CNTF	0	0	0	0.887734
CNTFR	0	4.275712	144.6638	3.994803
CNTLN	17.48333	35.42733	32.1475	20.41788
CNTN1	0	0	24.11063	0.443867
CNTN2	0	0	16.07375	0
CNTN3	1.665079	0.610816	0	0
CNTN4	1.665079	0	4.018438	0
CNTN5	0	0	4.018438	0.443867
CNTN6	3.330158	0	24.11063	0
CNTNAP1	38.29682	9.162239	20.09219	11.09668
CNTNAP2	3.330158	1.832448	4.018438	7.989606
CNTNAP3	2.497619	53.14099	0	27.51976
CNTNAP3B	0	5.497344	0	3.994803
CNTNAP4	0	0	0	0
CNTNAP5	0	0.610816	8.036876	0.443867
CNTRL	96.57459	75.74118	124.5716	94.09981
CNTROB	278.9008	154.5364	32.1475	157.1289
COA5	145.6944	228.4452	12.05531	159.7921
COASY	830.8745	1120.847	285.3091	826.9243
COBL	210.6325	334.1163	4.018438	173.1081
COBLL1	68.26825	62.91404	4.018438	57.70271
COBRA1	1159.728	402.5277	180.8297	303.605
COCH	0	7.940607	0	3.107069
COG1	104.0674	141.0985	92.42408	154.4657
COG2	236.4412	449.5605	80.36876	337.3389
COG3	179.8285	162.477	160.7375	179.7661
COG4	764.2713	674.9516	590.7104	613.8681
COG5	59.11031	136.8228	60.27657	114.9616
COG6	26.64127	77.57363	52.23969	55.92724
COG7	273.073	188.1313	261.1985	162.8992
COG8	41.62698	94.06566	212.9772	63.47298

COIL	43.29206	97.11974	24.11063	96.76301
COL10A1	3.330158	53.7518	4.018438	29.29522
COL11A1	7.492856	22.60019	8.036876	51.04471
COL11A2	0	0	0	0.443867
COL12A1	181.4936	458.112	96.44251	885.5147
COL13A1	9.157935	4.886528	20.09219	30.62682
COL14A1	11.65555	64.13568	759.4848	226.3722
COL15A1	26.64127	47.64364	241.1063	81.22766
COL16A1	481.2079	346.3326	1575.228	725.2787
COL17A1	798.4055	130.1038	76.35032	161.5676
COL18A1	102.4024	872.856	68.31345	850.0053
COL18A1- <del>F</del>	0	1.221632	0	0.443867
COL19A1	0	1.832448	4.018438	0
COL1A1	1571.835	2949.019	31331.76	4175.457
COL1A2	1125.594	2777.38	26300.68	3809.267
COL20A1	0	0.610816	4.018438	2.663202
COL21A1	0	3.664896	0	21.30562
COL22A1	21.64603	27.48672	12.05531	137.5988
COL23A1	0	0	0	5.770271
COL24A1	1.665079	4.886528	12.05531	23.52495
COL25A1	1.665079	0.610816	16.07375	0.887734
COL27A1	31.6365	77.57363	32.1475	296.5032
COL28A1	4.995237	28.09753	20.09219	87.4418
COL2A1	6.660317	6.718975	92.42408	15.53535
COL3A1	819.2189	2690.644	34478.2	5467.998
COL4A1	123.2159	273.6455	1808.297	560.1602
COL4A2	34.13412	173.4717	345.5857	288.5136
COL4A3	3.330158	15.88121	0	65.24845
COL4A3BP	89.08173	102.0063	325.4935	121.1757
COL4A4	2.497619	24.43264	60.27657	67.91165
COL4A5	0.83254	210.7315	32.1475	169.1133
COL4A6	0	10.99469	16.07375	14.20374
COL5A1	83.25396	120.9416	1121.144	166.0063
COL5A2	357.1595	797.1148	2660.206	1286.327
COL5A3	14.15317	23.21101	245.1247	22.19335
COL6A1	94.07697	1315.087	470.1573	2412.861
COL6A2	50.78491	489.2636	1422.527	1012.461
COL6A3	31.6365	94.67647	711.2635	71.46259
COL6A4P1	1.665079	0	8.036876	0
COL6A4P2	10.82301	0.610816	0	0.443867
COL6A5	0	0.610816	36.16594	2.663202
COL6A6	2.497619	0	20.09219	1.775468
COL7A1	79.09126	1600.949	120.5531	1886.879
COL8A1	23.31111	84.90342	60.27657	184.6487
COL8A2	0.83254	9.773055	24.11063	56.37111
COL9A1	0	0	0	1.775468
COL9A2	857.5158	121.5524	24.11063	394.5978



COL9A3	6.660317	38.48141	4.018438	96.31914
COLEC10	0	3.05408	0	1.775468
COLEC11	0.83254	0	40.18438	2.219335
COLEC12	11.65555	29.31917	257.18	79.89606
COLQ	39.12936	4.275712	28.12907	25.30042
COMMD1	139.8666	233.9425	715.282	96.31914
COMMD1C	15.81825	30.5408	60.27657	22.63722
COMMD2	99.07221	100.1738	333.5304	82.55927
COMMD3	156.5174	153.3148	305.4013	108.7474
COMMD3-	0	0	0	0
COMMD4	761.7737	585.7725	723.3188	595.2257
COMMD5	365.4849	191.1854	4.018438	151.8025
COMMD6	418.7674	599.8213	68.31345	189.9751
COMMD7	558.6341	743.9738	369.6963	456.7392
COMMD8	48.2873	102.0063	96.44251	55.03951
COMMD9	338.8436	180.8015	341.5672	156.2412
COMP	2.497619	2.443264	36.16594	5.770271
COMT	1014.866	1145.891	192.885	633.3982
COMTD1	1237.154	1167.88	365.6779	589.0115
COPA	457.8968	897.2886	1398.416	1269.016
COPB1	328.8531	522.8585	1314.029	471.3868
COPB2	1065.651	983.4137	2001.182	856.2195
COPE	1854.066	791.0067	2013.237	706.6363
COPG1	1942.315	1299.816	1539.062	1481.184
COPG2	88.2492	91.62239	164.756	80.33993
COPS2	71.5984	229.6668	1169.365	187.3119
COPS3	213.1301	208.8991	610.8026	151.3587
COPS4	102.4024	290.1376	727.3373	144.7006
COPS5	498.6912	474.604	972.462	316.4772
COPS6	732.6348	2231.921	2776.741	1471.419
COPS7A	509.5142	773.9038	663.0423	603.6591
COPS7B	397.9539	269.3698	168.7744	297.3909
COPS8	139.8666	301.7431	188.8666	203.2911
COPZ1	1559.347	946.1539	767.5217	707.524
COPZ2	56.61269	70.85465	1731.947	102.0894
COQ10A	79.09126	29.31917	381.7516	56.37111
COQ10B	48.2873	113.001	68.31345	105.6404
COQ2	78.25872	128.8822	108.4978	94.09981
COQ3	124.0484	39.70304	124.5716	22.19335
COQ4	923.2864	313.3486	24.11063	258.3306
COQ5	109.0627	188.7421	64.29501	94.09981
COQ6	79.09126	155.7581	221.0141	128.2776
COQ7	246.4317	84.90342	253.1616	99.42621
COQ9	508.6817	343.8894	265.2169	379.5063
CORIN	2.497619	1.221632	16.07375	7.101872
CORO1A	495.361	260.2076	7237.207	482.4834
CORO1B	1723.357	1625.992	4360.005	1081.26

CORO1C	432.088	275.478	1261.79	286.7381
CORO2A	848.3578	860.6397	56.25813	528.2018
CORO2B	2.497619	0.610816	112.5163	4.882537
CORO6	10.82301	1.221632	112.5163	7.989606
CORO7	475.3801	113.001	16.07375	91.88047
CORO7-PA	0	0	0	0
CORT	8.325396	3.05408	0	5.770271
COTL1	2991.315	1806.183	1273.845	1299.643
COX10	44.95714	43.97875	4.018438	35.06549
COX11	126.546	39.09222	108.4978	40.3919
COX14	386.2984	277.9213	172.7928	194.4138
COX15	333.0158	130.1038	32.1475	138.4865
COX16	64.93809	134.9903	8.036876	91.43661
COX17	1988.105	354.8841	216.9957	251.6726
COX18	47.45476	105.0603	16.07375	95.87528
COX19	462.892	191.7962	88.40564	182.4293
COX20	32.46904	43.36793	0	30.18296
COX4I1	7286.386	2497.016	3648.742	1743.954
COX4I2	7.492856	5.497344	68.31345	3.994803
COX4NB	360.4896	249.2129	405.8622	184.6487
COX5A	1078.139	717.7087	4765.868	627.628
COX5B	2680.777	1282.103	1840.445	819.3785
COX6A1	1312.082	586.3833	12.05531	365.7464
COX6A2	2.497619	1.221632	192.885	0.443867
COX6B1	4245.119	2675.374	3785.369	1289.434
COX6B2	40.79444	54.97344	4.018438	92.32434
COX6C	2614.174	503.9232	8.036876	280.524
COX7A1	0	1.221632	0	0
COX7A2	1610.964	1112.907	498.2863	481.5957
COX7A2L	686.8452	586.9941	2258.362	433.6581
COX7B	1877.377	1388.995	486.231	628.9596
COX7B2	0	0	0	0
COX7C	2343.599	1337.687	1531.025	712.8504
COX8A	2868.099	1803.129	2455.266	1353.794
COX8C	0	0.610816	0	0.887734
CP	24.14365	201.5693	237.0878	1597.034
CPA1	0	0	0	0
CPA2	0	2.443264	20.09219	0.443867
CPA3	0	2.443264	12.05531	7.545739
CPA4	4.995237	1.221632	8.036876	7.101872
CPA5	0	0	0	2.219335
CPA6	0.83254	1.221632	0	0
CPAMD8	12.48809	4.275712	0	8.433473
CPB1	0	0	12.05531	0
CPB2	0	3.664896	4.018438	7.545739
CPD	240.6039	203.4017	88.40564	342.2215
CPE	53.28253	32.37325	349.6041	264.9886

CPEB1	1.665079	1.221632	12.05531	10.65281
CPEB2	44.95714	39.70304	221.0141	107.4158
CPEB3	5.827777	8.551423	124.5716	11.98441
CPEB4	33.30158	41.53548	273.2538	95.43141
CPLX1	13.32063	12.21632	12.05531	15.09148
CPLX2	11.65555	23.21101	44.20282	31.95843
CPLX3	2.497619	0	4.018438	3.550936
CPLX4	0	0.610816	4.018438	0
CPM	112.3928	25.04345	4.018438	60.80978
CPN1	0	0	16.07375	0.887734
CPN2	0	0	0	0
CPNE1	684.3475	812.3852	92.42408	798.9606
CPNE2	77.42618	230.2776	413.8991	153.578
CPNE3	193.9817	175.915	44.20282	133.1601
CPNE4	0	13.43795	0	43.0551
CPNE5	15.81825	0	4.018438	6.214138
CPNE6	4.995237	0	20.09219	0
CPNE7	454.5666	14.65958	16.07375	62.58525
CPNE8	35.7992	33.59488	132.6085	46.16217
CPNE9	9.157935	0	24.11063	0.443867
CPO	0.83254	3.05408	0	2.219335
CPOX	144.0293	61.69241	20.09219	86.1102
CPPED1	54.94761	61.0816	12.05531	100.7578
CPQ	193.1492	36.03814	1305.992	66.58005
CPS1	2079.684	1.221632	20.09219	3.107069
CPS1-IT1	0	0	0	0
CPSF1	1098.952	908.2833	683.1345	1026.664
CPSF2	67.43571	202.7909	188.8666	193.0822
CPSF3	425.4277	343.8894	634.9132	284.9626
CPSF3L	1201.355	739.0873	389.7885	615.6436
CPSF4	328.8531	293.1917	329.5119	220.158
CPSF4L	0.83254	0.610816	0	2.663202
CPSF6	375.4753	254.7103	807.706	195.3015
CPSF7	579.4475	376.8734	152.7006	530.865
CPT1A	460.3944	265.0941	24.11063	193.9699
CPT1B	7.492856	1.832448	4.018438	10.65281
CPT1C	7.492856	10.38387	80.36876	24.85655
CPT2	119.8857	163.0879	450.0651	136.711
CPVL	15.81825	213.1748	0	104.7526
CPXCR1	0	0	0	0
CPXM1	418.7674	203.4017	9314.739	859.3265
CPXM2	46.62222	34.81651	815.7429	292.5084
CPZ	9.157935	13.43795	196.9035	120.7318
CR1	3.330158	1.221632	4.018438	1.775468
CR1L	0	0	0	0
CR2	0	1.832448	4.018438	0
CRABP1	1.665079	4.886528	12.05531	3.994803

CRABP2	134.0389	1866.043	36.16594	2399.545
CRADD	63.27301	46.42201	44.20282	23.96882
CRAMP1L	167.3405	117.2767	40.18438	194.8576
CRAT	198.977	143.5417	377.7332	189.9751
CRB1	0	0	24.11063	0
CRB2	3.330158	0	12.05531	0.443867
CRB3	228.9484	216.2288	8.036876	126.5021
CRBN	93.24443	43.97875	188.8666	69.24325
CRCP	197.3119	357.9381	32.1475	254.3358
CRCT1	8.325396	1.221632	4.018438	0.443867
CREB1	129.8762	184.4664	184.8482	162.0115
CREB3	320.5277	850.2558	357.641	632.0666
CREB3L1	804.2332	36.03814	337.5488	25.30042
CREB3L2	114.0579	200.3476	32.1475	255.2235
CREB3L3	1.665079	0	12.05531	1.775468
CREB3L4	144.8619	258.986	16.07375	245.0146
CREB5	49.11984	105.6712	96.44251	109.6352
CREBBP	183.9912	207.6774	490.2494	265.8763
CREBL2	44.95714	194.2395	28.12907	165.5624
CREBZF	237.2738	325.5649	562.5813	468.2797
CREG1	258.0873	403.7493	819.7614	304.9366
CREG2	0	1.832448	4.018438	1.775468
CRELD1	238.9389	214.3964	269.2353	217.4948
CRELD2	295.5516	669.4543	64.29501	422.1175
CREM	38.29682	57.4167	136.6269	50.60084
CRH	0	0	8.036876	0
CRHBP	0	0	4.018438	0
CRHR1	0	0	0	0
CRHR2	0	3.05408	16.07375	3.550936
CRIM1	99.90475	133.7687	152.7006	166.894
CRIP1	4603.944	1540.478	538.4707	1162.044
CRIP2	4727.992	2756.002	598.7473	1761.264
CRIP3	20.81349	9.162239	582.6735	8.87734
CRIPAK	205.6373	123.3848	12.05531	288.0697
CRIPT	89.08173	84.2926	337.5488	66.58005
CRISP1	0	0	0	0.887734
CRISP2	14.15317	62.30323	0	116.2932
CRISP3	321.3603	1.221632	0	19.53015
CRISPLD1	0	0.610816	40.18438	1.775468
CRISPLD2	1.665079	11.6055	20.09219	31.51456
CRK	106.5651	176.5258	277.2722	190.8628
CRKL	315.5325	313.3486	204.9403	210.393
CRLF1	76.59364	166.7528	12.05531	261.8815
CRLF2	0	0	0	0
CRLF3	25.80873	42.1463	164.756	54.15178
CRLS1	390.4611	506.3664	156.7191	264.1009
CRMP1	0.83254	0.610816	8.036876	0.443867

CRNDE	99.07221	28.70835	0	24.85655
CRNKL1	180.6611	240.0507	417.9176	137.1549
CRNN	0	0.610816	0	0.443867
CROCC	442.0785	168.5852	40.18438	166.4501
CROCCP2	343.8388	123.9956	4.018438	93.65594
CROCCP3	17.48333	23.82182	0	36.84096
CROT	51.61745	125.2173	112.5163	113.63
CRP	0	0.610816	4.018438	51.04471
CRSP8P	0	0	8.036876	0.887734
CRTAC1	0.83254	0	16.07375	0
CRTAM	0	0.610816	4.018438	0.887734
CRTAP	412.9396	266.3158	956.3883	317.3649
CRTC1	208.1349	61.69241	56.25813	66.13619
CRTC2	696.8356	314.5702	723.3188	461.1778
CRTC3	70.76586	41.53548	60.27657	108.7474
CRX	0.83254	1.221632	4.018438	0
CRY1	29.97142	34.81651	36.16594	55.48338
CRY2	134.0389	74.51955	64.29501	104.3087
CRYAA	0	0.610816	4.018438	1.331601
CRYAB	77.42618	10.38387	1952.961	69.68712
CRYBA1	0.83254	0	0	0
CRYBA2	4.162698	0	0	1.331601
CRYBA4	0.83254	0.610816	4.018438	0
CRYBB1	0	0	16.07375	0.887734
CRYBB2	8.325396	0	4.018438	0.443867
CRYBB2P1	134.0389	32.37325	0	16.86695
CRYBB3	23.31111	6.10816	76.35032	3.994803
CRYGA	0	0	8.036876	0
CRYGB	0	0	0	0.443867
CRYGC	0	0	16.07375	0
CRYGD	0	0.610816	8.036876	0.443867
CRYGN	0	0	8.036876	0
CRYGS	44.95714	27.48672	4.018438	33.29003
CRYL1	544.4809	285.2511	208.9588	100.7578
CRYM	26.64127	58.63833	8.036876	49.71311
CRYM-AS1	0	1.221632	0	0.443867
CRYZ	104.0674	482.5446	20.09219	395.4855
CRYZL1	37.46428	50.08691	345.5857	36.3971
CS	569.4571	307.8512	373.7147	327.5739
CSAD	181.4936	41.53548	160.7375	86.1102
CSAG1	0	1.221632	0	0.443867
CSAG2	0	0	0	0
CSAG3	0	0	0	0
CSDA	734.2999	842.3152	912.1854	882.8515
CSDAP1	16.65079	22.60019	562.5813	24.41269
CSDC2	1.665079	0.610816	8.036876	1.331601
CSDE1	1196.359	1415.871	4388.134	1423.038

CSE1L	550.3087	574.167	176.8113	378.1747
CSF1	82.42142	133.1579	482.2126	381.2818
CSF1R	79.09126	68.41139	1129.181	215.2755
CSF2	18.31587	0	0	2.663202
CSF2RA	0	0	0	0
CSF2RB	0.83254	4.886528	16.07375	4.43867
CSF3	1.665079	0	0	2.219335
CSF3R	4.995237	4.275712	20.09219	31.95843
CSGALNAC	28.30635	83.07097	32.1475	151.3587
CSGALNAC	6.660317	65.35731	84.3872	77.23286
CSH1	0	0	0	0
CSH2	0	0	0	0
CSHL1	0	0	0	0
CSK	366.3174	299.9106	1422.527	381.7256
CSMD1	0.83254	1.221632	28.12907	0.443867
CSMD2	0.83254	1.221632	36.16594	0.887734
CSMD3	75.7611	36.03814	1563.172	45.27444
CSN1S1	0	0	0	0
CSN1S2AP	0	0	0	0
CSN1S2BP	0	0	0	0
CSN2	0	0	0	0
CSN3	0	0	0	0.443867
CSNK1A1	252.2595	395.1979	1426.546	374.1799
CSNK1A1L	10.82301	11.6055	196.9035	12.87214
CSNK1A1P	2.497619	3.664896	8.036876	2.663202
CSNK1D	1566.839	1189.259	719.3004	980.5022
CSNK1E	387.1309	440.3983	216.9957	494.4679
CSNK1G1	65.77063	84.2926	124.5716	130.4969
CSNK1G2	1973.119	679.2273	912.1854	655.5916
CSNK1G2-/-	1.665079	0	0	0
CSNK1G3	74.92856	77.57363	405.8622	80.33993
CSNK2A1	193.9817	210.1207	136.6269	270.315
CSNK2A1P	2.497619	1.832448	16.07375	7.101872
CSNK2A2	144.8619	110.5577	554.5445	115.4054
CSNK2B	0	0	0	0
CSPG4	4.995237	10.99469	28.12907	55.48338
CSPG4P1Y	0	0	0	0
CSPG5	1.665079	3.664896	8.036876	5.326404
CSPP1	235.6087	138.0444	36.16594	119.4002
CSRNP1	150.6897	43.97875	24.11063	50.15697
CSRNP2	69.93332	48.25446	4.018438	105.6404
CSRNP3	0	7.329791	8.036876	7.101872
CSRP1	1105.613	703.66	727.3373	533.5282
CSRP2	84.91904	231.4992	1233.66	197.9647
CSRP2BP	104.9	92.23321	92.42408	67.91165
CSRP3	13.32063	19.54611	233.0694	16.42308
CST1	1.665079	40.31385	0	360.42

CST11	0	0	0	0
CST2	0	2.443264	0	26.63202
CST3	5943.5	4353.285	120.5531	4371.646
CST4	0	8.551423	0	81.22766
CST5	0	1.221632	0	0.887734
CST6	5.827777	309.0729	16.07375	415.4595
CST7	1.665079	0	16.07375	3.107069
CST8	2.497619	0	0	0.443867
CST9	0	0.610816	0	0.443867
CST9L	0	0	0	0
CSTA	405.4468	8.551423	4.018438	6.214138
CSTB	3327.661	1902.692	433.9913	1691.577
CSTF1	114.8905	213.1748	148.6822	133.1601
CSTF2	151.5222	160.6446	56.25813	125.1705
CSTF2T	96.57459	204.6233	116.5347	211.2807
CSTF3	308.8722	159.423	285.3091	130.053
CSTL1	0	0	0	0.443867
CSTT	0	0	0	0
CT45A1	0	0	0	0
CT45A2	0	0	0	0
CT45A3	0	0	0	0
CT45A4	0	0	0	0
CT45A5	0	0	0	0
CT45A6	0	0	0	0
CT47A1	0	0	0	0
CT47A10	0	0	0	0
CT47A11	0	0	0	0
CT47A12	0	0	0	0
CT47A2	0	0	0	0
CT47A3	0	0	0	0
CT47A4	0	0	0	0
CT47A5	0	0	0	0
CT47A6	0	0	0	0
CT47A7	0	0	0	0
CT47A8	0	0	0	0
CT47A9	0	0	0	0
CT47B1	0.83254	0	0	0
CT62	2.497619	6.10816	0	8.433473
CTAG1A	0	0	0	0
CTAG1B	0	0	0	0
CTAG2	0	0	0	0.443867
CTAGE1	0	3.05408	20.09219	3.994803
CTAGE10P	0	0	8.036876	0.443867
CTAGE11P	0	0	0	0.887734
CTAGE15P	3.330158	1.221632	0	0.443867
CTAGE4	0	1.221632	0	2.219335
CTAGE5	117.3881	268.759	80.36876	351.0988

CTAGE6P	0	0	0	0
CTAGE7P	3.330158	2.443264	0	4.882537
CTAGE9	0.83254	0	0	0.443867
CTBP1	1505.232	1054.879	2965.607	1267.24
CTBP2	217.2928	188.1313	229.051	152.2464
CTBS	19.14841	80.62771	32.1475	84.33473
CTC1	74.09602	239.4399	56.25813	276.973
CTCF	155.6849	168.5852	534.4523	189.9751
CTCFL	0	0	0	0
CTDNEP1	664.3666	458.7228	2531.616	447.8618
CTDP1	186.4889	102.0063	92.42408	75.45739
CTDSP1	1146.407	889.348	1165.347	825.1488
CTDSP2	599.4285	266.3158	466.1388	356.8691
CTDSPL	891.6499	414.1332	100.461	334.2319
CTDSPL2	28.30635	44.58956	144.6638	83.447
CTF1	6.660317	75.74118	0	59.47818
CTGF	600.261	601.6537	172.7928	643.1633
CTH	18.31587	33.59488	4.018438	16.42308
CTHRC1	19.98095	55.58425	48.22126	83.00313
CTIF	153.1873	99.563	32.1475	173.552
CTLA4	0	0	4.018438	0.443867
CTNNA1	1990.602	1776.253	904.1486	1379.095
CTNNA2	0	0.610816	12.05531	2.219335
CTNNA3	2.497619	0	12.05531	2.219335
CTNNAL1	141.5317	221.1154	24.11063	80.7838
CTNNB1	1301.259	1531.926	9833.118	1513.143
CTNNBIP1	531.9928	262.04	490.2494	266.7641
CTNNBL1	341.3412	459.9444	530.4338	263.657
CTNND1	6.660317	12.21632	12.05531	19.97402
CTNND2	0	4.275712	60.27657	7.545739
CTNS	96.57459	94.06566	12.05531	128.7214
CTPS	237.2738	306.0188	208.9588	236.5811
CTPS2	147.3595	111.7793	518.3785	104.7526
CTR9	96.57459	130.7146	317.4566	136.2672
CTRB1	0	0	0	0
CTRB2	0	0	0	1.331601
CTRC	4.162698	1.221632	0	2.219335
CTRL	93.24443	3.664896	16.07375	19.97402
CTSA	1209.68	967.5325	2780.759	1410.609
CTSB	1651.759	3683.22	5782.532	3309.029
CTSC	971.5737	2010.195	683.1345	1719.097
CTSD	6163.29	10484.05	5814.68	8204.438
CTSE	2157.11	180.8015	84.3872	550.839
CTSF	75.7611	67.18975	325.4935	113.63
CTSG	0	0	4.018438	0.887734
CTSH	804.2332	1407.32	1422.527	1445.231
CTSK	112.3928	78.18444	831.8167	189.0873



CTSL1	122.3833	324.3433	72.33188	457.6269
CTSL1P2	0	0	0	2.663202
CTSL1P8	0	0	8.036876	0.443867
CTSL2	57.44523	149.6499	269.2353	116.737
CTSL3	55.78015	14.65958	610.8026	47.0499
CTSO	43.29206	126.4389	44.20282	148.6955
CTSS	1181.374	1112.907	5006.974	1093.244
CTSW	21.64603	3.05408	136.6269	14.64761
CTSZ	1401.997	1023.728	2969.626	1060.398
CTTN	2773.189	3644.128	373.7147	3219.367
CTTNBP2	39.9619	11.6055	40.18438	15.53535
CTTNBP2N	74.92856	111.7793	216.9957	136.2672
CTU1	292.2214	185.0772	28.12907	85.66633
CTU2	150.6897	170.4177	120.5531	89.66114
CTXN1	785.0848	92.84402	24.11063	76.34513
CTXN2	0	0	0	0.443867
CTXN3	0	0	4.018438	0
CUBN	0.83254	4.886528	0	11.98441
CUEDC1	78.25872	381.1492	52.23969	411.4647
CUEDC2	475.3801	324.9541	4082.733	319.1404
CUL1	359.6571	383.5924	783.5954	302.2734
CUL2	108.2301	214.3964	333.5304	137.1549
CUL3	162.3452	408.0251	1185.439	301.3857
CUL4A	392.9587	434.2901	176.8113	343.9969
CUL4B	97.40713	234.5533	229.051	191.7506
CUL5	60.77539	133.7687	160.7375	121.1757
CUL7	188.9865	343.8894	261.1985	434.9897
CUL9	376.3079	247.3805	349.6041	358.6446
CUTA	0	0	4.018438	0
CUTC	64.93809	76.35199	120.5531	45.7183
CUX1	307.2071	478.2689	237.0878	514.8857
CUX2	0	1.221632	8.036876	0.443867
CUZD1	0	0	0	0
CWC15	409.6095	510.6421	1912.777	382.6134
CWC22	356.3269	503.9232	5023.048	499.7943
CWC25	283.896	182.634	36.16594	178.4345
CWC27	89.91427	140.4877	225.0325	89.21727
CWF19L1	220.623	109.3361	60.27657	94.54367
CWF19L2	45.78968	74.51955	32.1475	43.94283
CWH43	18.31587	2.443264	12.05531	2.219335
CX3CL1	141.5317	109.9469	16.07375	305.8244
CX3CR1	3.330158	3.05408	4.018438	9.321207
CXADR	68.26825	151.4824	0	106.972
CXADRP2	0	0	0	0
CXADRP3	0	0	0	0
CXCL1	866.6737	1058.544	32.1475	1278.337
CXCL10	4.162698	6.718975	0	13.31601

CXCL11	9.157935	1.832448	0	2.663202
CXCL12	23.31111	12.21632	831.8167	35.50936
CXCL13	3.330158	0	0	0
CXCL14	504.519	261.4292	522.3969	984.497
CXCL16	616.0793	612.6484	40.18438	810.0573
CXCL17	1937.32	149.0391	4.018438	509.1155
CXCL2	611.0841	128.2714	4.018438	146.0322
CXCL3	656.0412	126.4389	0	116.737
CXCL5	5026.041	2097.542	12.05531	3165.216
CXCL6	6.660317	293.1917	0	1185.125
CXCL9	5.827777	1.832448	8.036876	6.214138
CXCR1	1.665079	0	4.018438	2.663202
CXCR2	0	0	0	9.321207
CXCR2P1	0	0	0	0.887734
CXCR3	75.7611	1.221632	88.40564	3.550936
CXCR4	37.46428	42.75712	265.2169	125.1705
CXCR5	4.162698	1.221632	20.09219	3.550936
CXCR6	0	1.221632	40.18438	2.663202
CXCR7	6.660317	36.64896	831.8167	31.51456
CXXC1	508.6817	328.619	683.1345	411.9086
CXXC11	0	0	0	0
CXXC1P1	0	0	0	0.443867
CXXC4	6.660317	10.99469	64.29501	13.31601
CXXC5	112.3928	192.407	128.59	212.6123
CXorf1	0	0	0	0
CXorf21	0.83254	4.886528	32.1475	20.41788
CXorf22	4.162698	1.832448	4.018438	2.219335
CXorf23	59.94285	36.64896	32.1475	53.26404
CXorf26	424.5952	518.5827	409.8807	173.1081
CXorf27	0	0	0	0.443867
CXorf28	0	0	0	0
CXorf30	13.32063	5.497344	0	9.765074
CXorf31	0.83254	0	0	0
CXorf36	0.83254	3.664896	40.18438	0
CXorf38	204.8047	86.73587	36.16594	81.22766
CXorf40A	43.29206	89.17913	56.25813	54.59564
CXorf40B	127.3786	196.6827	8.036876	110.079
CXorf41	0.83254	0	0	0.443867
CXorf48	0	0	0	0
CXorf49	0	0	0	0
CXorf49B	0	0	0	0
CXorf51A	0	0	0	0
CXorf51B	0	0	0	0
CXorf56	93.24443	141.0985	8.036876	66.58005
CXorf57	2.497619	20.76774	8.036876	11.09668
CXorf58	0	0	0	0
CXorf59	2.497619	1.832448	0	2.219335

CXorf61	15.81825	0.610816	0	0.443867
CXorf64	0	0	0	0
CXorf65	31.6365	0	12.05531	0.443867
CXorf66	0	0	0	0
CXorf68	0	0	0	0
CXorf69	4.162698	15.88121	4.018438	23.52495
CYB561	666.0317	1785.415	44.20282	1252.593
CYB561D1	114.8905	115.4442	44.20282	90.105
CYB561D2	494.5285	260.8184	72.33188	243.2391
CYB5A	238.1063	569.8913	1253.753	368.4096
CYB5B	452.069	615.0917	140.6453	404.8067
CYB5D1	37.46428	53.14099	24.11063	76.78899
CYB5D2	19.98095	142.9309	4.018438	110.5229
CYB5R1	274.7381	349.3867	393.8069	406.5822
CYB5R2	130.7087	105.0603	20.09219	72.35032
CYB5R3	730.9697	791.6175	940.3145	690.6571
CYB5R4	27.47381	47.03283	233.0694	45.27444
CYB5RL	13.32063	28.70835	32.1475	20.86175
CYBA	10624.04	6125.262	1289.919	5100.92
CYBASC3	249.7619	414.1332	12.05531	291.6206
CYBB	23.31111	15.88121	80.36876	20.41788
CYBRD1	114.0579	109.9469	0	283.631
CYC1	3058.75	982.8029	1225.624	811.3889
CYCS	361.3222	386.6465	64.29501	262.3254
CYCSP52	0.83254	0	0	0
CYFIP1	761.7737	866.137	1044.794	751.023
CYFIP2	108.2301	29.92998	333.5304	44.83057
CYGB	69.93332	77.57363	2290.51	122.0634
CYHR1	934.9419	618.1457	586.692	446.0864
CYLC1	0	0	0	0
CYLC2	0	0	0	0
CYLD	146.527	76.35199	221.0141	104.3087
CYMP	0	1.832448	0	1.331601
CYP11A1	0	1.832448	8.036876	0.443867
CYP11B1	0	0	0	0
CYP11B2	0	0	0	0
CYP17A1	0	1.221632	0	0
CYP19A1	2.497619	0	0	1.331601
CYP1A1	0	0	0	0
CYP1A2	0	1.832448	0	0.443867
CYP1B1	0	15.2704	0	26.63202
CYP1B1-AS	0	0.610816	0	11.09668
CYP20A1	90.74681	160.6446	56.25813	83.447
CYP21A1P	0	0	0	0
CYP21A2	0	0	0	0
CYP24A1	0.83254	12.21632	0	144.7006
CYP26A1	6.660317	7.940607	24.11063	14.64761

CYP26B1	4.162698	6.10816	40.18438	20.86175
CYP26C1	0	0	8.036876	0.887734
CYP27A1	79.9238	35.42733	184.8482	89.66114
CYP27B1	27.47381	16.49203	12.05531	19.53015
CYP27C1	0.83254	26.8759	4.018438	16.42308
CYP2A13	0	0	0	0
CYP2A6	0	0	8.036876	0.443867
CYP2A7	0	0	0	0.443867
CYP2B6	42.45952	48.25446	0	16.86695
CYP2B7P1	13.32063	41.53548	4.018438	47.0499
CYP2C18	305.542	346.3326	20.09219	343.1092
CYP2C19	17.48333	10.99469	0	27.51976
CYP2C8	11.65555	19.54611	4.018438	51.04471
CYP2C9	238.1063	100.7846	8.036876	141.5936
CYP2D6	64.93809	14.04877	36.16594	16.86695
CYP2D7P1	69.93332	21.37856	8.036876	12.42828
CYP2E1	34.96666	480.7122	0	204.6227
CYP2F1	0.83254	0	24.11063	0.443867
CYP2G1P	0	0.610816	0	0.887734
CYP2J2	73.26348	117.8875	40.18438	95.43141
CYP2R1	181.4936	34.81651	0	36.84096
CYP2S1	508.6817	727.4818	24.11063	107.8597
CYP2U1	4.995237	0.610816	24.11063	3.107069
CYP2W1	155.6849	30.5408	4.018438	38.61643
CYP39A1	0.83254	4.275712	4.018438	17.75468
CYP3A4	2.497619	3.664896	4.018438	3.994803
CYP3A43	0	3.05408	0	0.887734
CYP3A5	1864.056	2449.983	68.31345	1803.876
CYP3A7	0	8.551423	0	9.765074
CYP3A7-CY	0	0	0	0.443867
CYP46A1	0	0.610816	12.05531	0.443867
CYP4A11	19.14841	0.610816	4.018438	1.775468
CYP4A22	2.497619	0	0	0
CYP4B1	113.2254	5.497344	438.0097	29.29522
CYP4F11	86.58412	108.1144	32.1475	132.2724
CYP4F12	551.1412	41.53548	156.7191	27.96362
CYP4F2	273.9055	9.162239	196.9035	27.07589
CYP4F22	0	1.832448	52.23969	0.887734
CYP4F24P	5.827777	9.773055	152.7006	11.98441
CYP4F3	154.0198	74.51955	172.7928	57.70271
CYP4F30P	0	0	0	0
CYP4F35P	49.11984	42.75712	0	56.81498
CYP4F8	28.30635	6.718975	381.7516	31.95843
CYP4V2	191.4841	202.7909	84.3872	226.3722
CYP4X1	56.61269	212.564	0	205.5104
CYP4Z1	9.157935	1.832448	0	1.331601
CYP4Z2P	2.497619	0.610816	0	0.443867

CYP51A1	145.6944	622.4215	8.036876	214.3878
CYP7A1	0.83254	0	0	0
CYP7B1	3.330158	40.92467	200.9219	33.73389
CYP8B1	0	1.221632	0	0.887734
CYR61	71.5984	197.9044	880.0379	411.4647
CYS1	4.162698	219.2829	12.05531	35.06549
CYSLTR1	0	1.832448	16.07375	1.775468
CYSLTR2	0	0	0	0
CYSTM1	4603.111	969.9757	116.5347	485.5905
CYTH1	844.1951	599.2105	212.9772	503.3452
CYTH2	1372.858	976.0839	920.2223	829.5875
CYTH3	39.9619	82.46015	64.29501	99.87008
CYTH4	15.81825	44.58956	261.1985	72.35032
CYTIP	15.81825	10.99469	56.25813	8.87734
CYTL1	0	0	0	0
CYR1	0	0	0	0
D21S2088f	0	0	0	0
D2HGDH	383.8007	352.4408	52.23969	320.472
D4S234E	29.13889	4.275712	225.0325	18.19855
DAAM1	14.98571	31.15161	24.11063	54.59564
DAAM2	0.83254	0.610816	20.09219	2.219335
DAB1	0	0	36.16594	0
DAB2	13.32063	138.6552	237.0878	213.0562
DAB2IP	879.9943	225.3911	176.8113	388.8275
DACH1	4.995237	9.773055	68.31345	3.550936
DACH2	0	0	8.036876	0
DACT1	4.162698	3.05408	92.42408	26.18815
DACT2	1.665079	9.162239	24.11063	7.545739
DACT3	4.162698	4.886528	200.9219	13.31601
DAD1	867.5062	1608.889	1406.453	1061.73
DAG1	845.8602	558.8966	618.8395	560.604
DAGLA	59.94285	94.06566	56.25813	127.3898
DAGLB	247.2643	269.9807	64.29501	264.1009
DAK	225.6182	557.0641	100.461	391.9346
DALRD3	141.5317	213.1748	60.27657	129.6092
DANCR	819.2189	585.1617	0	431.4387
DAND5	2.497619	1.832448	0	1.775468
DAO	0	0	12.05531	0
DAOA	0	0	0	0
DAOA-AS1	0	0	0	0
DAP	1460.274	1708.452	200.9219	1470.975
DAP3	924.9515	1018.23	212.9772	751.4669
DAPK1	393.7912	654.7947	574.6366	881.9638
DAPK2	58.27777	42.1463	216.9957	63.02912
DAPK3	735.965	380.5383	313.4382	318.2527
DAPL1	1.665079	0.610816	0	0.887734
DAPP1	93.24443	105.0603	32.1475	130.053

DARC	0	0	16.07375	2.663202
DARS	258.0873	281.5862	321.475	253.0042
DARS2	75.7611	160.0338	60.27657	102.9771
DAXX	14.15317	4.275712	0	5.770271
DAZ1	0	0	0	0
DAZ2	0	0	0	0
DAZ3	0	0	0	0
DAZ4	0	0	0	0
DAZAP1	2124.641	658.4596	687.1529	586.7922
DAZAP2	1200.522	747.6387	2270.417	711.5188
DAZL	0	0	0	0
DBC1	4.162698	0.610816	44.20282	4.43867
DBF4	21.64603	35.42733	20.09219	27.51976
DBF4B	26.64127	82.46015	12.05531	61.69752
DBH	0	0	0	0.887734
DBI	1849.903	2299.722	289.3275	1173.584
DBIL5P	0	3.05408	0	0.887734
DBIL5P2	0	0	0	0
DBN1	921.6213	871.6344	598.7473	1110.111
DBNDD1	239.7714	251.6562	32.1475	164.6747
DBNDD2	24.14365	34.20569	8.036876	23.52495
DBNL	1064.818	1143.447	598.7473	761.2319
DBP	92.41189	59.85996	345.5857	88.7734
DBR1	114.8905	62.30323	32.1475	46.60604
DBT	52.44999	58.02752	16.07375	41.27963
DBX1	0	0	8.036876	0
DBX2	0.83254	0.610816	4.018438	0
DCAF10	78.25872	158.8121	208.9588	116.2932
DCAF11	323.0254	395.1979	675.0976	331.1248
DCAF12	195.6468	274.8672	811.7245	310.7069
DCAF12L1	0	0.610816	0	0
DCAF12L2	0	0.610816	4.018438	0
DCAF13	460.3944	387.2573	417.9176	190.8628
DCAF15	671.0269	134.3795	261.1985	166.4501
DCAF16	145.6944	69.63302	8.036876	103.421
DCAF17	29.97142	36.64896	24.11063	62.58525
DCAF4	73.26348	102.6171	72.33188	85.22247
DCAF4L1	11.65555	4.275712	16.07375	18.64241
DCAF4L2	1.665079	1.221632	8.036876	1.331601
DCAF5	173.1682	199.126	200.9219	383.945
DCAF6	243.1016	417.1873	610.8026	308.0437
DCAF7	149.8571	351.2192	168.7744	379.9502
DCAF8	714.319	662.1245	787.6139	967.1862
DCAF8L1	0	1.221632	8.036876	1.775468
DCAF8L2	1.665079	1.221632	32.1475	3.107069
DCAKD	51.61745	100.7846	52.23969	142.9252
DCBLD1	3.330158	37.25977	8.036876	35.50936

DCBLD2	90.74681	436.1226	60.27657	401.2558
DCC	0	0	44.20282	1.331601
DCD	0	0	0	0
DCDC1	0	0.610816	0	0
DCDC2	59.11031	222.337	4.018438	122.9512
DCDC2B	135.704	75.74118	0	68.79939
DCDC5	4.162698	1.221632	0	1.775468
DCHS1	10.82301	31.15161	176.8113	72.35032
DCHS2	0.83254	1.832448	12.05531	1.331601
DCK	34.96666	41.53548	36.16594	38.17256
DCLK1	1.665079	18.32448	72.33188	13.31601
DCLK2	0.83254	12.21632	16.07375	10.20894
DCLK3	0	0	8.036876	0.443867
DCLRE1A	52.44999	32.37325	76.35032	44.3867
DCLRE1B	39.9619	53.7518	16.07375	53.26404
DCLRE1C	132.3738	103.2279	16.07375	70.57486
DCN	1.665079	36.03814	2169.957	162.8992
DCP1A	118.2206	80.01689	36.16594	69.24325
DCP1B	64.93809	105.0603	52.23969	70.13099
DCP2	50.78491	50.08691	144.6638	49.71311
DCPS	109.8952	163.0879	200.9219	102.5333
DCST1	4.995237	3.664896	0	7.101872
DCST2	21.64603	24.43264	0	23.08108
DCT	0	0	4.018438	0
DCTD	407.9444	552.7884	4.018438	508.2277
DCTN1	927.4491	908.8941	2117.717	737.707
DCTN2	857.5158	634.6378	2587.874	529.5334
DCTN3	522.0023	357.9381	1731.947	305.3805
DCTN4	55.78015	119.7199	156.7191	112.2984
DCTN5	549.4761	441.0091	317.4566	389.2714
DCTN6	70.76586	188.7421	212.9772	108.3036
DCTPP1	629.3999	607.1511	132.6085	362.1955
DCUN1D1	19.14841	29.92998	108.4978	30.62682
DCUN1D2	224.7857	71.46547	12.05531	70.13099
DCUN1D3	29.97142	21.37856	76.35032	27.96362
DCUN1D4	137.369	169.8068	36.16594	211.2807
DCUN1D5	126.546	136.212	1406.453	106.972
DCX	3.330158	0	8.036876	0
DCXR	605.2563	347.5543	574.6366	162.8992
DDA1	602.7587	252.8778	36.16594	250.7849
DDAH1	268.9103	441.6199	28.12907	373.2922
DDAH2	0	0	0	0
DDB1	1615.127	1534.98	2893.275	1534.892
DDB2	157.35	56.80588	80.36876	37.7287
DDC	89.91427	10.99469	8.036876	17.75468
DDHD1	64.93809	24.43264	160.7375	36.3971
DDHD2	97.40713	83.68179	40.18438	126.5021

DDI1	0	1.832448	0	0
DDI2	3.330158	6.10816	52.23969	18.19855
DDIT3	441.246	183.8556	847.8904	204.1788
DDIT4	945.765	1087.863	313.4382	799.8484
DDIT4L	11.65555	39.09222	253.1616	53.26404
DDN	1.665079	1.221632	20.09219	2.663202
DDO	15.81825	0.610816	0	3.550936
DDOST	1362.867	2162.288	2636.095	2004.947
DDR1	3.330158	59.24915	0	67.91165
DDR2	0.83254	6.718975	168.7744	18.64241
DDRGK1	571.9547	963.2568	1522.988	578.8026
DDT	0	0	0	0
DDTL	40.79444	31.76243	0	13.75988
DDX1	482.873	711.6006	803.6876	413.2402
DDX10	131.5413	191.7962	60.27657	81.22766
DDX11	483.7055	380.5383	8.036876	406.1383
DDX11L1	0	0	0	0
DDX11L10	0	1.221632	0	0.443867
DDX11L2	6.660317	3.05408	0	2.219335
DDX11L9	0	0	0	0
DDX12P	84.91904	49.47609	8.036876	80.7838
DDX17	2648.308	2443.264	1133.2	2181.606
DDX18	182.3262	276.6996	96.44251	208.6175
DDX19A	188.1539	139.8769	76.35032	175.3275
DDX19B	88.2492	81.23852	20.09219	66.58005
DDX20	62.44047	87.9575	112.5163	67.46779
DDX21	139.8666	291.3592	237.0878	286.7381
DDX23	1045.67	636.4702	534.4523	657.8109
DDX24	601.0936	764.7416	526.4154	691.5448
DDX25	0.83254	0.610816	0	0
DDX26B	89.91427	89.78995	257.18	82.1154
DDX27	539.4856	585.1617	462.1204	608.9855
DDX28	148.192	91.62239	160.7375	75.45739
DDX31	117.3881	69.63302	24.11063	83.89087
DDX39A	1815.769	487.4311	1205.531	540.63
DDX39B	0	0	0	0.443867
DDX3X	267.2452	371.9869	2049.403	591.6747
DDX3Y	84.91904	3.664896	152.7006	15.97921
DDX4	1.665079	0	4.018438	0.443867
DDX41	738.4626	648.6865	1012.646	565.4866
DDX42	495.361	1220.41	550.526	1288.99
DDX43	29.97142	84.90342	4.018438	52.37631
DDX46	288.8912	278.5321	361.6594	258.3306
DDX47	203.9722	670.0651	506.3232	492.2485
DDX49	506.1841	229.6668	421.936	196.1892
DDX5	1565.174	4250.668	12850.96	4507.47
DDX50	232.2785	416.5765	2266.399	256.1113



DDX51	417.9349	170.4177	40.18438	127.8337
DDX52	91.57935	173.4717	249.1432	154.4657
DDX53	0	2.443264	36.16594	3.994803
DDX54	576.1174	161.8662	333.5304	124.7266
DDX55	175.6659	130.7146	60.27657	114.9616
DDX56	1168.886	805.6662	369.6963	637.393
DDX58	104.9	295.0241	20.09219	211.7246
DDX59	30.80396	92.23321	20.09219	61.25365
DDX6	315.5325	362.8247	317.4566	416.7911
DDX60	43.29206	161.2554	40.18438	137.1549
DDX60L	79.9238	231.4992	0	228.1476
DEAF1	166.5079	127.0497	381.7516	105.6404
1-Dec	0	0	0	0
DECR1	926.6165	409.8575	542.4891	240.1321
DECR2	604.4237	262.6509	32.1475	198.8524
DEDD	209.8	249.8237	550.526	236.1373
DEDD2	368.815	298.689	140.6453	250.341
DEF6	188.9865	85.51423	309.4197	166.4501
DEF8	232.2785	362.2139	52.23969	272.5343
DEFA1	0	0	0	0
DEFA10P	0	0	0	0
DEFA1B	0	0	0	0
DEFA3	0	0	0	0
DEFA4	0	0	0	0.443867
DEFA5	0	0	0	0
DEFA6	0	0	0	0
DEFB1	130.7087	1238.124	4.018438	1448.338
DEFB103A	0	0	0	0
DEFB103B	0	0	0	0
DEFB104A	0	0	0	0
DEFB104B	0	0	0	0
DEFB105A	0	0	0	0
DEFB105B	0	0	0	0
DEFB106A	0	0	0	0
DEFB106B	0	0	0	0
DEFB107A	0	0	0	0
DEFB107B	0	0	0	0
DEFB108B	0	0	0	0
DEFB109P:	0	0	0	0
DEFB109P:	0	0	0	0
DEFB110	0	0	0	0
DEFB112	0	0	0	0
DEFB113	0	0	4.018438	0
DEFB114	0	0	0	0
DEFB115	0	0	0	0
DEFB116	0.83254	0	0	0
DEFB118	0	0.610816	0	0

DEFB119	0	0	0	0
DEFB121	0	0	0	0
DEFB122	0	0	0	0
DEFB123	0	0	0	0
DEFB124	0	0	0	0
DEFB125	0	0	0	0
DEFB126	0	0	0	0
DEFB127	0	0	0	0
DEFB128	0	0	0	0
DEFB129	0	0	0	0
DEFB130	0	0	0	0
DEFB131	0	0	0	0
DEFB132	0	0	0	0.443867
DEFB133	0	0	0	0
DEFB134	0	0	0	0
DEFB135	0	0	0	0
DEFB136	0	0	0	0
DEFB4A	4.162698	0	0	1.331601
DEFB4B	0	0	0	0
DEFT1P	0	0	0	0
DEFT1P2	0	0	0	0
DEGS1	54.94761	282.8078	136.6269	165.1185
DEGS2	220.623	321.2892	28.12907	96.76301
DEK	109.8952	351.2192	116.5347	241.9075
DEM1	44.95714	73.90873	76.35032	50.60084
DENND1A	234.7762	81.84934	104.4794	60.80978
DENND1B	40.79444	47.03283	16.07375	36.3971
DENND1C	59.94285	50.69772	8.036876	69.24325
DENND2A	7.492856	7.329791	317.4566	30.62682
DENND2C	0.83254	0.610816	16.07375	3.107069
DENND2D	384.6333	310.9053	28.12907	240.1321
DENND3	466.2222	201.5693	16.07375	256.999
DENND4A	44.95714	91.62239	68.31345	134.9356
DENND4B	398.7865	318.8459	397.8254	412.3525
DENND4C	33.30158	145.985	84.3872	144.7006
DENND5A	65.77063	132.5471	1354.214	260.5499
DENND5B	24.97619	51.30854	16.07375	26.18815
DENR	203.9722	148.4283	743.411	154.4657
DEPDC1	39.12936	50.08691	0	52.37631
DEPDC1B	26.64127	546.0695	12.05531	262.3254
DEPDC4	0	0.610816	0	0
DEPDC5	113.2254	84.90342	317.4566	103.421
DEPDC7	0.83254	3.05408	16.07375	2.219335
DEPTOR	92.41189	222.337	8.036876	148.2516
DERA	169.0055	574.7778	52.23969	333.788
DERL1	571.9547	402.5277	554.5445	431.8826
DERL2	148.192	254.0994	357.641	204.1788

DERL3	139.8666	42.1463	0	22.63722
DES	17.48333	5.497344	1101.052	15.97921
DET1	28.30635	32.37325	100.461	32.84616
DEXI	155.6849	109.9469	28.12907	95.43141
DFFA	114.8905	196.0719	44.20282	125.6144
DFFB	25.80873	28.09753	4.018438	33.29003
DFNA5	0.83254	208.8991	4.018438	118.5125
DFNB31	55.78015	8.551423	16.07375	27.51976
DFNB59	4.162698	20.15693	0	31.07069
DGAT1	2769.859	843.5368	245.1247	703.0854
DGAT2	143.1968	40.92467	60.27657	64.80458
DGAT2L6	0	0.610816	0	0
DGCR10	7.492856	1.832448	0	0.887734
DGCR11	6.660317	20.15693	0	8.433473
DGCR14	195.6468	206.4558	225.0325	145.5884
DGCR2	796.7404	1184.372	72.33188	798.0729
DGCR5	3.330158	25.65427	0	15.09148
DGCR6	48.2873	23.82182	237.0878	23.96882
DGCR6L	153.1873	286.4727	168.7744	141.5936
DGCR8	658.5388	328.0082	88.40564	308.4876
DGCR9	9.990475	7.329791	0	20.86175
DGKA	463.7245	200.3476	257.18	213.0562
DGKB	0	0.610816	16.07375	2.219335
DGKD	299.7142	149.0391	88.40564	204.1788
DGKE	19.98095	99.563	24.11063	94.98754
DGKG	24.97619	23.82182	24.11063	15.97921
DGKH	12.48809	34.81651	8.036876	31.07069
DGKI	0	0	8.036876	1.775468
DGKK	0.83254	0	4.018438	0
DGKQ	377.973	263.2617	16.07375	371.9606
DGKZ	736.7975	130.1038	389.7885	131.3846
DGUOK	690.1753	448.9497	200.9219	301.3857
DHCR24	3405.919	2687.59	56.25813	2753.751
DHCR7	823.3816	908.2833	24.11063	454.076
DHDDS	422.0976	236.9966	518.3785	308.9314
DHDH	44.95714	15.2704	0	19.97402
DHFR	29.97142	35.42733	4.018438	35.06549
DHFRL1	46.62222	50.08691	8.036876	35.95323
DHH	0	0.610816	28.12907	0.887734
DHODH	101.5698	91.01158	88.40564	69.24325
DHPS	599.4285	291.97	570.6182	228.1476
DHRS1	576.9499	285.2511	361.6594	225.4844
DHRS11	254.7571	51.30854	148.6822	53.26404
DHRS12	144.0293	196.6827	0	123.395
DHRS13	344.6714	223.5586	28.12907	142.4813
DHRS2	19.14841	2.443264	8.036876	7.545739
DHRS3	1740.84	1305.925	1133.2	735.0438

DHRS4	81.58888	40.31385	0	19.08628
DHRS4L1	1.665079	0.610816	0	0.443867
DHRS4L2	116.5555	56.19507	36.16594	22.19335
DHRS7	166.5079	732.3683	32.1475	443.867
DHRS7B	333.0158	156.9797	337.5488	119.4002
DHRS7C	0	0	261.1985	0.887734
DHRS9	47.45476	108.1144	16.07375	142.0374
DHRSX	0	0	0	0
DHTKD1	60.77539	208.2882	4.018438	201.5156
DHX15	414.6047	836.8179	1366.269	789.6394
DHX16	1.665079	2.443264	0	0.887734
DHX29	64.10555	158.2013	108.4978	98.98235
DHX30	1053.995	343.2786	723.3188	344.8847
DHX32	219.7904	165.5311	160.7375	131.8285
DHX33	64.93809	66.57894	56.25813	67.46779
DHX34	345.5039	338.392	196.9035	296.5032
DHX35	111.5603	120.9416	52.23969	94.98754
DHX36	122.3833	193.6287	249.1432	137.5988
DHX37	398.7865	125.8281	32.1475	149.5832
DHX38	891.6499	453.2254	807.706	549.9512
DHX40	74.09602	248.6021	526.4154	175.3275
DHX57	94.90951	109.9469	108.4978	104.7526
DHX58	117.3881	266.3158	40.18438	193.0822
DHX8	133.2063	161.2554	200.9219	180.21
DHX9	671.8594	783.0661	305.4013	612.5365
DIABLO	449.5714	274.2564	229.051	241.4637
DIAPH1	1258.8	533.2423	606.7841	620.0822
DIAPH2	29.13889	74.51955	64.29501	19.97402
DIAPH3	32.46904	64.13568	8.036876	37.7287
DICER1	135.704	152.0932	281.2907	256.1113
DICER1-AS	72.43094	18.32448	0	27.07589
DIDO1	359.6571	338.392	36.16594	468.7236
DIEXF	99.90475	194.2395	84.3872	171.7765
DIMT1	60.77539	66.57894	116.5347	48.82537
DIO1	0	1.221632	4.018438	0.887734
DIO2	2.497619	4.275712	16.07375	3.107069
DIO3	6.660317	30.5408	0	27.51976
DIO3OS	0.83254	4.275712	0	7.545739
DIP2A	192.3166	91.01158	108.4978	113.63
DIP2B	186.4889	155.7581	80.36876	126.0582
DIP2C	46.62222	165.5311	225.0325	213.9439
DIRAS1	0.83254	0	36.16594	0
DIRAS2	0	1.832448	4.018438	3.994803
DIRAS3	6.660317	10.99469	0	17.75468
DIRC1	0	0	0	0
DIRC2	109.8952	64.74649	245.1247	90.54887
DIRC3	0	0.610816	0	0.887734

DIS3	47.45476	104.4495	88.40564	96.31914
DIS3L	17.48333	59.24915	120.5531	97.20688
DIS3L2	171.5032	141.0985	136.6269	136.711
DISC1	0	0	4.018438	0.887734
DISC2	0	0	0	0
DISP1	13.32063	56.19507	56.25813	87.88567
DISP2	7.492856	28.09753	20.09219	30.62682
DIXDC1	0.83254	8.551423	8.036876	12.87214
DKC1	603.5912	533.2423	120.5531	364.8587
DKFZP434/	0	0	0	0
DKFZP434†	0	0	4.018438	0
DKFZP434‡	12.48809	15.88121	0	28.85136
DKFZP434‡	2.497619	5.497344	0	3.994803
DKFZP434‡	0	0	0	0
DKFZP564‡	11.65555	1.832448	0	7.989606
DKFZP586‡	78.25872	30.5408	32.1475	29.29522
DKFZP686‡	28.30635	28.70835	0	28.85136
DKFZp434J	0	0	0	0
DKFZp434‡	0	0	0	0
DKFZp451‡	0	0	0	0
DKFZp566‡	0	0	4.018438	0
DKFZp686‡	0	0	4.018438	0
DKFZp686†	0	0	4.018438	0
DKFZp686‡	0	0	0	0
DKFZp779‡	0	0	0	3.107069
DKK1	26.64127	1782.972	8.036876	870.8671
DKK2	0	14.65958	0	34.17776
DKK3	4.995237	9.162239	24.11063	31.51456
DKK4	5.827777	0	12.05531	0.443867
DKKL1	1.665079	0	12.05531	0
DLAT	74.92856	132.5471	281.2907	142.4813
DLC1	2.497619	6.718975	68.31345	11.98441
DLD	120.7182	453.2254	494.2679	291.6206
DLEC1	16.65079	10.38387	0	15.09148
DLEU1	30.80396	37.87059	0	19.97402
DLEU2	5.827777	7.940607	8.036876	6.658005
DLEU2L	0	0	0	0.887734
DLEU7	3.330158	0.610816	0	0.443867
DLG1	245.5992	167.9744	136.6269	197.9647
DLG2	2.497619	4.886528	56.25813	7.545739
DLG3	692.6729	1247.286	237.0878	781.206
DLG4	17.48333	20.15693	293.346	37.28483
DLG5	413.7722	510.0313	84.3872	715.0698
DLGAP1	0	1.832448	44.20282	2.219335
DLGAP2	0.83254	1.221632	4.018438	0.887734
DLGAP3	3.330158	0.610816	152.7006	2.663202
DLGAP4	676.0221	378.7059	2700.39	523.7631

DLGAP5	79.09126	169.8068	0	82.1154
DLK1	0	1.221632	64.29501	8.433473
DLK2	4.995237	5.497344	8.036876	8.87734
DLL1	17.48333	6.10816	36.16594	19.53015
DLL3	0	0	8.036876	0.443867
DLL4	5.827777	18.93529	116.5347	41.27963
DLST	338.8436	577.2211	136.6269	456.7392
DLX1	0	0.610816	16.07375	0
DLX2	0	0	12.05531	2.663202
DLX3	0	2.443264	28.12907	1.775468
DLX4	0	4.886528	0	10.20894
DLX5	0	1.221632	20.09219	3.994803
DLX6	0	0	44.20282	0.443867
DLX6-AS1	0	0	8.036876	0.443867
DMAP1	667.6967	330.4514	526.4154	320.0281
DMBT1	3419.24	109.3361	20.09219	1162.044
DMBX1	18.31587	0	4.018438	0.443867
DMC1	6.660317	14.65958	0	3.550936
DMD	4.995237	15.88121	92.42408	27.96362
DMGDH	0	0	4.018438	0.443867
DMKN	335.5134	819.1042	36.16594	274.3098
DMP1	0.83254	0	20.09219	0
DMPK	421.265	244.3264	273.2538	300.9418
DMRT1	0	0	4.018438	0
DMRT2	0	0.610816	40.18438	0.443867
DMRT3	0	0	16.07375	0
DMRTA1	18.31587	34.81651	4.018438	20.41788
DMRTA2	0	0	28.12907	2.219335
DMRTB1	0	0.610816	0	0.887734
DMRTC1	0	0	0	0
DMRTC1B	0	0	0	0
DMRTC2	0	0	4.018438	0
DMTF1	114.8905	208.8991	116.5347	312.0385
DMWD	135.704	182.634	221.0141	136.711
DMXL1	21.64603	70.85465	192.885	72.79419
DMXL2	30.80396	82.46015	104.4794	303.1612
DNA2	4.995237	51.30854	4.018438	69.68712
DNAAF1	14.98571	0	0	2.219335
DNAAF2	39.12936	42.75712	72.33188	53.26404
DNAH1	318.8627	69.63302	112.5163	126.946
DNAH10	6.660317	3.664896	28.12907	6.214138
DNAH11	38.29682	59.85996	8.036876	177.1029
DNAH12	14.98571	18.93529	16.07375	3.107069
DNAH14	0	42.75712	0	40.3919
DNAH17	18.31587	21.37856	60.27657	31.07069
DNAH2	37.46428	53.7518	104.4794	120.288
DNAH3	12.48809	26.26509	48.22126	29.73909

DNAH5	62.44047	64.13568	28.12907	103.421
DNAH6	87.41666	9.162239	40.18438	16.86695
DNAH7	39.12936	39.09222	76.35032	51.04471
DNAH8	0	3.664896	36.16594	4.43867
DNAH9	8.325396	0	16.07375	0.887734
DNAI1	113.2254	0.610816	12.05531	2.663202
DNAI2	0	0	20.09219	0.887734
DNAJA1	981.5642	1175.821	2342.749	902.8255
DNAJA1P5	0.83254	1.221632	8.036876	0.887734
DNAJA2	275.5706	310.9053	1868.574	282.2994
DNAJA3	386.2984	295.0241	84.3872	335.1196
DNAJA4	99.07221	82.46015	44.20282	113.1861
DNAJB1	897.4777	431.8469	221.0141	358.6446
DNAJB11	1201.355	727.4818	530.4338	665.3567
DNAJB12	516.1745	368.322	164.756	461.1778
DNAJB13	349.6666	24.43264	20.09219	83.89087
DNAJB14	19.98095	39.70304	144.6638	31.07069
DNAJB2	1187.201	1008.457	80.36876	881.5199
DNAJB3	0	0.610816	0	0.887734
DNAJB4	5.827777	16.49203	136.6269	33.29003
DNAJB5	20.81349	19.54611	265.2169	53.26404
DNAJB6	279.7333	194.2395	128.59	138.9304
DNAJB7	0	0	4.018438	0.443867
DNAJB8	0	0	0	0
DNAJB8-AS	0	0	0	0
DNAJB9	20.81349	74.51955	104.4794	85.22247
DNAJC1	281.3984	237.6074	152.7006	154.9096
DNAJC10	555.3039	886.2939	233.0694	844.2351
DNAJC11	73.26348	105.0603	148.6822	133.1601
DNAJC12	2.497619	32.98406	48.22126	63.91685
DNAJC13	283.0635	191.7962	518.3785	253.0042
DNAJC14	199.8095	145.985	835.8351	209.0614
DNAJC15	258.9198	412.9116	357.641	192.1944
DNAJC16	104.9	83.07097	20.09219	100.3139
DNAJC17	107.3976	150.2607	176.8113	143.8129
DNAJC18	19.14841	9.773055	116.5347	15.53535
DNAJC19	238.1063	117.2767	184.8482	75.90126
DNAJC2	114.8905	443.4524	377.7332	520.2121
DNAJC21	101.5698	268.1482	180.8297	145.1445
DNAJC22	68.26825	113.6118	0	73.23806
DNAJC24	25.80873	14.04877	28.12907	19.97402
DNAJC25	44.95714	51.91936	80.36876	43.0551
DNAJC25-C	0	0	0	0
DNAJC27	20.81349	19.54611	20.09219	26.18815
DNAJC27-F	4.162698	4.275712	0	3.994803
DNAJC28	9.157935	6.10816	0	6.658005
DNAJC3	282.2309	363.4355	446.0466	446.9741

DNAJC30	138.2016	218.6721	84.3872	185.9803
DNAJC4	442.0785	468.4958	44.20282	393.71
DNAJC5	1180.541	840.4828	221.0141	1047.082
DNAJC5B	0	0	12.05531	0
DNAJC5G	0	0.610816	0	0
DNAJC6	2.497619	1.221632	16.07375	3.994803
DNAJC7	375.4753	629.7512	1884.647	407.4699
DNAJC8	447.9063	542.4046	450.0651	344.4408
DNAJC9	193.9817	274.2564	56.25813	189.0873
DNAL1	66.60317	93.45484	24.11063	76.34513
DNAL4	213.9627	357.9381	216.9957	197.5208
DNALI1	571.1222	226.0019	24.11063	229.9231
DNASE1	38.29682	43.36793	8.036876	50.15697
DNASE1L1	75.7611	393.9763	80.36876	177.9907
DNASE1L2	53.28253	29.31917	0	25.74429
DNASE1L3	0	0	12.05531	1.331601
DNASE2	382.9682	309.6837	397.8254	231.6986
DNASE2B	0	1.221632	0	0
DND1	97.40713	43.36793	32.1475	64.36072
DNER	2.497619	0.610816	0	0
DNHD1	271.4079	51.30854	20.09219	100.3139
DNLZ	228.1158	58.02752	64.29501	29.29522
DNM1	74.92856	99.563	827.7982	176.2152
DNM1L	170.6706	364.0463	140.6453	295.1716
DNM1P35	2.497619	1.832448	32.1475	4.43867
DNM1P41	0	0	0	0.443867
DNM1P46	0.83254	0	4.018438	0.887734
DNM2	3037.937	1225.908	590.7104	1552.647
DNM3	14.98571	7.329791	40.18438	14.64761
DNM3OS	20.81349	21.98937	196.9035	18.64241
DNMBP	371.3127	180.8015	28.12907	160.6799
DNMBP-AS	7.492856	4.886528	0	5.770271
DNMT1	507.0166	215.0072	249.1432	260.1061
DNMT3A	124.0484	205.845	1137.218	272.5343
DNMT3B	9.157935	58.02752	8.036876	75.45739
DNMT3L	0	0	0	0
DNPEP	1073.976	479.4905	944.3329	441.2038
DNTT	0	0	0	0
DNTTIP1	517.0071	314.5702	385.7701	251.6726
DNTTIP2	343.8388	408.6359	393.8069	259.2183
DOC2A	18.31587	10.99469	52.23969	37.28483
DOC2B	2.497619	0	16.07375	0.887734
DOC2GP	7.492856	3.05408	8.036876	3.107069
DOCK1	146.527	153.9256	152.7006	205.5104
DOCK10	11.65555	12.82714	136.6269	25.30042
DOCK11	29.97142	14.65958	458.1019	38.61643
DOCK2	39.9619	20.15693	582.6735	79.00833



DOCK3	8.325396	6.718975	36.16594	11.98441
DOCK4	4.995237	18.32448	52.23969	24.85655
DOCK5	19.98095	171.6393	52.23969	247.6778
DOCK6	767.6015	275.478	474.1757	375.0676
DOCK7	85.75158	143.5417	446.0466	133.1601
DOCK8	37.46428	35.42733	225.0325	151.3587
DOCK9	66.60317	85.51423	237.0878	153.1341
DOHH	457.0642	170.4177	297.3644	111.8545
DOK1	276.4031	51.30854	466.1388	102.5333
DOK2	14.15317	2.443264	337.5488	4.43867
DOK3	51.61745	18.93529	112.5163	54.59564
DOK4	1670.907	758.6334	156.7191	613.4242
DOK5	0	1.221632	12.05531	10.20894
DOK6	0	1.832448	8.036876	1.331601
DOK7	209.8	46.42201	28.12907	59.47818
DOLK	121.5508	108.1144	196.9035	93.65594
DOLPP1	222.2881	116.6658	88.40564	126.946
DOM3Z	1.665079	1.221632	0	3.550936
DONSON	124.0484	92.23321	16.07375	69.24325
DOPEY1	21.64603	34.81651	104.4794	54.15178
DOPEY2	84.91904	67.80057	96.44251	87.4418
DOT1L	618.5769	160.0338	108.4978	199.7402
DPAGT1	222.2881	582.1076	257.18	482.4834
DPCD	594.4333	192.407	192.885	108.7474
DPCR1	27.47381	0	0	0
DPEP1	2.497619	2.443264	208.9588	13.75988
DPEP2	21.64603	2.443264	148.6822	9.765074
DPEP3	7.492856	1.221632	80.36876	5.326404
DPF1	4.162698	5.497344	32.1475	2.663202
DPF2	134.8714	213.1748	257.18	236.1373
DPF3	1.665079	0	16.07375	0.887734
DPH1	42.45952	67.80057	80.36876	55.48338
DPH2	256.4222	242.4939	16.07375	224.5967
DPH3	97.40713	108.1144	446.0466	73.68193
DPH3P1	3.330158	1.221632	40.18438	3.994803
DPH5	100.7373	190.5746	72.33188	75.01353
DPM1	121.5508	331.0622	574.6366	170.4449
DPM2	797.5729	350.6084	160.7375	282.7433
DPM3	498.6912	403.7493	602.7657	260.9938
DPP10	0	6.10816	4.018438	1.331601
DPP3	641.888	595.5456	462.1204	464.2849
DPP4	54.11507	262.04	900.1301	255.2235
DPP6	1.665079	3.05408	20.09219	1.775468
DPP7	756.7785	552.1776	216.9957	406.1383
DPP8	19.14841	43.97875	305.4013	94.54367
DPP9	551.1412	275.478	84.3872	336.4512
DPPA2	0	0.610816	0	0

DPPA3	0.83254	0	0	0
DPPA4	0	0	0	0
DPPA5	0	0	16.07375	0
DPRX	0	0	0	0
DPRXP4	0	0	0	0
DPT	0.83254	28.70835	4798.015	173.9959
DPY19L1	109.0627	228.4452	88.40564	139.3742
DPY19L1P1	83.25396	29.92998	4.018438	29.29522
DPY19L2	0.83254	19.54611	0	18.19855
DPY19L2P1	0	0.610816	4.018438	0
DPY19L2P2	4.995237	45.20038	4.018438	35.50936
DPY19L2P3	0	0.610816	0	0.887734
DPY19L2P4	0	0.610816	0	0.443867
DPY19L3	84.91904	121.5524	12.05531	104.3087
DPY19L4	75.7611	58.63833	24.11063	62.14138
DPY30	177.3309	213.1748	349.6041	178.4345
DPYD	29.97142	64.74649	8.036876	84.7786
DPYS	1.665079	0	8.036876	0
DPYSL2	218.9579	504.534	799.6692	353.762
DPYSL3	58.27777	62.91404	646.9685	85.22247
DPYSL4	0	1.832448	0	3.107069
DPYSL5	0	0	0	0.443867
DQX1	204.8047	4.886528	44.20282	4.882537
DR1	70.76586	178.3583	72.33188	118.9564
DRAM1	77.42618	63.52486	24.11063	66.13619
DRAM2	249.7619	293.1917	285.3091	249.4533
DRAP1	1140.579	620.589	4163.102	522.4315
DRD1	1.665079	0	8.036876	0.443867
DRD2	0.83254	1.221632	8.036876	4.882537
DRD3	0	0.610816	0	0
DRD4	80.75634	6.718975	32.1475	4.882537
DRD5	0	0	0	0
DRG1	255.5897	370.7653	655.0054	145.5884
DRG2	186.4889	195.4611	297.3644	186.868
DRGX	0	0	0	0
DROSHA	492.0309	252.8778	683.1345	312.4824
DRP2	1.665079	8.551423	40.18438	8.87734
DSC1	1.665079	0	0	0.443867
DSC2	143.1968	144.7634	8.036876	117.1809
DSC3	19.14841	0.610816	0	0.887734
DSCAM	4.995237	0.610816	32.1475	1.775468
DSCAM-AS	0	0	0	0
DSCAML1	0	25.04345	108.4978	7.989606
DSCC1	78.25872	73.29791	12.05531	39.94803
DSCR10	0	0	0	0
DSCR3	132.3738	135.6011	136.6269	113.1861
DSCR4	0	0	0	0

DSCR6	3.330158	3.05408	0	0.887734
DSCR8	0	0	0	0
DSCR9	6.660317	0.610816	0	3.550936
DSE	5.827777	28.09753	144.6638	70.57486
DSEL	29.13889	83.07097	265.2169	47.49377
DSG1	1.665079	0	8.036876	0
DSG2	602.7587	517.9719	32.1475	507.34
DSG3	42.45952	1.221632	4.018438	1.331601
DSG4	0	0.610816	8.036876	0.887734
DSN1	203.1397	219.2829	12.05531	152.6903
DSP	333.8484	466.0526	64.29501	521.0999
DSPP	0	0	0	0
DST	427.0928	685.9463	626.8763	931.233
DSTN	1222.168	2679.039	715.282	1244.603
DSTNP2	48.2873	72.6871	48.22126	58.59045
DSTYK	43.29206	58.63833	36.16594	47.93764
DTD1	375.4753	228.4452	144.6638	143.8129
DTHD1	13.32063	1.221632	0	0
DTL	66.60317	64.74649	24.11063	70.13099
DTNA	2.497619	38.48141	68.31345	90.99274
DTNB	37.46428	167.9744	216.9957	81.67153
DTNBP1	140.6992	54.36262	1952.961	58.14658
DTWD1	17.48333	53.14099	8.036876	31.95843
DTWD2	17.48333	7.329791	16.07375	9.321207
DTX1	183.1587	4.886528	20.09219	7.545739
DTX2	599.4285	339.6137	188.8666	432.7703
DTX2P1-UF	14.98571	18.93529	4.018438	19.97402
DTX3	134.8714	113.6118	498.2863	179.3223
DTX3L	820.884	272.4239	12.05531	333.3441
DTX4	772.5967	511.8638	233.0694	583.6851
DTYMK	585.2753	737.8657	96.44251	373.736
DUOX1	87.41666	18.32448	136.6269	115.4054
DUOX2	11617.26	18.32448	128.59	170.0011
DUOXA1	215.6278	1.832448	184.8482	9.765074
DUOXA2	5036.032	2.443264	12.05531	58.14658
DUPD1	0	0	4.018438	0.443867
DUS1L	1711.701	1114.128	285.3091	872.6426
DUS2L	220.623	96.50892	120.5531	81.67153
DUS3L	368.815	252.267	116.5347	218.3826
DUS4L	18.31587	76.96281	12.05531	42.16737
DUSP1	99.07221	48.25446	976.4804	127.8337
DUSP10	31.6365	46.42201	56.25813	45.7183
DUSP11	59.94285	113.6118	68.31345	72.35032
DUSP12	104.0674	145.985	225.0325	106.5281
DUSP13	0.83254	1.832448	40.18438	2.663202
DUSP14	49.11984	80.01689	24.11063	90.105
DUSP15	1.665079	0.610816	24.11063	0.887734

DUSP16	56.61269	317.6243	32.1475	391.9346
DUSP18	30.80396	21.98937	4.018438	13.31601
DUSP19	8.325396	5.497344	28.12907	6.658005
DUSP2	37.46428	12.82714	88.40564	20.41788
DUSP21	0	0	0	0.443867
DUSP22	227.2833	103.8387	144.6638	84.33473
DUSP23	860.8459	360.3814	144.6638	340.0021
DUSP26	0	0	48.22126	0.887734
DUSP27	0	0.610816	24.11063	0
DUSP28	173.1682	75.74118	44.20282	55.03951
DUSP3	262.25	438.5659	156.7191	398.5926
DUSP4	86.58412	953.4837	72.33188	684.8868
DUSP5	46.62222	167.3636	28.12907	168.2256
DUSP5P	0	7.329791	0	15.53535
DUSP6	202.3071	218.0613	843.872	346.2163
DUSP7	53.28253	117.8875	200.9219	99.42621
DUSP8	541.9833	69.0222	24.11063	79.89606
DUSP9	1.665079	5.497344	32.1475	12.42828
DUT	216.4603	466.0526	48.22126	369.7412
DUX2	0.83254	0	0	0
DUX4	0	0	0	0
DUX4L2	0	0	0	0
DUX4L3	0	0	0	0
DUX4L4	0	0	0	0
DUX4L5	0	0	0	0
DUX4L6	0	0	0	0
DUX4L7	0	0	0	0
DUXA	0	0	12.05531	0
DVL1	1283.776	654.1839	144.6638	585.0167
DVL2	84.0865	116.055	212.9772	137.1549
DVL3	998.215	362.8247	225.0325	467.8358
DYDC1	0	0	0	0
DYDC2	0	0	0	0
DYM	42.45952	95.28729	200.9219	86.99794
DYNC1H1	1660.916	1886.2	2776.741	2117.69
DYNC1I1	19.14841	5.497344	24.11063	11.09668
DYNC1I2	158.1825	378.7059	421.936	269.4273
DYNC1LI1	129.0436	106.282	188.8666	90.105
DYNC1LI2	707.6586	412.9116	578.6551	704.417
DYNC2H1	118.2206	26.8759	68.31345	27.96362
DYNC2LI1	71.5984	131.3254	88.40564	71.46259
DYNLL1	1366.197	1238.124	2684.317	806.9502
DYNLL2	78.25872	182.0232	606.7841	246.3462
DYNLRB1	1128.091	978.5272	1084.978	858.8827
DYNLRB2	1.665079	4.886528	16.07375	0.887734
DYNLT1	1166.388	826.434	1101.052	529.5334
DYNLT3	51.61745	120.3307	136.6269	73.23806

DYRK1A	149.8571	106.282	522.3969	160.6799
DYRK1B	223.1206	137.4336	433.9913	103.8649
DYRK2	189.819	91.62239	606.7841	98.53848
DYRK3	9.990475	22.60019	36.16594	17.75468
DYRK4	74.09602	160.0338	4.018438	75.90126
DYSF	41.62698	48.86528	827.7982	227.7038
DYTN	0	0	0	0
DYX1C1	0	4.886528	0	4.882537
DYX1C1-CC	0	0	0	0
DZANK1	26.64127	31.15161	4.018438	52.82018
DZANK1-A'	0	0	0	0
DZIP1	6.660317	16.49203	20.09219	20.86175
DZIP1L	83.25396	4.275712	0	6.214138
DZIP3	62.44047	87.34668	36.16594	121.1757
E2F1	633.5626	287.6943	80.36876	307.156
E2F2	121.5508	55.58425	52.23969	70.13099
E2F3	47.45476	81.84934	96.44251	134.4917
E2F4	758.4436	555.2317	542.4891	518.4367
E2F5	24.14365	31.76243	68.31345	31.51456
E2F6	30.80396	32.37325	12.05531	38.17256
E2F7	39.9619	17.71366	0	19.08628
E2F8	26.64127	36.64896	8.036876	54.59564
E4F1	547.811	285.8619	345.5857	229.0354
EA1F1	67.43571	66.57894	4.018438	67.02392
EA1F2	26.64127	21.98937	0	6.214138
EAPP	99.07221	144.1526	176.8113	115.8493
EARS2	201.4746	150.8715	80.36876	126.946
EBAG9	97.40713	156.9797	64.29501	108.7474
EBF1	11.65555	13.43795	417.9176	30.18296
EBF2	0.83254	0.610816	40.18438	2.219335
EBF3	2.497619	4.275712	208.9588	11.98441
EBF4	87.41666	26.26509	36.16594	53.70791
EBI3	0	1.221632	0	5.326404
EBLN1	0	0	0	0
EBLN2	2.497619	1.832448	0	3.107069
EBNA1BP2	844.1951	612.0376	309.4197	387.9398
EBP	2047.215	635.2486	32.1475	348.8795
EBPL	179.8285	158.2013	84.3872	83.89087
ECD	109.8952	200.9584	216.9957	133.1601
ECE1	1073.144	1006.625	196.9035	827.812
ECE2	176.4984	97.11974	225.0325	91.88047
ECEL1	0	0.610816	4.018438	1.775468
ECEL1P2	0	0.610816	0	5.770271
ECH1	1431.136	1947.892	1547.099	1042.644
ECHDC1	183.1587	222.337	36.16594	209.0614
ECHDC2	507.8491	260.2076	160.7375	272.9782
ECHDC3	0	0.610816	24.11063	0.887734

ECHS1	2850.616	1561.246	803.6876	1199.773
ECI1	631.065	534.464	124.5716	244.5707
ECI2	193.9817	205.845	212.9772	112.2984
ECM1	64.10555	106.282	598.7473	183.3171
ECM2	1.665079	6.10816	84.3872	9.765074
ECRP	0	0	0	0
ECSCR	7.492856	4.886528	72.33188	6.214138
ECSIT	507.0166	138.6552	212.9772	97.20688
ECT2	119.0532	128.8822	4.018438	126.946
ECT2L	0.83254	0	0	1.331601
EDA	3.330158	0.610816	44.20282	13.31601
EDA2R	1.665079	0	0	1.331601
EDAR	7.492856	3.664896	4.018438	2.219335
EDARADD	139.8666	46.42201	960.4067	77.23286
EDC3	98.23967	246.1588	120.5531	268.0957
EDC4	1054.828	550.3452	715.282	598.3327
EDDM3A	0	0	0	0
EDDM3B	0	0	12.05531	0
EDEM1	215.6278	129.493	446.0466	189.0873
EDEM2	267.2452	347.5543	799.6692	529.5334
EDEM3	127.3786	65.35731	64.29501	148.6955
EDF1	3574.092	3524.408	4038.53	1864.685
EDIL3	1.665079	3.05408	20.09219	5.326404
EDN1	119.0532	155.7581	44.20282	150.4709
EDN2	2.497619	2.443264	4.018438	7.545739
EDN3	4.162698	0	12.05531	0
EDNRA	4.995237	4.275712	28.12907	19.97402
EDNRB	0	5.497344	56.25813	4.882537
EEA1	14.15317	15.2704	84.3872	23.08108
EED	165.6754	174.6934	679.116	149.5832
EEF1A1	1462.772	1894.751	2021.274	885.0708
EEF1A2	2.497619	273.6455	542.4891	664.0251
EEF1B2	656.8737	1382.277	920.2223	516.2173
EEF1D	8912.336	4851.1	3692.945	2692.497
EEF1DP3	0	0	0	0
EEF1E1	19.14841	43.97875	16.07375	26.63202
EEF1E1-MI	0	0	0	0
EEF1G	3807.203	3775.453	4472.522	1711.995
EEF2	10783.89	4906.074	35591.31	5058.752
EEF2K	244.7666	99.563	112.5163	127.8337
EEFSEC	546.146	123.9956	100.461	64.80458
EEPD1	94.07697	297.4674	325.4935	248.1217
EFCAB1	0	0.610816	0	0
EFCAB10	0	0	0	0
EFCAB11	31.6365	51.91936	0	20.41788
EFCAB2	38.29682	53.14099	24.11063	51.04471
EFCAB3	0	0	0	0

EFCAB4A	3591.576	1131.842	470.1573	926.7943
EFCAB4B	0	14.65958	0	41.7235
EFCAB5	2.497619	2.443264	20.09219	0.443867
EFCAB6	9.157935	20.15693	0	14.64761
EFCAB7	20.81349	26.26509	36.16594	20.86175
EFCAB9	0	0	0	0.443867
EFEMP1	3.330158	37.25977	964.4251	207.7298
EFEMP2	280.5658	256.5427	2093.606	345.7724
EFHA1	78.25872	160.6446	200.9219	93.65594
EFHA2	0	1.221632	12.05531	2.663202
EFHB	6.660317	5.497344	0	3.107069
EFHC1	241.4365	309.0729	36.16594	221.9335
EFHC2	57.44523	23.21101	0	18.19855
EFHD1	9.990475	3.664896	269.2353	22.19335
EFHD2	3049.592	1261.335	1225.624	1138.963
EFNA1	1174.713	645.6325	200.9219	557.9408
EFNA2	233.1111	21.37856	12.05531	13.75988
EFNA3	237.2738	17.71366	32.1475	26.63202
EFNA4	168.173	109.3361	12.05531	86.55407
EFNA5	290.5563	385.4249	100.461	351.9865
EFNB1	1580.16	1976.6	470.1573	1074.602
EFNB2	91.57935	260.2076	164.756	247.6778
EFNB3	1.665079	0	60.27657	3.107069
EFR3A	128.2111	109.9469	68.31345	148.2516
EFR3B	1.665079	0	16.07375	1.775468
EFS	3.330158	3.05408	128.59	3.550936
EFTUD1	37.46428	166.7528	188.8666	115.4054
EFTUD2	394.6238	725.6494	743.411	606.3223
EGF	0.83254	1.221632	4.018438	28.40749
EGFEM1P	0	0	4.018438	0
EGFL6	1.665079	0.610816	0	0
EGFL7	25.80873	67.18975	988.5358	93.21207
EGFL8	0	0	0	0
EGFLAM	4.162698	1.221632	0	9.765074
EGFLAM-A	0	0	0	0
EGFR	16.65079	144.7634	52.23969	135.3794
EGLN1	99.90475	240.6615	438.0097	219.2703
EGLN2	0	1.832448	36.16594	4.43867
EGLN3	1140.579	376.2626	12.05531	363.0832
EGOT	2.497619	10.99469	0	5.326404
EGR1	169.0055	54.97344	1205.531	112.7422
EGR2	12.48809	4.275712	128.59	11.09668
EGR3	6.660317	1.832448	88.40564	9.321207
EGR4	0	7.940607	28.12907	0.887734
EHBP1	63.27301	152.0932	48.22126	156.2412
EHBP1L1	3594.906	1183.151	1109.089	1005.803
EHD1	859.1808	1336.465	1040.775	1390.192

EHD2	254.7571	973.6406	245.1247	731.4928
EHD3	7.492856	15.2704	124.5716	21.30562
EHD4	178.1635	253.4886	626.8763	326.6861
EHF	686.8452	739.6981	56.25813	748.8037
EHHADH	106.5651	59.24915	20.09219	51.04471
EHMT1	283.896	224.1695	241.1063	220.158
EHMT2	0	0	0	0
EI24	944.9324	1071.982	409.8807	695.0958
EID1	55.78015	373.8194	192.885	371.0728
EID2	37.46428	63.52486	16.07375	43.49897
EID2B	9.157935	9.773055	4.018438	6.658005
EID3	2.497619	3.664896	0	0.443867
EIF1	2156.278	3076.069	7908.286	2107.037
EIF1AD	160.6801	115.4442	401.8438	168.2256
EIF1AX	105.7325	86.12505	100.461	53.70791
EIF1AY	132.3738	12.82714	442.0282	8.433473
EIF1B	198.1444	104.4495	855.9273	100.3139
EIF2A	674.3571	540.5721	679.116	356.8691
EIF2AK1	979.0665	822.1583	68.31345	940.5542
EIF2AK2	27.47381	111.1685	0	77.67673
EIF2AK3	39.12936	61.69241	44.20282	102.0894
EIF2AK4	65.77063	128.2714	241.1063	168.6695
EIF2B1	392.1261	235.1641	152.7006	178.8784
EIF2B2	159.8476	361.603	526.4154	189.9751
EIF2B3	148.192	166.7528	273.2538	73.23806
EIF2B4	427.0928	321.2892	1125.163	269.4273
EIF2B5	1658.419	582.7184	542.4891	389.2714
EIF2C1	137.369	134.9903	578.6551	181.5416
EIF2C2	79.9238	77.57363	76.35032	85.22247
EIF2C3	6.660317	23.21101	64.29501	31.07069
EIF2C4	176.4984	61.69241	48.22126	113.1861
EIF2D	273.9055	379.9275	212.9772	248.5655
EIF2S1	164.8428	461.7769	735.3742	291.1768
EIF2S2	730.9697	585.7725	405.8622	359.0884
EIF2S3	676.0221	343.2786	28.12907	344.8847
EIF3A	486.2031	721.3736	2230.233	776.3234
EIF3B	3295.192	2197.716	1221.605	1773.249
EIF3C	0	0	0	0
EIF3CL	0	0	0	0
EIF3D	2294.479	2383.404	3986.291	1083.923
EIF3E	830.042	1294.319	1482.804	497.1311
EIF3F	471.2174	363.4355	1012.646	179.3223
EIF3G	1447.786	665.7894	1314.029	430.551
EIF3H	1810.774	1942.395	4050.586	1040.424
EIF3I	1763.319	1451.299	5111.453	912.1467
EIF3IP1	19.98095	14.65958	514.3601	19.08628
EIF3J	89.08173	232.7209	417.9176	258.3306



EIF3K	2545.906	1779.918	7016.193	826.9243
EIF3L	1193.862	1773.81	835.8351	697.759
EIF3M	497.0261	597.9888	2728.519	252.1165
EIF4A1	0	0	0	0
EIF4A2	2605.849	1594.23	2877.202	1300.974
EIF4A3	576.9499	560.1182	667.0607	326.2423
EIF4B	444.5761	430.0144	401.8438	319.5843
EIF4E	56.61269	67.18975	128.59	39.0603
EIF4E1B	2.497619	0	0	0
EIF4E2	720.1467	575.3886	1398.416	421.6737
EIF4E3	49.11984	40.31385	144.6638	37.7287
EIF4EBP1	1713.366	955.927	739.3926	574.8078
EIF4EBP2	652.711	481.323	84.3872	604.103
EIF4EBP3	13.32063	10.38387	0	11.54054
EIF4ENIF1	180.6611	138.6552	325.4935	130.053
EIF4G1	3930.419	1742.658	2169.957	2055.992
EIF4G2	1408.657	1652.257	9077.652	2235.758
EIF4G3	257.2547	277.3104	847.8904	313.814
EIF4H	365.4849	657.8488	241.1063	653.3723
EIF5	523.6674	1195.367	1024.702	921.4679
EIF5A	1713.366	987.0786	4046.567	993.8183
EIF5A2	81.58888	11.6055	4.018438	4.43867
EIF5AL1	9.157935	12.82714	176.8113	9.321207
EIF5B	1487.748	1102.523	2342.749	899.7184
EIF6	3037.104	2132.969	2716.464	1219.303
ELAC1	13.32063	0	12.05531	1.775468
ELAC2	382.9682	271.2023	108.4978	193.9699
ELANE	0	0	0	0
ELAVL1	415.4372	264.4833	510.3416	268.0957
ELAVL2	0	0	0	0
ELAVL3	0.83254	1.221632	68.31345	0.443867
ELAVL4	0	0.610816	32.1475	0
ELF1	57.44523	131.9362	52.23969	156.6851
ELF2	59.11031	112.3901	176.8113	122.5073
ELF3	7412.932	6004.932	172.7928	5433.82
ELF4	126.546	213.1748	28.12907	204.6227
ELF5	0.83254	62.30323	0	63.91685
ELFN1	0	1.832448	8.036876	3.994803
ELFN2	0	47.03283	64.29501	61.69752
ELK1	123.2159	41.53548	112.5163	79.00833
ELK2AP	0	0	0	0
ELK3	29.13889	38.48141	530.4338	95.87528
ELK4	199.8095	225.3911	16.07375	184.6487
ELL	153.1873	67.80057	60.27657	81.67153
ELL2	69.93332	133.1579	52.23969	138.9304
ELL3	130.7087	72.6871	0	72.79419
ELMO1	3.330158	10.99469	148.6822	23.52495

ELMO2	76.59364	127.0497	421.936	185.9803
ELMO3	1295.432	718.9304	88.40564	513.998
ELMOD1	0	0	16.07375	0
ELMOD2	111.5603	138.6552	20.09219	112.2984
ELMOD3	195.6468	115.4442	20.09219	141.5936
ELN	18.31587	54.36262	257.18	105.6404
ELOF1	679.3523	249.2129	309.4197	201.5156
ELOVL1	932.4443	1646.76	369.6963	832.2507
ELOVL2	0	20.15693	0	5.326404
ELOVL3	1.665079	0	4.018438	3.107069
ELOVL4	0	0	12.05531	0.443867
ELOVL5	31.6365	387.2573	506.3232	304.4928
ELOVL6	86.58412	112.3901	20.09219	58.59045
ELOVL7	50.78491	150.8715	8.036876	132.2724
ELP2	89.08173	188.1313	132.6085	129.6092
ELP3	90.74681	146.5958	172.7928	134.0478
ELP4	45.78968	53.14099	36.16594	16.86695
ELSPBP1	0	0	0	0
ELTD1	2.497619	4.275712	196.9035	11.09668
EMB	147.3595	87.34668	0	63.47298
EMBP1	14.15317	14.65958	8.036876	9.765074
EMCN	0.83254	1.832448	0	0
EMD	407.9444	432.4577	56.25813	267.2079
EME1	19.98095	54.36262	0	67.46779
EME2	9.157935	9.162239	0	39.50416
EMG1	605.2563	795.2824	1442.619	381.7256
EMID1	1.665079	3.664896	16.07375	9.321207
EMID2	0	0	0	0.443867
EMILIN1	79.09126	67.80057	281.2907	113.63
EMILIN2	92.41189	70.24383	365.6779	112.7422
EMILIN3	6.660317	0	12.05531	0.443867
EML1	2.497619	1.832448	104.4794	14.20374
EML2	380.4706	645.6325	405.8622	353.762
EML3	561.9642	563.1723	582.6735	489.5853
EML4	642.7206	586.3833	208.9588	434.1019
EML5	9.990475	6.718975	28.12907	8.87734
EML6	0.83254	2.443264	20.09219	9.765074
EMP1	113.2254	397.0304	269.2353	304.4928
EMP2	1232.159	721.9845	32.1475	437.209
EMP3	163.1778	257.1535	1900.721	313.3701
EMR1	10.82301	20.76774	253.1616	28.85136
EMR2	0	0	0	0
EMR3	0.83254	0	0	0
EMR4P	0	0	0	0
EMX1	5.827777	0	24.11063	0
EMX2	0.83254	3.664896	188.8666	10.20894
EMX2OS	0	0	0	0

EN1	8.325396	4.886528	229.051	9.321207
EN2	25.80873	0	16.07375	0
ENAH	58.27777	238.2182	112.5163	275.6414
ENAM	12.48809	1.832448	0	0.887734
ENC1	667.6967	665.1786	176.8113	711.5188
ENDOD1	200.642	778.1795	40.18438	581.4658
ENDOG	145.6944	70.24383	192.885	38.61643
ENDOU	11.65555	0.610816	4.018438	3.550936
ENDOV	405.4468	268.759	16.07375	169.1133
ENG	58.27777	91.01158	466.1388	207.7298
ENGASE	745.1229	241.2723	156.7191	325.7984
ENHO	19.98095	15.88121	152.7006	15.53535
ENKUR	27.47381	2.443264	8.036876	7.989606
ENO1	15800.77	11986.04	5625.813	7231.481
ENO1-AS1	0	2.443264	0	0.887734
ENO2	894.98	447.7281	337.5488	433.2142
ENO3	112.3928	40.31385	4263.563	75.90126
ENO4	15.81825	6.718975	4.018438	4.43867
ENOPH1	114.0579	288.3051	16.07375	226.816
ENOSF1	230.6135	527.745	4.018438	568.1498
ENOX1	1.665079	7.329791	120.5531	9.321207
ENOX2	64.10555	84.90342	204.9403	56.37111
ENPEP	5.827777	2.443264	68.31345	2.219335
ENPP1	24.14365	15.88121	60.27657	20.86175
ENPP2	4.995237	4.275712	200.9219	16.42308
ENPP3	3.330158	4.275712	64.29501	2.663202
ENPP4	7.492856	70.24383	4.018438	66.58005
ENPP5	0	39.70304	20.09219	51.93244
ENPP6	0	0	4.018438	0
ENPP7	0.83254	0	12.05531	0
ENSA	1131.421	1492.223	984.5173	1031.991
ENTHD1	0.83254	0	4.018438	0.443867
ENTPD1	78.25872	28.09753	144.6638	68.79939
ENTPD2	402.9492	70.24383	216.9957	49.26924
ENTPD3	37.46428	7.940607	16.07375	26.63202
ENTPD3-AS	22.47857	11.6055	0	6.214138
ENTPD4	90.74681	225.3911	168.7744	300.9418
ENTPD5	0	21.98937	36.16594	37.28483
ENTPD6	1815.769	1939.951	76.35032	1433.69
ENTPD7	27.47381	25.04345	12.05531	39.50416
ENTPD8	261.4174	26.8759	0	103.421
ENY2	804.2332	626.6972	1856.518	397.7048
EOMES	4.162698	1.832448	32.1475	0.887734
EP300	122.3833	204.0125	345.5857	258.3306
EP400	214.7952	145.3742	128.59	187.7557
EP400NL	18.31587	8.551423	4.018438	10.65281
EPAS1	110.7278	287.0835	184.8482	240.5759

EPB41	74.92856	84.90342	36.16594	154.9096
EPB41L1	440.4134	986.4678	466.1388	774.9918
EPB41L2	22.47857	101.3954	478.1941	243.2391
EPB41L3	15.81825	3.05408	168.7744	7.989606
EPB41L4A	128.2111	84.90342	16.07375	90.105
EPB41L4A-	253.9246	101.3954	4.018438	52.37631
EPB41L4B	113.2254	83.68179	32.1475	120.7318
EPB41L5	86.58412	152.704	4.018438	193.0822
EPB42	0	1.221632	0	0
EPB49	296.3841	252.8778	32.1475	217.9387
EPC1	41.62698	100.7846	265.2169	113.1861
EPC2	30.80396	75.74118	377.7332	127.8337
EPCAM	1970.621	2387.069	68.31345	1451.445
EPDR1	53.28253	12.21632	32.1475	17.75468
EPG5	32.46904	65.96812	36.16594	113.63
EPGN	0	0	0	0
EPHA1	240.6039	365.8788	92.42408	222.3774
EPHA10	209.8	38.48141	32.1475	48.82537
EPHA2	1204.685	741.5306	52.23969	799.4045
EPHA3	9.157935	18.32448	24.11063	20.41788
EPHA4	12.48809	6.10816	52.23969	16.86695
EPHA5	0	0	16.07375	0
EPHA6	0	7.940607	16.07375	4.882537
EPHA7	1.665079	95.28729	8.036876	16.86695
EPHA8	0.83254	0	20.09219	0.443867
EPHB1	3.330158	20.76774	92.42408	22.63722
EPHB2	12.48809	150.8715	52.23969	253.8919
EPHB3	809.2285	86.73587	281.2907	115.4054
EPHB4	566.1269	4526.757	196.9035	3368.063
EPHB6	9.990475	387.2573	36.16594	225.4844
EPHX1	294.719	441.6199	514.3601	631.6228
EPHX2	38.29682	12.21632	20.09219	16.42308
EPHX3	11.65555	1.832448	20.09219	1.331601
EPHX4	29.97142	5.497344	8.036876	10.20894
EPM2A	10.82301	6.718975	4.018438	8.433473
EPM2AIP1	45.78968	42.1463	16.07375	76.34513
EPN1	1639.27	1396.936	2865.146	952.9825
EPN2	562.7968	100.1738	152.7006	124.7266
EPN3	740.1277	291.3592	0	294.7277
EPO	0	0.610816	0	0.443867
EPOR	10.82301	54.97344	56.25813	99.87008
EPPK1	333.0158	202.7909	40.18438	276.5292
EPRS	621.9071	918.0564	1084.978	579.6903
EPS15	100.7373	158.2013	474.1757	163.3431
EPS15L1	45.78968	44.58956	140.6453	64.36072
EPS8	143.1968	1009.068	160.7375	789.1956
EPS8L1	3316.005	1312.643	40.18438	1059.954

EPS8L2	1909.846	1407.931	84.3872	1221.966
EPS8L3	3725.615	692.0545	16.07375	836.2455
EPSTI1	160.6801	200.3476	28.12907	108.7474
EPT1	329.6857	144.7634	12.05531	168.6695
EPX	0.83254	0.610816	16.07375	0.443867
EPYC	0	0	8.036876	0
ERAL1	511.1793	623.6431	92.42408	433.6581
ERAP1	114.8905	191.1854	245.1247	189.9751
ERAP2	47.45476	230.2776	8.036876	130.053
ERAS	4.162698	0.610816	0	1.331601
ERBB2	2465.982	2692.477	148.6822	1878.445
ERBB2IP	127.3786	204.0125	249.1432	279.6362
ERBB3	2390.221	1211.859	92.42408	870.8671
ERBB4	0.83254	0.610816	32.1475	1.775468
ERC1	82.42142	178.3583	44.20282	165.1185
ERC2	4.162698	0	16.07375	0
ERCC1	220.623	659.0704	417.9176	246.3462
ERCC2	238.1063	213.1748	116.5347	144.7006
ERCC3	279.7333	322.5108	249.1432	320.0281
ERCC4	7.492856	28.09753	64.29501	24.41269
ERCC5	1.665079	3.05408	8.036876	8.87734
ERCC6	25.80873	37.87059	16.07375	71.90646
ERCC6L	36.63174	80.62771	8.036876	28.40749
ERCC8	9.990475	36.03814	16.07375	29.29522
EREG	3.330158	72.07628	0	91.88047
ERF	422.9301	341.4461	329.5119	301.8296
ERG	0.83254	12.21632	204.9403	15.97921
ERGIC1	657.7063	688.3896	269.2353	743.9211
ERGIC2	62.44047	193.0178	168.7744	168.6695
ERGIC3	2495.954	2399.285	3443.801	2192.703
ERH	258.0873	491.096	924.2408	385.2766
ERI1	34.13412	91.62239	28.12907	60.36591
ERI2	18.31587	37.25977	8.036876	47.0499
ERI3	681.0174	357.9381	1872.592	327.5739
ERICH1	154.8524	92.84402	0	60.36591
ERLEC1	125.7135	297.4674	522.3969	258.3306
ERLIN1	190.6516	160.0338	64.29501	110.079
ERLIN2	230.6135	266.3158	20.09219	233.0302
ERMAP	95.74205	45.8112	4.018438	64.36072
ERMN	3.330158	0	0	0.887734
ERMP1	116.5555	357.9381	32.1475	263.657
ERN1	9.990475	28.09753	20.09219	43.49897
ERN2	2379.398	2323.544	64.29501	2357.822
ERO1L	170.6706	560.1182	12.05531	457.6269
ERO1LB	9.157935	4.275712	20.09219	16.42308
ERP27	0.83254	31.15161	0	95.43141
ERP29	2306.135	1095.193	2740.575	939.6665

ERP44	544.4809	397.6412	438.0097	296.947
ERRFI1	294.719	484.3771	755.4664	465.1726
ERV3-1	25.80873	53.14099	0	207.7298
ERVFRD-1	0	0	0	0
ERVK13-1	44.95714	39.70304	0	46.60604
ERVMER34	14.98571	4.275712	0	11.98441
ERVV-1	0	0	0	0.887734
ERVV-2	0	0	0	0
ESAM	51.61745	31.15161	502.3048	44.3867
ESCO1	59.94285	41.53548	341.5672	55.03951
ESCO2	2.497619	29.92998	0	22.63722
ESD	480.3753	533.2423	3130.363	236.5811
ESF1	51.61745	106.282	172.7928	67.91165
ESM1	0	5.497344	4.018438	3.550936
ESPL1	157.35	72.07628	72.33188	81.67153
ESPN	124.8809	4.275712	72.33188	6.658005
ESPNL	2.497619	7.329791	8.036876	15.09148
ESPNP	14.15317	3.05408	0	10.20894
ESR1	7.492856	6.10816	112.5163	14.20374
ESR2	0	2.443264	16.07375	2.663202
ESRG	0	0	0	0.443867
ESRP1	420.4325	460.5552	28.12907	397.7048
ESRP2	730.1372	233.3317	20.09219	260.9938
ESRRA	1362.867	641.3568	831.8167	477.6009
ESRRB	0	0	12.05531	0.443867
ESRRG	0	6.718975	0	11.09668
ESX1	0.83254	0	0	0
ESYT1	514.5095	303.5755	586.692	351.0988
ESYT2	320.5277	699.3843	64.29501	535.7475
ESYT3	14.15317	3.05408	20.09219	3.550936
ETAA1	54.94761	103.8387	12.05531	58.14658
ETF1	493.696	349.9975	1181.421	364.8587
ETFA	273.073	818.4934	2571.8	551.7267
ETFB	2886.415	2310.717	3717.055	897.0552
ETFDH	208.9674	79.40607	442.0282	109.1913
ETHE1	565.2944	546.0695	357.641	142.9252
ETNK1	417.9349	348.7759	76.35032	375.5115
ETNK2	2.497619	18.32448	24.11063	54.59564
ETS1	88.2492	133.7687	357.641	153.578
ETS2	786.7499	388.4789	40.18438	235.2495
ETV1	46.62222	28.09753	88.40564	70.13099
ETV2	25.80873	5.497344	12.05531	2.663202
ETV3	2.497619	14.65958	8.036876	25.74429
ETV3L	0	0	0	0
ETV4	371.3127	307.8512	120.5531	203.735
ETV5	220.623	82.46015	84.3872	108.3036
ETV6	372.1452	430.6252	116.5347	628.0718

ETV7	114.8905	71.46547	4.018438	59.03431
EVC	0	0	0	3.107069
EVC2	1.665079	1.832448	32.1475	2.663202
EVI2A	1.665079	9.773055	112.5163	6.658005
EVI2B	6.660317	19.54611	4.018438	15.97921
EVI5	44.95714	21.37856	52.23969	29.73909
EVI5L	210.6325	36.64896	104.4794	73.23806
EVL	248.0968	67.18975	2165.938	83.89087
EVPL	1061.488	1078.701	72.33188	609.4294
EVPLL	0	0.610816	0	0.443867
EVX1	0.83254	1.221632	8.036876	3.107069
EVX2	0	0	24.11063	0
EWSR1	3112.865	2184.278	4368.042	1591.707
EXD1	0	0.610816	0	1.775468
EXD2	36.63174	128.2714	68.31345	142.9252
EXD3	289.7238	40.92467	12.05531	59.03431
EXO1	40.79444	90.40076	4.018438	60.36591
EXOC1	148.192	275.478	305.4013	255.6674
EXOC2	36.63174	63.52486	84.3872	66.58005
EXOC3	550.3087	456.2795	325.4935	388.8275
EXOC3L1	22.47857	8.551423	96.44251	16.86695
EXOC3L2	0	1.221632	16.07375	1.331601
EXOC3L4	142.3643	319.4567	44.20282	181.0977
EXOC4	331.3508	430.0144	76.35032	251.2287
EXOC5	33.30158	72.6871	196.9035	64.80458
EXOC6	120.7182	70.85465	257.18	41.27963
EXOC6B	2.497619	9.773055	40.18438	17.75468
EXOC7	547.811	704.8816	948.3514	692.8764
EXOC8	34.13412	61.0816	24.11063	75.90126
EXOG	75.7611	21.37856	0	25.30042
EXOSC1	219.7904	189.3529	172.7928	138.0426
EXOSC10	461.2269	457.5011	164.756	437.209
EXOSC2	271.4079	164.9203	160.7375	102.5333
EXOSC3	86.58412	167.3636	188.8666	83.00313
EXOSC4	892.4824	447.7281	309.4197	283.631
EXOSC5	279.7333	321.9	458.1019	135.3794
EXOSC6	124.0484	121.5524	164.756	102.5333
EXOSC7	417.9349	260.8184	590.7104	153.1341
EXOSC8	267.2452	205.2342	586.692	110.5229
EXOSC9	183.9912	118.4983	413.8991	62.14138
EXPH5	45.78968	53.7518	8.036876	53.70791
EXT1	434.5857	492.9285	1004.61	717.2891
EXT2	218.9579	185.688	337.5488	187.7557
EXTL1	0	0.610816	0	1.331601
EXTL2	61.60793	43.36793	4.018438	38.17256
EXTL3	242.269	216.8397	20.09219	256.1113
EYA1	0.83254	0	16.07375	7.989606

EYA2	200.642	17.71366	4.018438	26.63202
EYA3	207.3024	97.73055	257.18	125.6144
EYA4	4.162698	1.221632	96.44251	4.882537
EYS	0	7.940607	4.018438	2.663202
EZH1	77.42618	156.3689	164.756	121.1757
EZH2	343.0063	215.618	281.2907	165.5624
EZR	6308.985	6254.755	281.2907	3621.067
F10	24.97619	0.610816	96.44251	2.663202
F11	27.47381	3.664896	0	9.765074
F11R	1241.317	1578.348	12.05531	1529.122
F12	163.1778	223.5586	8.036876	120.7318
F13A1	8.325396	23.21101	582.6735	47.0499
F13B	0	0	0	0.443867
F2	0.83254	0	4.018438	1.775468
F2R	2.497619	26.26509	24.11063	31.51456
F2RL1	154.8524	377.4843	4.018438	309.3753
F2RL2	0	1.221632	0	0.443867
F2RL3	0	0	8.036876	0
F3	316.365	239.4399	28.12907	154.4657
F5	84.91904	269.3698	12.05531	240.1321
F7	24.97619	3.05408	144.6638	1.331601
F8	1.665079	8.551423	24.11063	11.54054
F8A1	32.46904	6.10816	0	6.214138
F8A2	0	0	0	0
F8A3	0	0	0	0
F9	0	0	0	0
FA2H	526.9976	479.4905	20.09219	300.498
FAAH	467.8872	348.1651	16.07375	225.9283
FAAH2	144.8619	37.25977	0	54.15178
FABP1	96.57459	0.610816	16.07375	0
FABP12	0	0	0	0.887734
FABP2	14.15317	0	0	0
FABP3	9.157935	6.10816	76.35032	11.09668
FABP4	15.81825	13.43795	4315.802	22.63722
FABP5	20.81349	6.10816	16.07375	10.20894
FABP5P3	3.330158	0.610816	76.35032	2.219335
FABP6	242.269	7.940607	4.018438	9.321207
FABP7	0.83254	0	0	1.331601
FABP9	0	0.610816	132.6085	0.443867
FADD	177.3309	524.6909	28.12907	303.1612
FADS1	9.990475	200.3476	92.42408	149.5832
FADS2	10.82301	1065.874	76.35032	502.4575
FADS3	94.90951	66.57894	76.35032	98.09461
FADS6	0	0	12.05531	0
FAF1	324.6904	369.5437	863.9642	220.6019
FAF2	298.8817	419.6306	88.40564	447.8618
FAH	84.0865	146.5958	261.1985	81.22766



FAHD1	159.8476	202.7909	104.4794	132.2724
FAHD2A	87.41666	32.98406	12.05531	30.62682
FAHD2B	13.32063	14.65958	12.05531	17.75468
FAIM	134.0389	114.2226	144.6638	80.7838
FAIM2	29.97142	0.610816	8.036876	4.43867
FAIM3	3.330158	39.09222	0	30.18296
FAM100A	382.1357	160.0338	960.4067	155.3535
FAM100B	2205.397	646.2433	626.8763	652.4845
FAM101A	0	0	0	0
FAM101B	0	3.05408	48.22126	6.658005
FAM102A	605.2563	204.0125	76.35032	367.9658
FAM102B	51.61745	79.40607	64.29501	40.83577
FAM103A1	6.660317	25.65427	0	16.86695
FAM104A	200.642	232.1101	285.3091	161.1237
FAM104B	88.2492	37.87059	0	39.50416
FAM105A	56.61269	25.65427	112.5163	39.94803
FAM105B	148.192	103.8387	863.9642	92.76821
FAM106A	0	0	0	0
FAM106CP	0	0.610816	0	0
FAM107A	4.995237	0	12.05531	0.443867
FAM107B	262.25	857.5856	76.35032	724.8348
FAM108A1	144.0293	65.35731	12.05531	51.48857
FAM108B1	39.9619	32.37325	68.31345	35.95323
FAM108C1	208.9674	303.5755	273.2538	261.8815
FAM109A	308.8722	381.1492	4.018438	184.2048
FAM109B	379.638	226.0019	12.05531	181.9855
FAM110A	561.1317	295.6349	36.16594	226.3722
FAM110B	5.827777	54.36262	116.5347	39.50416
FAM110C	230.6135	47.03283	0	65.24845
FAM110D	19.98095	37.87059	578.6551	40.3919
FAM111A	598.596	308.4621	36.16594	397.7048
FAM111B	60.77539	73.90873	0	71.01872
FAM113A	598.596	598.5996	172.7928	583.2413
FAM113B	112.3928	72.07628	16.07375	60.80978
FAM114A1	240.6039	243.7156	72.33188	316.0333
FAM114A2	30.80396	62.91404	116.5347	45.7183
FAM115A	7.492856	28.70835	44.20282	28.40749
FAM115C	12.48809	31.15161	4.018438	10.65281
FAM116A	54.11507	47.03283	104.4794	43.49897
FAM116B	168.173	235.775	80.36876	174.4397
FAM117A	41.62698	27.48672	208.9588	41.27963
FAM117B	21.64603	23.21101	72.33188	22.63722
FAM118A	209.8	128.2714	48.22126	75.45739
FAM118B	241.4365	215.618	253.1616	162.0115
FAM120A	919.1237	439.7875	2523.579	521.5437
FAM120AC	231.446	230.2776	0	133.1601
FAM120B	105.7325	84.2926	68.31345	74.12579

FAM120C	43.29206	18.32448	124.5716	35.06549
FAM122A	65.77063	43.36793	405.8622	61.69752
FAM122B	239.7714	187.5205	20.09219	173.9959
FAM122C	14.98571	20.76774	0	20.86175
FAM123A	0	1.832448	36.16594	3.550936
FAM123B	32.46904	24.43264	76.35032	16.42308
FAM123C	0	0.610816	0	0
FAM124A	3.330158	0	36.16594	0.443867
FAM124B	0	1.832448	0	13.75988
FAM125A	503.6864	284.0294	450.0651	175.3275
FAM125B	4.995237	8.551423	56.25813	10.65281
FAM126A	3.330158	7.329791	16.07375	9.765074
FAM126B	44.95714	56.80588	16.07375	81.22766
FAM127A	642.7206	599.2105	28.12907	303.605
FAM127B	479.5428	615.0917	36.16594	316.0333
FAM127C	37.46428	26.26509	100.461	49.26924
FAM129A	28.30635	20.76774	40.18438	42.16737
FAM129B	3269.383	1385.331	1121.144	1074.158
FAM129C	0	1.221632	4.018438	0.443867
FAM131A	128.2111	86.73587	120.5531	65.69232
FAM131B	34.13412	46.42201	32.1475	17.31081
FAM131C	9.990475	2.443264	4.018438	1.775468
FAM132A	139.8666	23.21101	32.1475	33.29003
FAM133A	0	0	4.018438	0
FAM133B	0.83254	1.221632	0	0.887734
FAM134A	799.238	656.6272	574.6366	733.2683
FAM134B	96.57459	142.9309	8.036876	84.7786
FAM134C	328.8531	660.292	277.2722	554.8338
FAM135A	46.62222	47.03283	80.36876	33.73389
FAM135B	0.83254	1.221632	8.036876	0
FAM136A	677.6872	480.7122	136.6269	400.8119
FAM138A	0	0	0	0
FAM138B	0	0	0	0
FAM138C	0	0	0	0
FAM138D	0	0	0	0
FAM138E	0	0	0	0
FAM138F	0	0	0	0
FAM13A	164.0103	190.5746	12.05531	201.9595
FAM13A-A	13.32063	17.71366	8.036876	7.545739
FAM13B	60.77539	65.96812	208.9588	87.4418
FAM13C	0.83254	1.221632	32.1475	3.550936
FAM149A	398.7865	225.3911	60.27657	157.1289
FAM149B1	49.11984	125.2173	44.20282	119.4002
FAM150A	0	4.275712	0	3.107069
FAM150B	0	1.221632	0	0
FAM151A	2.497619	0.610816	0	1.331601
FAM151B	3.330158	7.940607	16.07375	5.770271

FAM153A	0	0	0	0
FAM153B	0	0	0	0
FAM153C	0	0	0	0
FAM154A	0	0.610816	0	0.443867
FAM154B	8.325396	3.664896	0	1.331601
FAM155A	0	39.70304	44.20282	34.62163
FAM155B	6.660317	3.664896	36.16594	11.09668
FAM156A	0	0	0	0.443867
FAM156B	0	0	0	0
FAM157A	0	0.610816	0	0.443867
FAM157B	0	0	8.036876	0
FAM158A	133.2063	190.5746	397.8254	142.9252
FAM159A	0	1.832448	8.036876	0
FAM159B	0	0	8.036876	0
FAM160A1	20.81349	32.98406	12.05531	35.50936
FAM160A2	781.7547	274.8672	325.4935	223.2651
FAM160B1	49.11984	21.98937	64.29501	35.50936
FAM160B2	398.7865	492.9285	100.461	514.8857
FAM161A	3.330158	12.82714	8.036876	6.658005
FAM161B	3.330158	50.08691	4.018438	31.51456
FAM162A	1969.789	566.8372	775.5585	296.0593
FAM162B	0	0	0	0
FAM163A	0.83254	0	8.036876	0.443867
FAM163B	0	0	0	0
FAM165B	129.0436	44.58956	297.3644	31.07069
FAM166A	0	0	0	0
FAM166B	4.995237	0.610816	0	0
FAM167A	48.2873	34.81651	0	52.37631
FAM167B	34.96666	28.70835	72.33188	31.07069
FAM168A	8.325396	9.162239	36.16594	18.19855
FAM168B	513.6769	413.5224	341.5672	420.7859
FAM169A	7.492856	0.610816	16.07375	3.107069
FAM169B	12.48809	0	4.018438	6.658005
FAM170A	0	0.610816	0	0
FAM170B	0	0	0	0
FAM171A1	209.8	219.8937	200.9219	170.0011
FAM171A2	7.492856	12.82714	140.6453	26.63202
FAM171B	0	4.886528	0	16.42308
FAM172A	14.15317	33.59488	44.20282	34.62163
FAM172BF	0	0	0	1.331601
FAM173A	545.3134	404.971	353.6225	273.4221
FAM173B	38.29682	74.51955	8.036876	40.83577
FAM174A	49.95237	69.63302	305.4013	73.23806
FAM174B	121.5508	268.1482	12.05531	228.5915
FAM175A	9.157935	20.15693	0	14.64761
FAM175B	89.08173	70.24383	172.7928	80.33993
FAM176A	19.14841	28.09753	24.11063	84.7786

FAM176B	467.0547	288.3051	297.3644	232.1425
FAM177A1	92.41189	222.337	16.07375	110.079
FAM177B	137.369	40.92467	0	44.83057
FAM178A	183.9912	61.0816	132.6085	88.32954
FAM178B	0	0	0	1.775468
FAM179A	19.14841	1.832448	24.11063	5.326404
FAM179B	18.31587	35.42733	72.33188	62.58525
FAM180A	0	0.610816	16.07375	0.887734
FAM180B	0	0	8.036876	0.443867
FAM181A	0	0	0	0.443867
FAM181A-	0	0	0	0
FAM181B	0	0	12.05531	3.107069
FAM182A	0.83254	0	0	0
FAM182B	1.665079	0	0	0.443867
FAM183A	8.325396	6.10816	0	11.54054
FAM183B	7.492856	0	0	3.994803
FAM184A	0	20.15693	8.036876	14.20374
FAM184B	21.64603	12.82714	4.018438	15.53535
FAM185A	9.157935	58.02752	0	30.62682
FAM186A	0.83254	0	0	1.331601
FAM186B	0	4.275712	4.018438	3.994803
FAM187B	0	0	0	0.443867
FAM188A	30.80396	78.79526	124.5716	76.78899
FAM188B	0	0.610816	0	1.331601
FAM189A1	0	0	8.036876	0
FAM189A2	89.91427	29.92998	28.12907	40.83577
FAM189B	268.0777	136.8228	245.1247	229.0354
FAM18A	2.497619	1.221632	12.05531	4.882537
FAM18B1	21.64603	53.7518	20.09219	27.51976
FAM18B2	19.14841	7.940607	4.018438	16.42308
FAM18B2-	0	0	0	0
FAM190A	13.32063	27.48672	4.018438	16.42308
FAM190B	33.30158	53.14099	88.40564	40.83577
FAM192A	939.9372	331.6731	176.8113	359.0884
FAM193A	141.5317	154.5364	273.2538	311.1508
FAM193B	1070.646	304.7972	1101.052	565.0427
FAM194A	4.162698	1.221632	8.036876	1.331601
FAM194B	0	0	0	0
FAM195A	1314.58	265.7049	120.5531	184.6487
FAM195B	677.6872	858.8072	1101.052	347.104
FAM196A	7.492856	1.832448	24.11063	1.331601
FAM196B	0.83254	0.610816	24.11063	0.443867
FAM197Y2	0	0	0	0
FAM197Y5	0	0	0	0
FAM198A	9.157935	25.65427	20.09219	35.50936
FAM198B	0	18.93529	24.11063	47.0499
FAM199X	79.09126	139.8769	20.09219	111.8545

FAM19A1	2.497619	0.610816	16.07375	2.663202
FAM19A2	0	3.05408	8.036876	0.443867
FAM19A3	0	4.275712	8.036876	1.331601
FAM19A4	0	0	0	0
FAM19A5	0	4.886528	40.18438	5.326404
FAM200A	8.325396	56.80588	0	66.13619
FAM200B	67.43571	144.1526	0	134.0478
FAM201A	23.31111	47.64364	0	34.62163
FAM203A	1.665079	9.773055	0	5.770271
FAM204A	178.1635	127.0497	160.7375	83.00313
FAM205A	0.83254	0.610816	4.018438	1.331601
FAM205B	0	0	0	0.443867
FAM206A	41.62698	58.02752	4.018438	54.15178
FAM207A	124.0484	67.18975	8.036876	35.50936
FAM208A	126.546	162.477	56.25813	153.578
FAM208B	69.93332	152.704	20.09219	247.6778
FAM209A	3.330158	1.221632	0	0.887734
FAM209B	7.492856	3.664896	0	1.775468
FAM20A	6.660317	14.65958	88.40564	31.07069
FAM20B	312.2023	198.5152	80.36876	171.3327
FAM20C	231.446	317.6243	184.8482	301.3857
FAM210A	44.95714	48.86528	4.018438	43.94283
FAM210B	150.6897	240.0507	8.036876	145.5884
FAM211A	19.14841	11.6055	60.27657	13.31601
FAM211B	190.6516	871.0236	16.07375	301.8296
FAM212A	9.990475	8.551423	156.7191	9.321207
FAM212B	39.12936	11.6055	16.07375	12.87214
FAM213A	64.10555	154.5364	8.036876	130.053
FAM213B	1377.02	1583.846	578.6551	757.2371
FAM214A	20.81349	49.47609	225.0325	119.4002
FAM214B	596.9309	353.6624	634.9132	375.9554
FAM215A	0	0	0	0
FAM216A	14.98571	4.886528	56.25813	4.43867
FAM216B	0	0	0	0
FAM217A	0	0	0	1.331601
FAM217B	27.47381	37.25977	0	39.50416
FAM21A	0	3.05408	0	3.994803
FAM21B	12.48809	0	0	0.443867
FAM21C	14.15317	20.76774	4.018438	25.74429
FAM22A	0	0.610816	0	0.887734
FAM22D	0	0.610816	0	0.887734
FAM22F	0	0	0	0
FAM22G	5.827777	0.610816	0	1.775468
FAM24A	0	0	0	0
FAM24B	150.6897	29.31917	0	23.08108
FAM24B-C	0	0	0	0
FAM25A	0	0	0	2.663202

FAM25B	0	0	0	0
FAM25C	0	0	0	0
FAM25G	0	0	0	0
FAM26D	0	0	0	0
FAM26E	0	3.664896	0	3.994803
FAM26F	23.31111	83.68179	36.16594	58.59045
FAM27A	25.80873	4.886528	0	2.663202
FAM27B	0	0	0	0
FAM27C	0	0	0	0
FAM27L	0	0	0	0
FAM32A	796.7404	462.3877	241.1063	353.3181
FAM35A	63.27301	45.20038	0	24.41269
FAM35B	0	0	8.036876	0
FAM35B2	3.330158	0.610816	0	0.443867
FAM3A	828.3769	773.293	104.4794	493.5801
FAM3B	1189.699	40.92467	4.018438	21.30562
FAM3C	47.45476	138.0444	16.07375	83.447
FAM3D	5796.141	269.3698	48.22126	223.709
FAM40A	220.623	150.8715	433.9913	172.6643
FAM40B	28.30635	10.38387	12.05531	39.0603
FAM41AY1	0	0	0	0
FAM41AY2	0	0	0	0
FAM41C	0	0	0	0
FAM43A	11.65555	21.37856	249.1432	32.84616
FAM43B	0	0	40.18438	0
FAM45A	0	0	0	0
FAM45B	4.995237	4.275712	0	5.770271
FAM46A	195.6468	86.12505	534.4523	136.711
FAM46B	3.330158	25.65427	24.11063	23.08108
FAM46C	69.93332	3.664896	12.05531	13.31601
FAM46D	0	0	0	0
FAM47A	0	0	0	0
FAM47B	0	0	0	0
FAM47C	0	0	0	0
FAM47E	10.82301	17.10285	0	12.87214
FAM47E-S	0	0	0	0
FAM48A	207.3024	155.1473	454.0835	229.4792
FAM48B1	0.83254	1.221632	84.3872	0.887734
FAM48B2	0	0.610816	815.7429	0
FAM49A	9.157935	2.443264	176.8113	7.101872
FAM49B	319.6952	317.6243	1113.107	308.4876
FAM50A	1028.186	1362.12	787.6139	813.1644
FAM50B	0	91.62239	28.12907	59.47818
FAM53A	8.325396	14.04877	100.461	28.40749
FAM53B	193.1492	61.0816	80.36876	100.3139
FAM53C	332.1833	105.0603	438.0097	173.9959
FAM54A	59.11031	37.25977	0	23.96882

FAM54B	272.2404	231.4992	582.6735	235.2495
FAM55A	0	0	12.05531	0
FAM55B	2.497619	0	0	0.443867
FAM55C	30.80396	20.15693	60.27657	12.42828
FAM55D	0	0	0	1.331601
FAM57A	220.623	255.3211	16.07375	153.1341
FAM57B	5.827777	0.610816	20.09219	1.775468
FAM58A	260.5849	252.8778	4.018438	124.7266
FAM58BP	3.330158	1.832448	88.40564	2.663202
FAM59A	54.11507	96.50892	56.25813	90.105
FAM59B	28.30635	21.37856	12.05531	23.52495
FAM5B	0	2.443264	8.036876	0.443867
FAM5C	6.660317	14.04877	36.16594	31.95843
FAM60A	50.78491	104.4495	24.11063	84.33473
FAM63A	124.0484	212.564	413.8991	208.1736
FAM63B	6.660317	26.26509	36.16594	30.62682
FAM64A	84.91904	62.30323	4.018438	48.3815
FAM65A	159.8476	202.7909	329.5119	350.2111
FAM65B	0	0	28.12907	2.663202
FAM65C	4.162698	6.718975	32.1475	126.946
FAM66A	0	0	0	0
FAM66B	0.83254	0	0	0
FAM66C	0	1.221632	0	1.331601
FAM66D	0	1.832448	0	1.775468
FAM66E	0	0	0	0
FAM69A	39.12936	21.98937	200.9219	34.17776
FAM69B	63.27301	31.76243	56.25813	35.95323
FAM69C	10.82301	0	8.036876	0
FAM70A	0	0.610816	8.036876	6.658005
FAM70B	2.497619	0.610816	28.12907	2.219335
FAM71A	0	0	0	0.443867
FAM71B	0	0	0	0.443867
FAM71C	0	0	0	0
FAM71D	0	0.610816	0	0
FAM71E1	34.96666	17.71366	4.018438	8.433473
FAM71E2	0	15.88121	0	43.94283
FAM71F1	0	0	0	0.443867
FAM71F2	8.325396	10.38387	12.05531	31.07069
FAM72A	4.995237	0.610816	12.05531	3.550936
FAM72B	4.162698	4.275712	0	0.887734
FAM72D	2.497619	1.832448	0	1.775468
FAM73A	3.330158	45.8112	0	36.3971
FAM73B	790.0801	194.2395	20.09219	211.2807
FAM74A1	0	0	0	0
FAM74A2	0	0	0	0
FAM74A3	0	0	0	0
FAM74A4	0	0	0	0

FAM75A1	0	0	0	0
FAM75A2	0	0	0	0
FAM75A3	0	0	0	0
FAM75A4	0	0	0	0
FAM75A5	0	0	0	0
FAM75A6	0	0	0	0
FAM75A7	0	0	0	0
FAM75C1	2.497619	0	0	0
FAM75C2	0	0	0	0
FAM75D1	0	0	12.05531	0
FAM75D3	0	0	0	0
FAM75D4	0	0	0	0
FAM75D5	0	0	0	0
FAM76A	59.11031	62.91404	112.5163	71.46259
FAM76B	24.97619	45.8112	116.5347	55.92724
FAM78A	6.660317	1.221632	36.16594	1.775468
FAM78B	27.47381	9.773055	208.9588	9.765074
FAM81A	31.6365	23.82182	0	15.97921
FAM81B	83.25396	4.275712	8.036876	8.433473
FAM82A1	17.48333	31.15161	8.036876	32.40229
FAM82A2	135.704	351.2192	112.5163	363.5271
FAM82B	253.092	198.5152	188.8666	134.9356
FAM83A	94.90951	530.7991	32.1475	612.0926
FAM83B	4.995237	42.1463	0	30.62682
FAM83C	2.497619	3.05408	12.05531	1.331601
FAM83D	46.62222	87.34668	0	57.25885
FAM83E	1178.044	853.9207	24.11063	466.0604
FAM83F	107.3976	125.2173	24.11063	60.36591
FAM83G	7.492856	28.70835	8.036876	42.61123
FAM83H	2900.568	1153.831	36.16594	995.1499
FAM84A	332.1833	1.221632	20.09219	5.326404
FAM84B	302.2119	439.1767	20.09219	284.5188
FAM86A	30.80396	50.08691	32.1475	26.18815
FAM86B1	6.660317	17.10285	0	10.20894
FAM86B2	3.330158	0.610816	0	2.663202
FAM86C1	29.13889	48.25446	0	19.08628
FAM86C2P	17.48333	42.75712	0	26.63202
FAM86DP	19.98095	9.773055	32.1475	7.101872
FAM86EP	34.96666	26.26509	4.018438	23.96882
FAM86FP	21.64603	18.93529	0	18.19855
FAM86HP	174.8333	17.71366	0	18.64241
FAM89A	8.325396	70.24383	4.018438	82.1154
FAM89B	467.0547	583.3292	1161.329	474.05
FAM8A1	20.81349	61.0816	32.1475	101.6455
FAM90A1	2.497619	7.329791	0	23.52495
FAM90A1C	0	0	0	0
FAM90A1C	0	0	0	0



FAM90A13	0	0	0	0
FAM90A14	0	0	0	0
FAM90A18	0	0	0	0
FAM90A19	0	0	0	0
FAM90A2C	0	0	0	0.443867
FAM90A25	0	0	0	0
FAM90A27	0	0	0	0
FAM90A2F	0	0	0	0
FAM90A5	0	0	0	0
FAM90A7	0	0	0	0
FAM90A7F	0	0	0	0
FAM90A8	0	0	0	0
FAM90A9	0	0	0	0
FAM91A1	143.1968	98.95218	48.22126	129.1653
FAM91A2	0.83254	0	0	0.887734
FAM92A1	58.27777	7.940607	68.31345	4.43867
FAM92A3	0	4.275712	8.036876	1.331601
FAM92B	7.492856	0	0	0.443867
FAM95B1	0	0	8.036876	0.443867
FAM96A	150.6897	351.83	787.6139	294.2838
FAM96B	893.315	468.4958	180.8297	288.9574
FAM98A	127.3786	133.7687	172.7928	128.7214
FAM98B	5.827777	63.52486	44.20282	43.0551
FAM98C	241.4365	278.5321	245.1247	115.4054
FAM99A	0	0	0	0
FAM99B	0	0	0	0
FAM9A	0.83254	0.610816	0	0
FAM9B	0	0	0	0.443867
FAM9C	0	0	0	0
FAN1	41.62698	62.30323	16.07375	123.395
FANCA	195.6468	132.5471	4.018438	138.0426
FANCB	0.83254	4.886528	4.018438	7.545739
FANCC	99.90475	83.07097	12.05531	51.93244
FANCD2	202.3071	77.57363	4.018438	105.1965
FANCE	34.96666	33.59488	44.20282	29.73909
FANCF	62.44047	77.57363	4.018438	47.93764
FANCG	315.5325	200.3476	12.05531	196.1892
FANCI	253.9246	327.3974	24.11063	308.9314
FANCL	74.09602	86.12505	76.35032	69.24325
FANCM	14.98571	20.15693	16.07375	16.42308
FANK1	125.7135	56.80588	4.018438	52.82018
FAP	31.6365	102.6171	707.2451	99.42621
FAR1	228.9484	81.84934	160.7375	110.9668
FAR2	24.97619	37.25977	0	38.17256
FARP1	363.8198	292.5808	92.42408	252.5603
FARP2	144.0293	156.9797	36.16594	147.3639
FARS2	74.92856	183.2448	321.475	78.1206

FARSA	803.4007	318.2351	482.2126	346.2163
FARSB	735.965	616.3133	731.3557	449.6373
FAS	74.09602	15.88121	0	19.53015
FAS-AS1	0	0	0	0
FASLG	0	0	8.036876	0.887734
FASN	1071.478	776.9579	112.5163	437.209
FASTK	1823.262	1082.366	522.3969	952.5386
FASTKD1	68.26825	74.51955	24.11063	58.14658
FASTKD2	124.8809	218.0613	16.07375	125.6144
FASTKD3	29.13889	43.97875	16.07375	46.60604
FASTKD5	69.93332	93.45484	16.07375	99.42621
FAT1	415.4372	952.2621	289.3275	1057.291
FAT2	11.65555	0.610816	52.23969	2.663202
FAT3	0	1.221632	16.07375	5.326404
FAT4	4.162698	31.76243	28.12907	12.42828
FATE1	0	0	0	0
FAU	5931.844	3674.058	33469.57	2380.015
FAXC	1.665079	7.329791	28.12907	18.64241
FBF1	85.75158	128.8822	60.27657	148.2516
FBL	2199.57	1577.738	2676.28	495.3556
FBLIM1	406.2793	681.0598	28.12907	514.8857
FBLL1	18.31587	5.497344	337.5488	12.87214
FBLN1	307.2071	484.3771	4364.024	1006.247
FBLN2	78.25872	114.8334	2129.772	357.7568
FBLN5	17.48333	10.38387	357.641	87.88567
FBLN7	17.48333	30.5408	602.7657	42.61123
FBN1	134.8714	477.0473	3086.16	782.5376
FBN2	19.14841	35.42733	60.27657	39.0603
FBN3	0	0	0	1.331601
FBP1	1332.063	466.6634	12.05531	326.6861
FBP2	3.330158	1.221632	36.16594	0.443867
FBRS	864.1761	431.8469	530.4338	591.6747
FBRSL1	815.0562	254.7103	116.5347	264.1009
FBXL12	135.704	95.28729	88.40564	99.42621
FBXL13	13.32063	21.37856	0	14.64761
FBXL14	22.47857	65.35731	84.3872	94.54367
FBXL15	658.5388	223.5586	494.2679	129.1653
FBXL16	0.83254	4.275712	56.25813	11.54054
FBXL17	27.47381	31.76243	265.2169	49.71311
FBXL18	124.0484	146.5958	88.40564	198.4086
FBXL19	289.7238	185.688	241.1063	249.4533
FBXL19-AS	15.81825	7.329791	12.05531	23.08108
FBXL2	57.44523	60.47078	32.1475	56.37111
FBXL20	108.2301	78.79526	120.5531	110.5229
FBXL21	0	0	4.018438	0
FBXL22	0	1.221632	4.018438	2.219335
FBXL3	58.27777	71.46547	192.885	67.91165

FBXL4	18.31587	48.25446	192.885	44.3867
FBXL5	102.4024	216.2288	490.2494	265.8763
FBXL6	1526.878	517.9719	216.9957	604.9907
FBXL7	0.83254	0	16.07375	0.887734
FBXL8	119.8857	53.14099	4.018438	82.1154
FBXO10	27.47381	30.5408	28.12907	33.73389
FBXO11	112.3928	154.5364	912.1854	171.7765
FBXO15	0	26.8759	0	9.765074
FBXO16	4.995237	2.443264	0	4.43867
FBXO17	0.83254	0.610816	36.16594	2.219335
FBXO18	460.3944	467.2742	759.4848	505.1207
FBXO2	182.3262	134.3795	48.22126	138.9304
FBXO21	114.0579	83.68179	88.40564	84.33473
FBXO22	13.32063	72.07628	120.5531	75.45739
FBXO22-AS	0	0	0	0
FBXO24	4.995237	17.10285	12.05531	23.52495
FBXO25	183.9912	91.01158	44.20282	69.68712
FBXO27	0	1.832448	8.036876	3.107069
FBXO28	47.45476	103.8387	136.6269	122.5073
FBXO3	29.13889	43.97875	104.4794	46.60604
FBXO30	13.32063	19.54611	100.461	28.40749
FBXO31	239.7714	125.2173	164.756	121.1757
FBXO32	141.5317	123.9956	172.7928	147.3639
FBXO33	104.9	84.90342	787.6139	67.46779
FBXO34	149.8571	121.5524	64.29501	144.7006
FBXO36	13.32063	21.37856	24.11063	19.97402
FBXO38	145.6944	160.0338	341.5672	188.1996
FBXO39	0	0.610816	4.018438	3.107069
FBXO4	34.96666	127.0497	245.1247	53.26404
FBXO40	0	0	0	0.443867
FBXO41	202.3071	98.95218	8.036876	185.9803
FBXO42	129.0436	101.3954	136.6269	120.7318
FBXO43	4.162698	19.54611	0	9.321207
FBXO44	238.9389	187.5205	16.07375	154.9096
FBXO45	142.3643	71.46547	64.29501	76.78899
FBXO46	169.8381	100.1738	68.31345	121.1757
FBXO47	0	0	0	0
FBXO48	27.47381	6.10816	0	8.433473
FBXO5	30.80396	35.42733	8.036876	13.31601
FBXO6	25.80873	39.09222	4.018438	31.95843
FBXO7	591.1031	770.8497	24.11063	390.1591
FBXO8	29.97142	116.055	200.9219	83.00313
FBXO9	144.8619	290.1376	309.4197	436.7651
FBXW10	7.492856	3.664896	4.018438	2.219335
FBXW11	119.8857	177.1366	285.3091	180.21
FBXW12	0	0	0	0.443867
FBXW2	249.7619	233.9425	1952.961	296.0593

FBXW4	277.2357	272.4239	429.9729	187.7557
FBXW4P1	30.80396	14.65958	64.29501	11.98441
FBXW5	2127.139	1282.103	233.0694	977.3952
FBXW7	99.07221	110.5577	490.2494	122.5073
FBXW8	78.25872	40.92467	56.25813	65.24845
FBXW9	450.4039	141.7093	116.5347	103.8649
FCAMR	19.14841	5.497344	4.018438	7.989606
FCAR	0	0	0	0
FCER1A	0	0	0	0
FCER1G	94.07697	40.31385	936.2961	75.45739
FCER2	0	0	0	0
FCF1	74.09602	156.3689	361.6594	106.5281
FCGBP	21523.65	245.548	116.5347	387.4959
FCGR1A	0	0	0	0
FCGR1B	10.82301	9.162239	84.3872	23.52495
FCGR1C	0	0	0	0.443867
FCGR2A	0	0	4.018438	1.331601
FCGR2B	0	0	0	0
FCGR2C	0	0	0	0
FCGR3A	1.665079	0	0	0.443867
FCGR3B	0	0.610816	0	0.443867
FCGRT	969.0761	626.6972	783.5954	309.3753
FCHO1	318.8627	106.282	32.1475	114.9616
FCHO2	55.78015	48.25446	188.8666	70.13099
FCHSD1	363.8198	152.0932	64.29501	198.8524
FCHSD2	45.78968	89.17913	136.6269	88.32954
FCN1	0.83254	0	0	0
FCN2	0	0	4.018438	0
FCN3	2.497619	1.832448	0	0.443867
FCRL1	0	0	0	0.443867
FCRL2	2.497619	0	0	5.770271
FCRL3	1.665079	0.610816	4.018438	0.443867
FCRL4	0	0	0	0
FCRL5	1.665079	0	0	0
FCRL6	0	0	0	0.443867
FCRLA	0	0	0	0
FCRLB	4.162698	0.610816	24.11063	3.107069
FDCSP	0	0	0	0.443867
FDFT1	638.5579	2176.337	116.5347	777.2111
FDPS	1083.134	1885.589	116.5347	808.2818
FDPSL2A	0.83254	3.05408	0	3.107069
FDX1	183.1587	280.3645	28.12907	177.1029
FDX1L	283.0635	136.212	642.9501	125.6144
FDXACB1	14.98571	29.31917	48.22126	24.41269
FDXR	491.1984	80.62771	140.6453	79.89606
FECH	45.78968	81.84934	164.756	87.88567
FEM1A	164.8428	121.5524	28.12907	117.1809

FEM1B	21.64603	28.70835	128.59	39.50416
FEM1C	64.10555	64.74649	204.9403	72.79419
FEN1	486.2031	564.3939	156.7191	391.9346
FER	8.325396	22.60019	168.7744	25.74429
FER1L4	1614.294	1596.673	64.29501	1943.694
FER1L5	0	0.610816	24.11063	2.219335
FER1L6	47.45476	6.10816	28.12907	50.15697
FER1L6-AS	0.83254	0	0	0
FERD3L	0	0	0	0
FERMT1	128.2111	178.3583	8.036876	128.7214
FERMT2	6.660317	73.29791	241.1063	119.4002
FERMT3	205.6373	442.8416	1257.771	844.6789
FES	317.1976	104.4495	2041.367	213.0562
FETUB	0	7.940607	0	28.40749
FEV	1.665079	3.664896	28.12907	3.550936
FEZ1	9.990475	6.10816	269.2353	13.75988
FEZ2	83.25396	130.7146	261.1985	103.8649
FEZF1	8.325396	0.610816	36.16594	0
FEZF2	0	1.832448	12.05531	0.443867
FFAR1	0	0	0	0
FFAR2	5.827777	0	0	0.887734
FFAR3	0	0	0	0
FGA	0	19.54611	4.018438	2088.838
FGB	0	34.81651	4.018438	2839.417
FGD1	20.81349	17.10285	132.6085	34.62163
FGD2	71.5984	15.88121	317.4566	51.04471
FGD3	15.81825	3.664896	16.07375	12.87214
FGD4	99.07221	225.3911	64.29501	161.5676
FGD5	30.80396	7.940607	40.18438	6.658005
FGD5-AS1	244.7666	228.4452	20.09219	188.1996
FGD6	74.09602	86.73587	28.12907	113.63
FGF1	0.83254	0	8.036876	3.107069
FGF10	0	0	8.036876	2.219335
FGF11	19.14841	4.886528	28.12907	18.64241
FGF12	0	1.832448	12.05531	0
FGF13	4.995237	1.832448	64.29501	1.775468
FGF14	3.330158	0.610816	12.05531	3.994803
FGF14-IT1	0	0	0	0
FGF16	0	0	32.1475	0
FGF17	1.665079	0	16.07375	2.219335
FGF18	5.827777	6.10816	104.4794	8.433473
FGF19	0	504.534	4.018438	300.9418
FGF2	6.660317	18.32448	12.05531	27.07589
FGF20	0	0	24.11063	3.107069
FGF21	0.83254	0	0	1.331601
FGF22	1.665079	0	4.018438	0
FGF23	0.83254	0	12.05531	0

FGF3	0	0	0	0
FGF4	0	0	12.05531	0
FGF5	0.83254	0	8.036876	0
FGF6	0	0	4.018438	0
FGF7	3.330158	6.10816	68.31345	7.545739
FGF8	3.330158	0.610816	4.018438	0
FGF9	6.660317	7.940607	16.07375	17.75468
FGFBP1	14.98571	51.91936	0	50.15697
FGFBP2	0	0	0	1.775468
FGFBP3	7.492856	26.8759	32.1475	19.53015
FGFR1	77.42618	61.69241	980.4989	195.3015
FGFR1OP	110.7278	98.95218	56.25813	92.76821
FGFR1OP2	63.27301	136.8228	289.3275	126.946
FGFR2	142.3643	105.6712	36.16594	126.5021
FGFR3	866.6737	511.8638	100.461	1877.114
FGFR4	2764.031	1173.988	28.12907	689.3255
FGFRL1	202.3071	155.1473	20.09219	205.0666
FGG	0	21.37856	0	1911.735
FGGY	68.26825	107.5036	28.12907	52.37631
FGL1	0	8.551423	0	73.68193
FGL2	5.827777	10.99469	124.5716	35.95323
FGR	9.990475	11.6055	100.461	26.63202
FH	427.0928	403.1385	570.6182	251.2287
FHAD1	82.42142	6.10816	8.036876	14.20374
FHDC1	188.1539	97.11974	12.05531	132.7162
FHIT	187.3214	27.48672	12.05531	33.73389
FHL1	24.14365	25.65427	827.7982	83.447
FHL2	658.5388	451.393	168.7744	422.5614
FHL3	133.2063	45.8112	128.59	55.03951
FHL5	0	0	4.018438	0
FHOD1	404.6142	298.689	221.0141	433.2142
FHOD3	22.47857	7.329791	24.11063	16.86695
FIBCD1	3.330158	54.36262	8.036876	43.49897
FIBIN	3.330158	25.04345	44.20282	37.28483
FIBP	600.261	500.2583	2077.532	444.3109
FICD	0	4.886528	24.11063	20.41788
FIG4	175.6659	97.73055	164.756	75.01353
FIGF	0	0	0	0
FIGLA	0	0	0	0
FIGN	0	14.65958	44.20282	32.40229
FIGNL1	39.9619	46.42201	32.1475	49.71311
FIGNL2	4.162698	0.610816	28.12907	2.663202
FILIP1	0.83254	0.610816	52.23969	4.43867
FILIP1L	47.45476	42.1463	317.4566	142.9252
FIP1L1	173.1682	291.3592	353.6225	229.4792
FIS1	1441.126	2253.3	3861.719	1292.097
FITM1	9.990475	0.610816	172.7928	3.994803

FITM2	3.330158	3.05408	8.036876	11.54054
FIZ1	165.6754	169.8068	28.12907	120.7318
FJX1	40.79444	47.03283	56.25813	30.62682
FKBP10	30.80396	805.6662	341.5672	1051.521
FKBP11	596.9309	171.6393	257.18	180.6539
FKBP14	13.32063	17.71366	4.018438	22.19335
FKBP15	268.9103	153.9256	225.0325	208.6175
FKBP1A	1526.878	1170.934	803.6876	770.997
FKBP1A-SC	0	0	0	0
FKBP1AP1	3.330158	31.15161	80.36876	16.42308
FKBP1B	146.527	155.1473	349.6041	67.02392
FKBP2	1735.012	1673.636	1370.287	1273.898
FKBP3	308.0396	448.3389	815.7429	255.6674
FKBP4	1425.308	1128.788	876.0195	895.2798
FKBP5	32.46904	43.36793	64.29501	47.0499
FKBP6	0.83254	0	0	0
FKBP7	24.97619	93.45484	462.1204	81.67153
FKBP8	2132.134	1096.415	3644.723	919.2486
FKBP9	181.4936	249.2129	225.0325	230.367
FKBP9L	1.665079	7.940607	92.42408	22.19335
FKBPL	0	0	0	0
FKRP	65.77063	121.5524	32.1475	112.2984
FKSG29	0	0	0	0
FKTN	34.13412	34.81651	12.05531	50.60084
FLAD1	509.5142	494.7609	309.4197	516.6612
FLCN	71.5984	98.95218	245.1247	112.7422
FLG	0	1.832448	0	0
FLG2	0	0.610816	0	0
FLI1	8.325396	12.82714	160.7375	21.30562
FLI2	635.2277	850.8666	1177.402	914.3661
FLJ10038	17.48333	27.48672	0	27.51976
FLJ10661	44.95714	22.60019	4.018438	27.51976
FLJ11235	9.990475	15.2704	0	3.550936
FLJ12334	1.665079	1.221632	0	4.882537
FLJ12825	33.30158	1.832448	4.018438	2.219335
FLJ13197	1.665079	7.329791	4.018438	15.97921
FLJ13224	2.497619	1.221632	0	1.331601
FLJ14107	0	1.832448	0	0.443867
FLJ14186	12.48809	18.32448	0	39.0603
FLJ16171	0	0	0	0
FLJ16341	0	0.610816	0	0
FLJ16779	0	0	0	0.887734
FLJ20021	120.7182	102.0063	0	72.35032
FLJ20518	0	0	0	0
FLJ21408	0.83254	9.162239	0	4.43867
FLJ22184	13.32063	54.36262	0	67.02392
FLJ22447	3.330158	2.443264	0	1.775468

FLJ22763	0.83254	0.610816	0	0
FLJ23152	4.995237	118.4983	0	39.94803
FLJ23867	2207.895	649.2974	48.22126	788.7517
FLJ25328	1.665079	0	0	0
FLJ25363	0	0	0	0
FLJ25758	0	0	0	0
FLJ26245	0	0	0	0
FLJ26850	3.330158	0	0	0.887734
FLJ27352	9.990475	10.99469	0	18.19855
FLJ27354	0	0.610816	0	0.443867
FLJ30403	8.325396	6.10816	0	4.43867
FLJ30679	0.83254	0	0	0.887734
FLJ30838	0.83254	0.610816	0	1.331601
FLJ31306	305.542	173.4717	12.05531	181.5416
FLJ31485	0	0	0	0.443867
FLJ31662	0	0	0	0
FLJ31813	8.325396	0.610816	0	3.994803
FLJ32063	0	0	0	0
FLJ32224	14.15317	14.65958	0	10.20894
FLJ33065	0.83254	5.497344	0	3.550936
FLJ33360	0	0.610816	0	1.331601
FLJ33534	0.83254	0	0	0
FLJ33581	0	0	0	0
FLJ33630	42.45952	43.36793	0	28.85136
FLJ34208	16.65079	7.940607	0	7.989606
FLJ34503	0	1.221632	0	0.887734
FLJ34690	0	0	0	0
FLJ35024	0	1.221632	0	2.219335
FLJ35282	4.162698	2.443264	0	4.43867
FLJ35390	0.83254	5.497344	0	3.550936
FLJ35424	0	0	4.018438	0
FLJ35776	56.61269	83.07097	0	54.59564
FLJ35946	12.48809	1.832448	0	9.321207
FLJ36000	0	0	0	0
FLJ36777	0	1.832448	0	0.887734
FLJ37035	0.83254	1.221632	0	1.331601
FLJ37201	0	4.886528	0	4.43867
FLJ37453	70.76586	29.92998	0	30.62682
FLJ37505	0	0.610816	4.018438	0.887734
FLJ38109	2.497619	11.6055	4.018438	5.326404
FLJ38576	3.330158	2.443264	0	2.219335
FLJ39051	0	43.36793	0	37.7287
FLJ39080	2.497619	0	0	0
FLJ39534	2.497619	0	0	2.219335
FLJ39639	11.65555	5.497344	0	4.43867
FLJ39653	89.91427	78.79526	1840.445	90.105
FLJ39739	0	0	0	1.331601



FLJ40194	0	0.610816	0	0
FLJ40288	0	0	0	0
FLJ40292	0	3.05408	0	0
FLJ40434	0	0	4.018438	0
FLJ40852	4.162698	7.940607	0	9.765074
FLJ41200	0	0.610816	4.018438	0.443867
FLJ41278	0	0.610816	0	2.663202
FLJ41350	0	0	0	0
FLJ41484	35.7992	23.82182	0	48.3815
FLJ41649	0	0	0	0
FLJ41941	0.83254	0	0	0.443867
FLJ42102	0	0	0	0
FLJ42280	0	0	0	0
FLJ42289	8.325396	0	0	0.887734
FLJ42351	23.31111	6.10816	4.018438	2.219335
FLJ42393	0	0.610816	0	0.887734
FLJ42627	4.162698	1.221632	0	2.663202
FLJ42709	2.497619	82.46015	0	68.35552
FLJ42875	6.660317	1.221632	4.018438	0.443867
FLJ42969	0	0	0	3.994803
FLJ43315	0.83254	0	0	0
FLJ43390	0.83254	0	24.11063	2.219335
FLJ43663	19.14841	36.64896	16.07375	31.51456
FLJ43681	17.48333	15.88121	510.3416	19.97402
FLJ43826	0	0	0	0
FLJ43860	0	0	20.09219	0.443867
FLJ43879	0	0.610816	0	0
FLJ44054	0	0	0	0.887734
FLJ44511	2.497619	1.832448	0	1.775468
FLJ44635	183.1587	142.9309	5071.269	137.5988
FLJ45079	0	0.610816	20.09219	0
FLJ45340	216.4603	168.5852	0	268.0957
FLJ45445	6.660317	1.221632	0	1.775468
FLJ45513	9.990475	61.69241	0	47.49377
FLJ45974	0.83254	0	0	0
FLJ45983	5.827777	1.832448	0	0.443867
FLJ46066	0	0	0	0
FLJ46257	0	0	0	0.443867
FLJ46284	0	0	0	0
FLJ46300	0	0.610816	0	0
FLJ46361	0	0	0	0
FLJ46446	0	0	0	0
FLJ46906	37.46428	18.93529	0	15.09148
FLJ90757	74.92856	188.1313	20.09219	119.4002
FLNA	761.7737	6275.523	4203.286	3270.412
FLNB	2910.558	853.3099	212.9772	842.0157
FLNC	120.7182	18.93529	261.1985	106.0842

FLOT1	0.83254	0	0	0
FLOT2	2649.973	1764.647	377.7332	1177.579
FLRT1	4.995237	5.497344	4.018438	6.214138
FLRT2	4.995237	4.275712	100.461	10.65281
FLRT3	23.31111	129.493	16.07375	157.5728
FLT1	12.48809	10.38387	92.42408	10.20894
FLT3	0	1.221632	4.018438	2.663202
FLT3LG	93.24443	25.65427	28.12907	17.75468
FLT4	0	3.05408	20.09219	3.994803
FLVCR1	39.9619	80.01689	28.12907	60.36591
FLVCR1-AS	51.61745	51.91936	0	27.51976
FLVCR2	18.31587	14.04877	12.05531	16.86695
FLYWCH1	194.8143	166.7528	92.42408	200.6279
FLYWCH2	116.5555	39.70304	48.22126	62.14138
FMN1	69.10078	64.74649	172.7928	111.8545
FMN2	4.995237	0	24.11063	0.443867
FMNL1	48.2873	66.57894	365.6779	176.6591
FMNL2	81.58888	153.3148	104.4794	247.6778
FMNL3	30.80396	43.97875	277.2722	110.5229
FMO1	0.83254	2.443264	200.9219	7.989606
FMO2	0.83254	1.221632	20.09219	0
FMO3	0	0	4.018438	0.443867
FMO4	16.65079	28.70835	0	47.49377
FMO5	35.7992	124.6065	20.09219	51.93244
FMO6P	0	2.443264	0	0
FMO9P	0	0	0	0.443867
FMOD	11.65555	0.610816	44.20282	11.54054
FMR1	54.11507	76.35199	257.18	79.89606
FMR1-AS1	0	0	0	0
FMR1NB	0	0	0	0
FN1	371.3127	1097.636	2820.944	2637.902
FN3K	11.65555	68.41139	8.036876	54.15178
FN3KRP	155.6849	241.2723	16.07375	204.6227
FNBP1	12.48809	23.82182	56.25813	52.37631
FNBP1L	129.8762	277.9213	140.6453	315.5895
FNBP4	503.6864	151.4824	120.5531	292.5084
FNDC1	14.15317	65.96812	297.3644	137.1549
FNDC3A	55.78015	118.4983	369.6963	160.236
FNDC3B	173.1682	209.5099	277.2722	286.7381
FNDC4	263.915	230.8884	100.461	164.2308
FNDC5	1.665079	1.221632	48.22126	4.43867
FNDC7	0	0.610816	0	0.443867
FNDC8	13.32063	4.886528	0	3.994803
FNDC9	0	0.610816	8.036876	1.331601
FNIP1	22.47857	34.81651	196.9035	58.59045
FNIP2	24.14365	62.30323	36.16594	65.24845
FNTA	542.8158	304.1863	602.7657	237.4689

FNTB	0	3.05408	0	0.887734
FOLH1	0	0	12.05531	0
FOLH1B	0	0	0	0
FOLR1	160.6801	6.718975	156.7191	23.08108
FOLR2	0.83254	12.82714	241.1063	11.09668
FOLR3	3.330158	5.497344	237.0878	6.658005
FOLR4	0	7.329791	4.018438	3.994803
FONG	0	0	0	0
FOPNL	72.43094	83.07097	60.27657	84.7786
FOS	227.2833	430.0144	2692.353	254.3358
FOSB	11.65555	8.551423	68.31345	19.97402
FOSL1	92.41189	73.29791	0	89.66114
FOSL2	212.2976	150.2607	188.8666	219.7142
FOXA1	82.42142	199.126	32.1475	192.1944
FOXA2	74.92856	22.60019	32.1475	45.27444
FOXA3	953.2578	189.9638	8.036876	185.9803
FOXB1	0	0	20.09219	0
FOXB2	0	0	24.11063	0
FOXC1	64.93809	384.2032	112.5163	214.3878
FOXC2	0	0	28.12907	1.775468
FOXD1	74.92856	0	12.05531	0
FOXD2	68.26825	16.49203	44.20282	18.64241
FOXD3	0	0	36.16594	1.331601
FOXD4	10.82301	1.832448	0	9.321207
FOXD4L1	0	0.610816	0	2.219335
FOXD4L2	0	0	0	0
FOXD4L3	0	0	0	0
FOXD4L4	0	0	0	0
FOXD4L5	0	0.610816	0	0.443867
FOXD4L6	0	0	0	0
FOXE1	0	1.221632	36.16594	1.331601
FOXE3	22.47857	1.221632	0	0.887734
FOXF1	6.660317	0.610816	12.05531	1.331601
FOXF2	0	0.610816	44.20282	0.887734
FOXG1	0	0	92.42408	0
FOXH1	40.79444	4.886528	4.018438	5.770271
FOXI1	1.665079	62.30323	0	45.7183
FOXI2	1.665079	0	20.09219	0
FOXI3	0	0	0	0
FOXJ1	1915.674	12.21632	32.1475	115.4054
FOXJ2	160.6801	97.11974	148.6822	139.3742
FOXJ3	202.3071	155.1473	321.475	171.3327
FOXK1	253.9246	163.6987	40.18438	155.3535
FOXK2	377.973	328.0082	84.3872	308.0437
FOXL1	269.7428	225.3911	12.05531	146.0322
FOXL2	1.665079	0.610816	32.1475	0
FOXM1	626.9023	440.3983	12.05531	532.1966

FOXN1	0	0	16.07375	0
FOXN2	31.6365	16.49203	120.5531	23.96882
FOXN3	93.24443	40.92467	208.9588	49.71311
FOXN4	0.83254	0.610816	0	0.887734
FOXO1	79.9238	49.47609	160.7375	32.40229
FOXO3	39.9619	53.7518	8.036876	68.79939
FOXO3B	8.325396	4.275712	20.09219	3.107069
FOXO4	130.7087	58.02752	723.3188	78.56446
FOXP1	390.4611	149.0391	892.0932	130.4969
FOXP2	2.497619	13.43795	80.36876	11.54054
FOXP3	2.497619	0	0	0
FOXP4	406.2793	257.7643	168.7744	381.7256
FOXQ1	375.4753	251.6562	40.18438	317.3649
FOXR1	0.83254	0.610816	0	0.887734
FOXR2	0	0	0	0
FOXRED1	369.6476	203.4017	56.25813	229.9231
FOXRED2	28.30635	28.09753	4.018438	40.83577
FOXS1	4.995237	9.773055	16.07375	13.31601
FP588	12.48809	5.497344	0	15.53535
FPGS	1204.685	615.0917	128.59	448.7496
FPGT	21.64603	51.91936	4.018438	32.40229
FPGT-TNNI	0	0	0	0
FPR1	0.83254	0	0	0.887734
FPR2	0	1.221632	16.07375	1.775468
FPR3	2.497619	0	0	0
FRA10AC1	74.09602	50.69772	132.6085	23.96882
FRAS1	124.8809	151.4824	36.16594	158.4605
FRAT1	58.27777	18.93529	12.05531	11.09668
FRAT2	314.7	91.62239	116.5347	73.23806
FREM1	0.83254	3.05408	8.036876	10.20894
FREM2	4.162698	57.4167	28.12907	55.03951
FREM3	1.665079	0	0	0
FRG1	175.6659	126.4389	582.6735	80.33993
FRG1B	8.325396	20.15693	0	7.989606
FRG2	0	0	0	0
FRG2B	0	0	0	0
FRG2C	0	0	0	0
FRK	12.48809	37.25977	44.20282	28.40749
FRMD1	3.330158	1.832448	0	0.443867
FRMD3	4.162698	6.10816	40.18438	9.321207
FRMD4A	35.7992	194.2395	325.4935	172.2204
FRMD4B	59.11031	76.96281	233.0694	82.1154
FRMD5	9.157935	27.48672	16.07375	42.16737
FRMD6	8.325396	72.6871	116.5347	81.22766
FRMD6-AS	0.83254	4.275712	0	3.994803
FRMD7	0	0	12.05531	0.443867
FRMD8	278.9008	331.6731	40.18438	393.71

FRMD8P1	0	0.610816	52.23969	7.989606
FRMPD1	0	0.610816	24.11063	0.443867
FRMPD2	0	0	0	0
FRMPD2P1	0	0	0	0
FRMPD4	0	0	20.09219	0.887734
FRRS1	9.157935	30.5408	72.33188	27.51976
FRS2	21.64603	25.04345	40.18438	32.40229
FRS3	55.78015	39.70304	56.25813	33.29003
FRY	139.8666	76.96281	132.6085	92.76821
FRYL	183.9912	203.4017	180.8297	223.2651
FRZB	0	3.05408	16.07375	14.64761
FSBP	0	0	0	0
FSCB	0	0	0	0
FSCN1	80.75634	649.9082	409.8807	780.7621
FSCN2	50.78491	36.64896	4.018438	35.06549
FSCN3	1.665079	0.610816	4.018438	0.443867
FSD1	0	0	24.11063	0.443867
FSD1L	8.325396	7.940607	0	7.545739
FSD2	0	0	28.12907	1.331601
FSHB	0	0	0	0
FSHR	0	0	0	0
FSIP1	0	1.832448	4.018438	2.219335
FSIP2	4.162698	83.07097	4.018438	53.70791
FST	2.497619	22.60019	349.6041	51.93244
FSTL1	262.25	206.4558	606.7841	518.8805
FSTL3	50.78491	194.8503	0	189.0873
FSTL4	0.83254	0.610816	12.05531	0
FSTL5	0	0	0	0
FTCD	2.497619	3.05408	4.018438	4.882537
FTH1	3839.673	4988.534	22065.24	4155.927
FTH1P3	71.5984	21.98937	1800.26	30.18296
FTHL17	0	0	0	0
FTL	18741.3	13751.3	113609.3	10248.89
FTLP10	0	0	28.12907	0
FTMT	28.30635	7.329791	450.0651	10.20894
FTO	50.78491	55.58425	72.33188	76.78899
FTSJ1	372.9777	166.1419	52.23969	186.4241
FTSJ2	159.0151	254.0994	16.07375	215.7194
FTSJ3	349.6666	604.7078	405.8622	510.8909
FTSJD1	41.62698	83.07097	0	79.4522
FTSJD2	213.9627	356.1057	345.5857	393.71
FTX	5.827777	8.551423	0	3.107069
FUBP1	188.9865	314.5702	570.6182	347.104
FUBP3	92.41189	117.8875	116.5347	135.8233
FUCA1	372.1452	287.6943	2451.247	428.3317
FUCA2	744.2904	560.1182	140.6453	558.8286
FUK	415.4372	232.1101	100.461	261.4377

FUNDC1	123.2159	106.8928	104.4794	62.58525
FUNDC2	239.7714	501.4799	92.42408	267.6518
FUNDC2P2	0.83254	0.610816	32.1475	2.219335
FURIN	718.4817	241.2723	739.3926	333.788
FUS	2600.021	1180.707	2953.552	1553.535
FUT1	10.82301	6.718975	28.12907	37.28483
FUT10	2.497619	35.42733	4.018438	15.53535
FUT11	54.11507	54.36262	273.2538	55.03951
FUT2	517.8396	290.7484	28.12907	260.1061
FUT3	2261.177	921.1105	16.07375	803.3993
FUT4	251.427	249.8237	8.036876	253.4481
FUT5	0.83254	0.610816	0	0.887734
FUT6	219.7904	432.4577	0	393.2662
FUT7	1.665079	0	24.11063	1.331601
FUT8	39.9619	78.79526	200.9219	61.69752
FUT9	0	11.6055	4.018438	5.326404
FUZ	71.5984	282.8078	56.25813	165.5624
FXC1	364.6523	166.7528	1426.546	146.4761
FXN	54.94761	14.65958	36.16594	17.31081
FXR1	337.1785	448.3389	1936.887	299.6102
FXR2	228.1158	171.6393	1450.656	242.7953
FXYD1	24.97619	8.551423	699.2082	26.18815
FXYD2	4.995237	279.7537	0	99.87008
FXYD3	5607.154	6879.009	192.885	2097.272
FXYD4	0	3.05408	0	0.443867
FXYD5	2386.058	1591.786	249.1432	1155.83
FXYD6	5.827777	13.43795	0	19.53015
FXYD6-FXY	0	0	0	0
FXYD7	0	0.610816	20.09219	0.887734
FYB	19.14841	15.2704	502.3048	46.60604
FYCO1	66.60317	84.2926	16.07375	96.76301
FYN	89.91427	46.42201	1679.707	77.23286
FYTTD1	88.2492	86.12505	168.7744	81.67153
FZD1	49.95237	73.90873	128.59	217.051
FZD10	0.83254	1.221632	20.09219	0.887734
FZD2	34.13412	20.76774	325.4935	50.15697
FZD3	12.48809	7.329791	20.09219	6.214138
FZD4	57.44523	34.81651	216.9957	37.28483
FZD5	179.8285	323.7325	16.07375	169.5572
FZD6	80.75634	24.43264	12.05531	58.59045
FZD7	28.30635	12.21632	132.6085	34.17776
FZD8	86.58412	9.162239	48.22126	24.41269
FZD9	1.665079	0	28.12907	2.219335
FZR1	613.5817	266.3158	253.1616	249.8971
GOS2	25.80873	53.7518	16.07375	152.6903
G2E3	19.98095	29.31917	4.018438	21.74948
G3BP1	159.0151	286.4727	377.7332	220.158

G3BP2	141.5317	312.7378	622.8579	358.6446
G6PC	0	0	0	0
G6PC2	0.83254	1.221632	0	0
G6PC3	215.6278	503.9232	128.59	311.5946
G6PD	333.8484	1216.135	229.051	553.946
GAA	234.7762	234.5533	172.7928	289.4013
GAB1	37.46428	72.07628	88.40564	93.21207
GAB2	84.91904	64.13568	68.31345	82.55927
GAB3	0	3.05408	12.05531	0.443867
GAB4	0	0	0	0
GABARAP	1820.764	1465.347	11227.52	1265.465
GABARAPL	72.43094	165.5311	538.4707	290.289
GABARAPL	358.8246	423.9063	1153.292	276.973
GABARAPL	5.827777	1.221632	24.11063	0
GABBR1	0	0	0	0
GABBR2	0	1.832448	36.16594	0.887734
GABPA	37.46428	27.48672	32.1475	15.97921
GABPB1	27.47381	73.29791	80.36876	82.1154
GABPB2	29.97142	53.14099	8.036876	38.17256
GABRA1	2.497619	0	4.018438	0
GABRA2	0	0	4.018438	0
GABRA3	0	1.221632	44.20282	6.214138
GABRA4	0	0	4.018438	0
GABRA5	0	0.610816	8.036876	0
GABRA6	0	0	0	0
GABRB1	0.83254	0	4.018438	0
GABRB2	0	0	12.05531	0.443867
GABRB3	0	53.14099	12.05531	76.78899
GABRD	9.990475	0	0	0
GABRE	375.4753	705.4924	12.05531	1002.252
GABRG1	0	0	0	0
GABRG2	0	0	0	0
GABRG3	0.83254	0	0	0
GABRP	1989.77	969.3649	44.20282	1925.495
GABRQ	0	0	0	0
GABRR1	0	0	8.036876	0
GABRR2	0	0	24.11063	1.331601
GABRR3	0.83254	0	20.09219	0
GAD1	58.27777	30.5408	4.018438	66.13619
GAD2	0.83254	0	8.036876	0.443867
GADD45A	144.0293	149.6499	747.4295	118.5125
GADD45B	164.8428	83.07097	128.59	92.32434
GADD45G	322.1928	69.0222	1245.716	79.4522
GADD45GI	1255.47	604.097	56.25813	382.6134
GADL1	0	0	0	0
GAGE1	0	0	0	0
GAGE10	0	0	0	0

GAGE12B	0	0	0	0
GAGE12C	0	0	0	0
GAGE12D	0	0	0	0
GAGE12E	0	0	0	0
GAGE12F	0	0	0	0
GAGE12G	0	0	0	0
GAGE12H	0	0	0	0
GAGE12I	0	0	0	0
GAGE12J	0	0	0	0
GAGE13	0	0	0	0
GAGE2A	0	0	0	0
GAGE2B	0	0	0	0
GAGE2C	0	0	0	0
GAGE2D	0	0	0	0
GAGE2E	0	0	0	0
GAGE4	0	0	0	0
GAGE5	0	0	0	0
GAGE6	0	0	0	0
GAGE7	0	0	0	0
GAGE8	0	0	0	0
GAK	1764.151	865.5262	273.2538	1340.035
GAL	0	0	0	1.331601
GAL3ST1	204.8047	402.5277	20.09219	256.999
GAL3ST2	0	1.221632	12.05531	7.989606
GAL3ST3	0	0	16.07375	2.219335
GAL3ST4	4.995237	9.773055	40.18438	15.53535
GALC	234.7762	130.7146	24.11063	146.0322
GALE	1509.394	973.0298	188.8666	740.8141
GALK1	315.5325	304.7972	807.706	188.6435
GALK2	79.09126	185.688	482.2126	172.2204
GALM	597.7634	170.4177	20.09219	135.8233
GALNS	176.4984	186.9097	40.18438	185.5364
GALNT1	75.7611	224.7803	602.7657	264.5447
GALNT10	318.8627	440.3983	72.33188	361.7516
GALNT11	105.7325	205.845	48.22126	157.5728
GALNT12	485.3706	406.8034	60.27657	291.6206
GALNT13	0	0.610816	8.036876	0.887734
GALNT14	262.25	203.4017	8.036876	60.36591
GALNT2	552.8063	613.87	212.9772	891.285
GALNT3	94.90951	662.7353	4.018438	403.0313
GALNT4	3.330158	3.664896	0	7.101872
GALNT5	44.95714	65.96812	4.018438	113.63
GALNT6	888.3197	72.07628	24.11063	109.1913
GALNT7	109.0627	376.8734	164.756	284.0749
GALNT8	2.497619	0	0	0
GALNT9	0	4.886528	8.036876	12.42828
GALNTL1	0.83254	0	68.31345	7.101872



GALNTL2	0	0	80.36876	2.219335
GALNTL4	97.40713	15.2704	156.7191	27.51976
GALNTL5	0.83254	0	0	0.443867
GALNTL6	0	0.610816	4.018438	1.331601
GALP	0	1.221632	0	0
GALR1	0	0	4.018438	0
GALR2	6.660317	15.88121	20.09219	35.50936
GALR3	0	0.610816	8.036876	1.775468
GALT	260.5849	260.2076	723.3188	241.4637
GAMT	18.31587	15.88121	245.1247	40.3919
GAN	4.995237	18.93529	4.018438	14.64761
GANAB	1296.264	1905.135	321.475	2094.608
GANC	25.80873	59.85996	16.07375	101.6455
GAP43	4.995237	1.832448	8.036876	1.331601
GAPDH	27697.76	23311.79	8466.849	12206.79
GAPDHS	9.990475	8.551423	0	11.09668
GAPT	0	0	0	0
GAPVD1	113.2254	87.9575	208.9588	134.9356
GAR1	170.6706	125.2173	76.35032	98.98235
GARNL3	18.31587	16.49203	56.25813	24.85655
GARS	1518.552	620.589	1599.338	609.8733
GART	340.5087	246.1588	176.8113	233.4741
GAS1	1.665079	4.275712	200.9219	10.65281
GAS2	37.46428	3.664896	4.018438	3.550936
GAS2L1	225.6182	140.4877	558.5629	135.8233
GAS2L2	45.78968	0.610816	4.018438	3.107069
GAS2L3	0.83254	4.886528	4.018438	9.765074
GAS5	2237.866	1950.335	40.18438	709.2995
GAS6	1158.895	102.0063	1699.799	193.0822
GAS7	28.30635	11.6055	313.4382	28.40749
GAS8	197.3119	154.5364	148.6822	204.6227
GAST	0	0	0	1.775468
GATA1	0	0	0	1.331601
GATA2	4.995237	6.10816	60.27657	16.86695
GATA3	12.48809	7.940607	116.5347	19.08628
GATA4	98.23967	1.832448	32.1475	0
GATA5	4.995237	0	0	0
GATA6	139.8666	180.1907	28.12907	106.972
GATAD1	91.57935	245.548	305.4013	226.816
GATAD2A	472.0499	278.5321	128.59	284.0749
GATAD2B	149.0246	105.0603	261.1985	171.7765
GATC	187.3214	126.4389	24.11063	132.2724
GATM	223.9531	496.5934	502.3048	936.1155
GATS	73.26348	463.6093	4.018438	622.7454
GATSL1	0	0	0	0
GATSL2	0	0	0	0
GATSL3	35.7992	62.91404	92.42408	43.0551

GBA	183.9912	420.2414	357.641	400.8119
GBA2	583.6102	787.3418	233.0694	894.8359
GBA3	0.83254	25.04345	8.036876	31.07069
GBAP1	64.10555	29.31917	0	34.17776
GBAS	63.27301	185.0772	132.6085	162.8992
GBE1	64.10555	108.1144	48.22126	77.67673
GBF1	437.0833	265.0941	446.0466	390.603
GBGT1	0	0.610816	4.018438	0.887734
GBP1	64.10555	83.07097	16.07375	68.79939
GBP1P1	0.83254	0	0	0
GBP2	422.9301	378.0951	44.20282	283.631
GBP3	80.75634	224.7803	24.11063	159.3483
GBP4	82.42142	17.10285	48.22126	27.51976
GBP5	8.325396	1.832448	48.22126	3.994803
GBP6	30.80396	5.497344	172.7928	8.87734
GBP7	1.665079	1.221632	20.09219	3.994803
GBX1	0	0.610816	12.05531	0.443867
GBX2	1.665079	1.832448	16.07375	3.107069
GC	0	541.1829	0	1807.87
GCA	56.61269	187.5205	20.09219	186.868
GCAT	101.5698	381.76	92.42408	138.9304
GCC1	93.24443	182.634	80.36876	161.1237
GCC2	39.9619	128.8822	12.05531	154.4657
GCDH	151.5222	144.7634	80.36876	113.1861
GCET2	55.78015	3.05408	0	10.65281
GCFC1	149.0246	106.8928	381.7516	86.55407
GCFC1-AS1	0.83254	5.497344	0	8.87734
GCFC2	49.11984	39.70304	0	31.51456
GCG	0	0	4.018438	0
GCGR	256.4222	0.610816	0	2.663202
GCH1	65.77063	18.93529	84.3872	18.19855
GCHFR	195.6468	324.9541	48.22126	226.3722
GCK	4.995237	0	12.05531	0
GCKR	417.9349	109.3361	0	85.22247
GCLC	86.58412	154.5364	112.5163	155.3535
GCLM	32.46904	109.3361	116.5347	64.36072
GCM1	0	2.443264	4.018438	0
GCM2	0	0	0	0
GCN1L1	999.88	503.9232	506.3232	646.2704
GCNT1	18.31587	1.221632	52.23969	21.30562
GCNT2	60.77539	132.5471	16.07375	122.0634
GCNT3	2016.411	417.7981	36.16594	231.2547
GCNT4	0	0.610816	0	0.887734
GCNT7	0.83254	1.221632	0	0.443867
GCOM1	0	0	0	0
GCSH	9.990475	31.76243	0	15.53535
GDA	388.796	337.7812	108.4978	415.4595

GDAP1	4.995237	32.37325	0	23.96882
GDAP1L1	0	3.664896	28.12907	0.887734
GDAP2	27.47381	55.58425	128.59	65.24845
GDE1	336.346	510.0313	305.4013	544.181
GDEP	0	0	0	0
GDF1	0	0	0	0
GDF10	7.492856	4.886528	44.20282	14.20374
GDF11	29.13889	5.497344	76.35032	16.86695
GDF15	1256.302	21.98937	12.05531	98.09461
GDF2	0	0	4.018438	0
GDF3	1.665079	2.443264	32.1475	3.107069
GDF5	0.83254	4.275712	4.018438	4.882537
GDF6	3.330158	1.832448	36.16594	4.43867
GDF7	0	0	8.036876	0
GDF9	1.665079	0.610816	8.036876	1.331601
GDI1	1029.851	1504.44	932.2776	947.6561
GDI2	1502.734	1587.511	2117.717	1142.958
GDNF	0.83254	0.610816	52.23969	0.887734
GDPD1	1.665079	28.70835	28.12907	19.97402
GDPD2	16.65079	8.551423	8.036876	3.550936
GDPD3	406.2793	58.02752	1466.73	92.76821
GDPD4	0	0	0	1.775468
GDPD5	49.95237	20.76774	100.461	42.61123
GEM	4.995237	45.8112	168.7744	34.62163
GEMIN2	10.82301	55.58425	76.35032	33.29003
GEMIN4	100.7373	155.7581	24.11063	114.5177
GEMIN5	32.46904	84.90342	32.1475	72.79419
GEMIN6	152.3547	175.915	24.11063	86.1102
GEMIN7	237.2738	297.4674	176.8113	164.6747
GEMIN8	260.5849	93.45484	4.018438	62.58525
GEMIN8P4	20.81349	11.6055	0	11.98441
GEN1	98.23967	58.63833	4.018438	78.56446
GET4	1147.24	880.7966	638.9316	858.8827
GFAP	1.665079	3.05408	0	1.331601
GFER	273.073	234.5533	104.4794	184.6487
GFI1	6.660317	3.05408	28.12907	2.663202
GFI1B	1.665079	0	0	0.443867
GFM1	178.1635	156.9797	172.7928	125.1705
GFM2	61.60793	71.46547	64.29501	64.80458
GFOD1	16.65079	18.32448	20.09219	20.86175
GFOD2	288.8912	202.7909	64.29501	150.9148
GFPT1	369.6476	533.2423	84.3872	578.3587
GFPT2	7.492856	26.26509	566.5998	37.7287
GFRA1	0.83254	3.05408	36.16594	0.887734
GFRA2	1.665079	0.610816	72.33188	1.775468
GFRA3	0.83254	1.221632	0	0
GFRA4	0	0	4.018438	0.887734

GFRAL	0	0	4.018438	0.443867
GGA1	1027.354	728.7034	715.282	671.1269
GGA2	396.2888	287.6943	413.8991	379.5063
GGA3	592.7682	341.4461	124.5716	407.0261
GGCT	398.7865	476.4364	16.07375	351.5427
GGCX	133.2063	296.2457	124.5716	309.3753
GGH	142.3643	174.0825	80.36876	152.2464
GGN	14.98571	0	16.07375	3.550936
GGNBP1	0	0	0	0
GGNBP2	362.9873	483.1554	1527.006	424.3369
GGPS1	149.8571	295.6349	88.40564	190.419
GGT1	8.325396	914.3915	4.018438	531.3088
GGT3P	0	0.610816	0	2.663202
GGT5	2.497619	26.26509	208.9588	79.89606
GGT6	392.1261	395.8087	0	306.2682
GGT7	169.8381	364.0463	52.23969	341.7776
GGT8P	0	1.221632	0	3.107069
GGTA1P	0	0	0	0.443867
GGTLC1	0	3.664896	0	2.663202
GGTLC2	0	0.610816	0	0
GH1	0	0.610816	0	0.443867
GH2	0	0	0	0
GHDC	150.6897	301.7431	32.1475	268.0957
GHITM	773.4293	516.1395	646.9685	379.0624
GHR	1.665079	3.05408	164.756	6.214138
GHRH	0	0	0	0
GHRHR	9.990475	3.664896	4.018438	0.887734
GHRL	3.330158	1.832448	0	0.443867
GHRLOS	8.325396	0.610816	0	3.107069
GHRLOS2	20.81349	1.221632	0	0.887734
GHSR	0	0	12.05531	0.887734
GIF	1.665079	0.610816	0	0
GIGYF1	726.8071	1433.585	233.0694	2495.42
GIGYF2	175.6659	332.8947	377.7332	348.4356
GIMAP1	0	0	16.07375	0.887734
GIMAP1-G	0	0	0	0
GIMAP2	9.990475	26.8759	4.018438	40.3919
GIMAP4	0.83254	1.221632	44.20282	3.550936
GIMAP5	0	0	0	0
GIMAP6	0	0	44.20282	1.775468
GIMAP7	0	1.221632	4.018438	0.887734
GIMAP8	0.83254	0	0	0.887734
GIN1	23.31111	26.8759	20.09219	19.53015
GINs1	97.40713	125.2173	44.20282	93.65594
GINs2	107.3976	160.6446	44.20282	65.69232
GINs3	52.44999	31.15161	4.018438	45.7183
GINs4	135.704	56.19507	301.3829	75.01353

GIP	0	0	4.018438	0.443867
GIPC1	3290.196	1451.299	723.3188	1281.888
GIPC2	63.27301	42.75712	4.018438	12.87214
GIPC3	0	0	0	0.443867
GIPR	43.29206	10.99469	4.018438	38.61643
GIT1	411.2746	401.3061	546.5076	371.5167
GIT2	157.35	92.84402	221.0141	112.7422
GJA1	30.80396	40.92467	498.2863	220.6019
GJA10	0	0	4.018438	0
GJA3	0	0	4.018438	0
GJA4	4.162698	7.940607	156.7191	26.63202
GJA5	0	1.221632	28.12907	10.20894
GJA8	1.665079	0	0	0
GJA9	0	0	0	0
GJA9-MYCI	0	1.221632	0	0.887734
GJB1	967.411	3206.784	72.33188	1022.226
GJB2	238.1063	20.15693	8.036876	49.26924
GJB3	318.8627	475.2148	36.16594	320.9159
GJB4	16.65079	130.1038	16.07375	44.3867
GJB5	0.83254	221.7262	4.018438	109.6352
GJB6	3.330158	0.610816	8.036876	0
GJB7	4.995237	0	0	0.443867
GJC1	13.32063	17.10285	108.4978	31.95843
GJC2	97.40713	95.28729	16.07375	40.3919
GJC3	4.162698	4.275712	0	9.765074
GJD2	0	0	0	0
GJD3	14.15317	51.91936	8.036876	50.60084
GJD4	0	1.221632	0	0
GK	6.660317	18.32448	4.018438	15.97921
GK2	0	1.832448	12.05531	0.443867
GK3P	0	0	0	0
GK5	159.0151	116.6658	20.09219	116.737
GKAP1	8.325396	10.38387	176.8113	13.75988
GKN1	0.83254	0	0	0
GKN2	0	0	0	0
GLA	318.0301	255.3211	84.3872	149.5832
GLB1	357.992	331.6731	56.25813	355.0936
GLB1L	33.30158	64.13568	64.29501	73.68193
GLB1L2	615.2467	43.97875	8.036876	12.87214
GLB1L3	0	0	0	0
GLCCI1	2.497619	20.15693	80.36876	36.3971
GLCE	34.96666	70.24383	32.1475	94.54367
GLDC	0	2.443264	28.12907	7.545739
GLDN	9.157935	1.221632	0	5.326404
GLE1	223.9531	80.01689	281.2907	77.67673
GLG1	916.6261	1001.127	381.7516	949.8754
GLI1	14.15317	18.93529	20.09219	36.3971

GLI2	6.660317	1.832448	40.18438	7.545739
GLI3	0	1.832448	24.11063	2.663202
GLI4	452.069	155.7581	4.018438	158.4605
GLIPR1	4.995237	24.43264	8.036876	62.58525
GLIPR1L1	0.83254	1.832448	0	1.775468
GLIPR1L2	0	0	0	0.887734
GLIPR2	12.48809	6.718975	84.3872	23.52495
GLIS1	0.83254	0.610816	4.018438	1.331601
GLIS2	39.12936	51.91936	64.29501	118.5125
GLIS3	36.63174	155.1473	52.23969	106.0842
GLIS3-AS1	1.665079	0	0	1.775468
GLMN	38.29682	39.09222	176.8113	27.07589
GLO1	230.6135	376.2626	32.1475	202.8472
GLOD4	231.446	355.4949	594.7288	292.5084
GLOD5	26.64127	5.497344	0	5.770271
GLP1R	0	1.221632	12.05531	0.887734
GLP2R	0	0	0	0.443867
GLRA1	0	0	4.018438	0
GLRA2	0	0	4.018438	0
GLRA3	0	0	0	1.331601
GLRA4	0	0	12.05531	0
GLRB	0	92.23321	4.018438	42.16737
GLRX	217.2928	218.0613	32.1475	313.814
GLRX2	45.78968	76.35199	92.42408	50.15697
GLRX3	352.9968	379.3167	1024.702	225.4844
GLRX5	509.5142	430.6252	695.1898	343.1092
GLS	87.41666	202.1801	257.18	213.0562
GLS2	18.31587	3.05408	24.11063	10.65281
GLT1D1	0	0	0	0
GLT25D1	2122.143	667.011	450.0651	936.1155
GLT25D2	7.492856	0.610816	4.018438	3.107069
GLT6D1	0	0	0	0
GLT8D1	280.5658	260.2076	249.1432	252.1165
GLT8D2	4.162698	0	16.07375	0.443867
GLTP	220.623	91.62239	1072.923	158.0167
GLTPD1	412.1071	292.5808	8.036876	269.4273
GLTPD2	22.47857	80.62771	8.036876	108.3036
GLTSCR1	191.4841	135.6011	124.5716	126.5021
GLTSCR2	2515.935	4144.386	1137.218	949.4316
GLUD1	427.0928	317.0135	803.6876	217.4948
GLUD2	3.330158	10.38387	160.7375	21.74948
GLUL	435.4182	107.5036	1153.292	519.3244
GLYAT	0	0	8.036876	0
GLYATL1	3.330158	0.610816	0	8.87734
GLYATL2	0	0	0	1.331601
GLYATL3	0	0	0	0
GLYCAM1	0	0.610816	0	0

GLYCTK	382.1357	133.1579	20.09219	94.54367
GLYR1	367.9825	359.7706	498.2863	534.4159
GM140	0	0	0	0
GM2A	186.4889	134.3795	0	147.3639
GMCL1	2.497619	16.49203	28.12907	30.62682
GMCL1P1	2.497619	1.221632	24.11063	2.663202
GMDS	1234.656	301.1323	510.3416	149.1393
GMEB1	55.78015	36.03814	124.5716	31.95843
GMEB2	352.9968	145.3742	32.1475	130.4969
GMFB	84.91904	102.6171	345.5857	79.89606
GMFG	70.76586	18.93529	839.8536	23.96882
GMIP	269.7428	105.0603	152.7006	179.7661
GML	0	0	0	0
GMNC	0	0	0	0
GMNN	100.7373	236.9966	56.25813	121.1757
GMPPA	785.0848	732.3683	863.9642	771.8847
GMPPB	480.3753	323.7325	353.6225	281.8556
GMPR	39.9619	7.329791	100.461	10.20894
GMPR2	315.5325	427.5712	446.0466	336.4512
GMPS	333.0158	190.5746	253.1616	132.2724
GNA11	24.14365	12.21632	116.5347	55.03951
GNA12	128.2111	257.7643	200.9219	262.3254
GNA13	49.11984	125.2173	269.2353	92.32434
GNA14	1.665079	10.38387	20.09219	32.84616
GNA15	354.6619	40.92467	64.29501	110.5229
GNAI1	14.98571	268.759	32.1475	200.184
GNAI2	1382.848	1015.176	8643.66	1220.19
GNAI3	238.9389	421.463	245.1247	278.3046
GNAL	2.497619	4.886528	100.461	9.765074
GNAO1	1.665079	3.05408	36.16594	1.331601
GNAQ	7.492856	15.88121	32.1475	31.51456
GNAS	3938.745	5487.571	22346.53	5938.941
GNAS-AS1	0	1.832448	0	1.775468
GNAT1	0	0	4.018438	0.443867
GNAT2	2.497619	0	12.05531	1.775468
GNAT3	0	0	4.018438	0
GNAZ	213.9627	60.47078	8.036876	18.64241
GNB1	1651.759	1810.458	5963.362	1633.431
GNB1L	122.3833	134.9903	16.07375	75.90126
GNB2	3249.402	5132.686	10283.18	3198.95
GNB2L1	11715.5	8605.175	37459.88	4038.302
GNB3	29.13889	14.04877	92.42408	15.53535
GNB4	49.11984	39.70304	932.2776	48.3815
GNB5	84.91904	145.3742	84.3872	179.7661
GNE	69.93332	263.2617	337.5488	285.8504
GNG10	3.330158	18.93529	4.018438	8.433473
GNG11	53.28253	99.563	924.2408	93.21207

GNG12	273.9055	346.9435	486.231	287.6258
GNG13	0	0	8.036876	0
GNG2	46.62222	23.82182	843.872	31.51456
GNG3	1.665079	0	8.036876	3.994803
GNG4	1.665079	0	12.05531	1.775468
GNG5	511.1793	536.9072	1173.384	396.8171
GNG7	8.325396	0	12.05531	0.887734
GNG8	5.827777	4.886528	60.27657	4.43867
GNGT1	1.665079	0	0	0.887734
GNGT2	76.59364	43.97875	2684.317	48.3815
GNL1	0	0	0	0
GNL2	561.1317	480.7122	216.9957	379.9502
GNL3	757.611	429.4036	192.885	437.6529
GNL3L	69.93332	56.80588	12.05531	90.54887
GNLY	2.497619	0.610816	0	0.443867
GNMT	8.325396	1.221632	16.07375	3.994803
GNN	7.492856	2.443264	0	3.107069
GNPAT	367.15	578.4427	108.4978	320.0281
GNPDA1	180.6611	190.5746	100.461	159.3483
GNPDA2	6.660317	28.70835	88.40564	31.07069
GNPNAT1	301.3793	104.4495	108.4978	105.1965
GNPTAB	94.90951	65.96812	92.42408	71.90646
GNPTG	400.4515	576.6103	144.6638	513.1103
GNRH1	27.47381	21.37856	4.018438	23.96882
GNRH2	0.83254	0.610816	0	0.887734
GNRHR	0	0	0	0.887734
GNRHR2	6.660317	2.443264	0	7.545739
GNS	266.4127	265.7049	478.1941	415.0157
GOLGA1	114.8905	98.34137	24.11063	156.2412
GOLGA2	421.265	279.7537	88.40564	452.7444
GOLGA2P2	0	0	0	0
GOLGA2P3	0	0	0	0
GOLGA2P5	187.3214	51.30854	0	74.12579
GOLGA3	943.2673	361.603	112.5163	510.0032
GOLGA4	203.1397	259.5968	237.0878	248.5655
GOLGA5	143.1968	296.8566	325.4935	265.8763
GOLGA6A	0	0	0	0
GOLGA6B	0	0	0	0
GOLGA6C	0	0	4.018438	0
GOLGA6D	0.83254	0	0	0
GOLGA6L1	0	0	0	0
GOLGA6L1	0.83254	0	0	0.443867
GOLGA6L5	0.83254	4.886528	0	8.87734
GOLGA6L6	0	0	0	0
GOLGA6L9	0	0	0	0
GOLGA7	190.6516	125.8281	361.6594	138.0426
GOLGA7B	57.44523	64.13568	16.07375	44.3867



GOLGA8A	152.3547	52.53017	4.018438	133.1601
GOLGA8B	50.78491	108.1144	0	189.5312
GOLGA8C	0	0	0	0
GOLGA8DF	0	0	0	0
GOLGA8E	0	0	0	1.331601
GOLGA8F	0	0	0	0
GOLGA8G	0	0	0	0
GOLGA8IP	0	0.610816	0	0.887734
GOLGB1	1476.925	602.8753	156.7191	835.8016
GOLIM4	35.7992	89.17913	60.27657	62.58525
GOLM1	2609.179	2548.324	56.25813	2317.43
GOLPH3	154.0198	443.4524	417.9176	474.4938
GOLPH3L	110.7278	206.4558	68.31345	191.3067
GOLT1A	109.8952	75.13036	8.036876	44.3867
GOLT1B	69.93332	174.6934	8.036876	154.4657
GON4L	139.8666	155.7581	249.1432	245.0146
GOPC	69.10078	53.14099	52.23969	93.21207
GORAB	48.2873	42.1463	24.11063	75.01353
GORASP1	465.3896	219.2829	84.3872	252.1165
GORASP2	440.4134	681.6706	671.0792	703.0854
GOSR1	165.6754	152.0932	56.25813	177.9907
GOSR2	118.2206	370.7653	249.1432	280.0801
GOT1	643.5531	217.4505	305.4013	280.0801
GOT1L1	0	0	4.018438	0
GOT2	666.8642	381.1492	124.5716	369.2974
GP1BA	2.497619	1.832448	20.09219	6.658005
GP1BB	0	0	0	0
GP2	9.990475	0	0	0
GP5	0.83254	0	0	0.443867
GP6	2.497619	5.497344	4.018438	3.994803
GP9	0	0	4.018438	0
GPA33	117.3881	7.940607	0	2.219335
GPAA1	2426.853	1561.246	466.1388	1387.972
GPAM	29.97142	28.09753	32.1475	30.62682
GPANK1	0	0	0	0
GPAT2	16.65079	1.832448	0	4.882537
GPATCH1	69.93332	108.7252	48.22126	70.13099
GPATCH2	50.78491	45.20038	36.16594	54.15178
GPATCH3	129.8762	114.8334	116.5347	102.5333
GPATCH4	466.2222	512.4746	84.3872	318.6965
GPATCH8	64.93809	160.6446	156.7191	258.7745
GPBAR1	78.25872	1.221632	0	11.09668
GPBP1	316.365	404.971	1623.449	360.42
GPBP1L1	507.0166	453.2254	582.6735	498.9065
GPC1	293.0539	393.3655	104.4794	253.0042
GPC2	7.492856	7.940607	4.018438	26.18815
GPC3	41.62698	63.52486	2234.252	175.7713

GPC4	89.91427	457.5011	196.9035	197.077
GPC5	8.325396	0	0	0.887734
GPC6	7.492856	7.940607	172.7928	15.53535
GPCPD1	41.62698	260.8184	156.7191	334.6757
GPCRLTM7	0	0	0	0
GPD1	1010.703	237.6074	80.36876	94.98754
GPD1L	265.5801	109.3361	16.07375	94.98754
GPD2	105.7325	268.1482	92.42408	214.3878
GPER	11.65555	14.04877	0	27.51976
GPHA2	3.330158	10.38387	0	17.31081
GPHB5	0	0	0	0
GPHN	33.30158	49.47609	124.5716	39.0603
GPI	3236.914	2362.025	4167.12	1637.869
GPIHBP1	0	1.832448	92.42408	1.331601
GPKOW	124.8809	159.423	32.1475	94.09981
GPLD1	1.665079	3.05408	12.05531	6.658005
GPM6A	0	0.610816	52.23969	1.775468
GPM6B	20.81349	7.329791	707.2451	29.73909
GPN1	280.5658	357.9381	196.9035	208.6175
GPN2	97.40713	176.5258	265.2169	138.9304
GPN3	27.47381	61.0816	96.44251	38.17256
GPNMB	41.62698	14.65958	586.692	26.18815
GPR1	0	0.610816	12.05531	0
GPR101	0	0	0	0
GPR107	473.715	358.549	92.42408	417.235
GPR108	635.2277	364.0463	385.7701	362.1955
GPR110	321.3603	1002.349	4.018438	815.3837
GPR111	0	0	4.018438	4.43867
GPR112	0	0	0	0.443867
GPR113	2.497619	1.832448	4.018438	7.545739
GPR114	0	5.497344	16.07375	17.31081
GPR115	23.31111	147.8175	8.036876	194.4138
GPR116	6.660317	24.43264	12.05531	55.03951
GPR119	0	0	0	0
GPR12	0.83254	0	4.018438	0
GPR123	0.83254	1.221632	8.036876	0.443867
GPR124	12.48809	12.21632	84.3872	21.74948
GPR125	304.7095	420.2414	56.25813	458.9585
GPR126	93.24443	141.0985	16.07375	75.45739
GPR128	198.977	6.10816	0	3.994803
GPR132	40.79444	10.38387	0	36.84096
GPR133	0	1.832448	8.036876	5.770271
GPR135	0.83254	3.05408	8.036876	3.994803
GPR137	232.2785	180.1907	522.3969	266.7641
GPR137B	86.58412	39.70304	1177.402	79.4522
GPR137C	0	1.221632	0	4.43867
GPR139	2.497619	0	0	0

GPR141	0	0	0	0
GPR142	0	0	0	0
GPR143	35.7992	2.443264	4.018438	9.321207
GPR144	0	0	0	0
GPR146	4.162698	9.162239	20.09219	11.54054
GPR148	0	0	0	0
GPR149	0	0	0	0
GPR15	0	0	8.036876	0
GPR150	0.83254	0	4.018438	0.443867
GPR151	0	1.832448	0	0
GPR152	0	3.05408	0	2.219335
GPR153	328.0206	41.53548	88.40564	54.59564
GPR155	1.665079	6.718975	20.09219	6.658005
GPR156	0	1.221632	4.018438	4.882537
GPR157	1.665079	0	0	6.214138
GPR158	0	0.610816	8.036876	0.443867
GPR160	95.74205	47.64364	4.018438	39.50416
GPR161	5.827777	3.664896	16.07375	13.31601
GPR162	11.65555	6.10816	88.40564	12.42828
GPR17	1.665079	0.610816	0	1.775468
GPR171	0	0	0	0.443867
GPR172A	2017.243	1215.524	20.09219	1016.012
GPR172B	0.83254	1.221632	60.27657	6.658005
GPR173	0.83254	0.610816	40.18438	8.87734
GPR174	0	0	0	0
GPR176	4.162698	1.221632	8.036876	3.994803
GPR179	0	0	24.11063	1.331601
GPR18	2.497619	2.443264	20.09219	1.775468
GPR180	27.47381	27.48672	32.1475	30.18296
GPR182	0.83254	0.610816	12.05531	1.331601
GPR183	5.827777	1.221632	16.07375	2.663202
GPR19	4.162698	20.76774	48.22126	17.31081
GPR20	0.83254	0.610816	16.07375	1.775468
GPR21	0	0	0	0.887734
GPR22	0	0.610816	8.036876	0
GPR25	0	0.610816	4.018438	0.443867
GPR26	0.83254	0	0	0
GPR27	0	0.610816	36.16594	1.331601
GPR3	4.162698	9.162239	20.09219	11.54054
GPR31	0	0	0	0.443867
GPR32	0	0	0	0
GPR33	0	0	0	0
GPR34	1.665079	1.221632	8.036876	2.219335
GPR35	978.234	357.9381	16.07375	250.7849
GPR37	9.157935	13.43795	0	59.03431
GPR37L1	9.157935	3.05408	32.1475	5.770271
GPR39	47.45476	55.58425	4.018438	43.94283

GPR4	9.157935	7.329791	180.8297	13.31601
GPR45	0	0	0	0
GPR50	0	0	12.05531	0
GPR52	0	1.832448	8.036876	0
GPR55	1.665079	0.610816	0	0.887734
GPR56	901.6404	952.8729	120.5531	996.9253
GPR6	0	0	16.07375	0
GPR61	0.83254	0	8.036876	0.443867
GPR62	0	0	0	0
GPR63	0	0.610816	8.036876	0.887734
GPR64	1.665079	3.05408	20.09219	3.107069
GPR65	6.660317	0.610816	20.09219	1.775468
GPR68	42.45952	12.21632	32.1475	16.86695
GPR75	9.157935	1.221632	4.018438	7.545739
GPR75-ASE	0	0	0	0
GPR77	0	0	0	0.887734
GPR78	17.48333	3.664896	0	28.40749
GPR82	0.83254	0	0	0
GPR83	2.497619	1.832448	16.07375	2.219335
GPR84	1.665079	1.221632	4.018438	3.550936
GPR85	11.65555	2.443264	92.42408	2.219335
GPR87	0.83254	4.886528	4.018438	18.19855
GPR88	2.497619	0.610816	16.07375	1.331601
GPR89A	32.46904	43.36793	0	28.40749
GPR89B	0.83254	1.221632	0	1.775468
GPR89C	0	0	0	0
GPR97	0	0	0	4.882537
GPR98	4.995237	6.10816	24.11063	19.53015
GPRASP1	8.325396	15.88121	48.22126	35.50936
GPRASP2	0	0.610816	0	0.443867
GPRC5A	605.2563	3215.335	68.31345	1825.625
GPRC5B	177.3309	398.8628	92.42408	372.8483
GPRC5C	673.5245	204.0125	44.20282	364.4148
GPRC5D	14.15317	9.773055	0	12.87214
GPRC6A	0	0	0	0
GPRIN1	81.58888	32.37325	0	45.27444
GPRIN2	123.2159	125.8281	4.018438	106.0842
GPRIN3	17.48333	3.05408	4.018438	4.43867
GPS1	1274.618	967.5325	835.8351	769.2215
GPS2	333.0158	318.8459	747.4295	353.762
GPSM1	10.82301	14.04877	64.29501	45.27444
GPSM2	64.93809	100.7846	56.25813	58.14658
GPSM3	0	0	0	0
GPT	2050.545	183.8556	64.29501	185.9803
GPT2	577.7825	137.4336	12.05531	179.7661
GPX1	3440.886	2751.115	11605.25	2412.861
GPX2	5793.643	1570.408	68.31345	873.9742

GPX3	339.6761	307.8512	18022.69	763.8951
GPX4	2518.432	1321.806	6377.261	1167.814
GPX5	0	0	0	0
GPX6	0.83254	9.162239	486.231	16.42308
GPX7	12.48809	100.7846	349.6041	80.33993
GPX8	57.44523	70.85465	225.0325	172.2204
GRAMD1A	447.9063	309.6837	896.1117	390.603
GRAMD1B	103.2349	233.3317	237.0878	240.1321
GRAMD1C	60.77539	49.47609	4.018438	46.16217
GRAMD2	11.65555	13.43795	0	101.6455
GRAMD3	84.0865	39.70304	116.5347	50.15697
GRAMD4	177.3309	321.2892	32.1475	186.868
GRAP	2.497619	1.832448	16.07375	6.658005
GRAP2	0	0	4.018438	0.443867
GRAPL	0	0	0	0
GRASP	78.25872	7.940607	168.7744	28.85136
GRB10	467.0547	599.2105	586.692	480.708
GRB14	44.1246	107.5036	20.09219	121.6196
GRB2	845.0277	736.644	1205.531	633.3982
GRB7	671.0269	935.77	36.16594	502.4575
GREB1	0.83254	2.443264	68.31345	3.994803
GREB1L	7.492856	12.82714	8.036876	5.770271
GREM1	0.83254	4.275712	0	0.443867
GREM2	3.330158	1.221632	12.05531	3.994803
GRHL1	18.31587	67.80057	16.07375	124.2828
GRHL2	228.1158	246.1588	28.12907	283.631
GRHL3	5.827777	3.664896	12.05531	10.65281
GRHPR	599.4285	1021.284	200.9219	464.2849
GRIA1	0	1.221632	24.11063	1.775468
GRIA2	0	2.443264	20.09219	0.887734
GRIA3	6.660317	21.37856	128.59	22.19335
GRIA4	0	0	4.018438	0.887734
GRID1	0.83254	0	44.20282	0.887734
GRID2	0	0.610816	12.05531	0
GRID2IP	6.660317	34.81651	12.05531	23.96882
GRIK1	3.330158	0.610816	8.036876	2.219335
GRIK1-AS1	0	0	0	0.443867
GRIK1-AS2	1.665079	3.664896	0	4.43867
GRIK2	0	1.832448	16.07375	14.64761
GRIK3	0	0.610816	12.05531	0
GRIK4	0	0	12.05531	0.443867
GRIK5	18.31587	10.99469	293.346	16.86695
GRIN1	9.990475	11.6055	52.23969	5.326404
GRIN2A	0.83254	13.43795	40.18438	7.101872
GRIN2B	0	0.610816	4.018438	0.443867
GRIN2C	1.665079	4.886528	8.036876	7.101872
GRIN2D	374.6428	142.3201	60.27657	181.5416

GRIN3A	2.497619	1.832448	8.036876	2.219335
GRIN3B	4.995237	4.886528	0	15.09148
GRINA	1701.711	670.6759	1948.942	1152.279
GRIP1	5.827777	5.497344	12.05531	11.98441
GRIP2	2.497619	0	20.09219	0.887734
GRIPAP1	526.165	226.0019	626.8763	367.9658
GRK1	0	0	0	0
GRK4	4.162698	3.664896	8.036876	12.42828
GRK5	61.60793	22.60019	337.5488	23.52495
GRK6	450.4039	305.408	293.346	375.9554
GRK7	2.497619	0	0	0.443867
GRM1	0	0	28.12907	0
GRM2	0	1.221632	28.12907	1.331601
GRM3	1.665079	0	20.09219	0.443867
GRM4	0	0	24.11063	0
GRM5	0	15.88121	4.018438	19.08628
GRM6	0	0.610816	16.07375	1.331601
GRM7	0	1.221632	36.16594	0.887734
GRM8	0	2.443264	20.09219	0
GRN	1123.096	2161.678	1699.799	2573.097
GRP	0	0	0	1.331601
GRPEL1	288.0587	211.9531	269.2353	202.8472
GRPEL2	57.44523	52.53017	48.22126	55.03951
GRPR	0	0.610816	12.05531	0.443867
GRSF1	480.3753	674.3408	313.4382	455.8514
GRT1	164.0103	204.6233	8.036876	123.395
GRWD1	483.7055	524.0801	100.461	244.5707
GRXCR1	0	0	8.036876	0
GRXCR2	0	0	0	0
GSC	2.497619	0	0	0
GSC2	0	0	8.036876	0
GSDMA	0.83254	0.610816	4.018438	0.443867
GSDMB	1107.278	696.941	32.1475	600.5521
GSDMC	1.665079	6.718975	0	21.74948
GSDMD	2595.026	1250.951	48.22126	700.866
GSG1	1.665079	0	4.018438	0
GSG1L	0	1.221632	0	0
GSG2	11.65555	18.32448	12.05531	19.08628
GSK3A	484.538	531.4099	884.0564	392.3784
GSK3B	338.0111	159.423	421.936	192.6383
GSN	3020.454	2382.182	79946.82	2755.083
GSPT1	466.2222	615.0917	1394.398	502.9013
GSPT2	30.80396	47.03283	180.8297	56.81498
GSR	315.5325	874.6884	68.31345	635.6176
GSS	1028.186	1034.111	317.4566	984.497
GSTA1	3.330158	269.9807	4.018438	295.1716
GSTA2	0.83254	5.497344	0	16.86695

GSTA3	1.665079	0	0	0
GSTA4	3.330158	36.03814	0	47.49377
GSTA5	0	0	4.018438	0
GSTA7P	0	0.610816	8.036876	0.443867
GSTCD	18.31587	48.25446	36.16594	33.73389
GSTK1	1889.032	2551.989	68.31345	1879.333
GSTM1	58.27777	4.275712	144.6638	13.75988
GSTM2	32.46904	9.773055	160.7375	26.18815
GSTM2P1	0	1.221632	84.3872	1.775468
GSTM3	449.5714	274.2564	438.0097	108.7474
GSTM4	168.173	78.79526	196.9035	89.21727
GSTM5	4.995237	4.275712	646.9685	23.52495
GSTO1	1875.712	466.0526	132.6085	262.3254
GSTO2	452.069	174.6934	40.18438	83.447
GSTP1	21059.92	7271.153	3291.101	5246.508
GSTT1	278.9008	553.3993	365.6779	162.0115
GSTT2	5.827777	5.497344	60.27657	5.770271
GSTT2B	0	0	0	0
GSTTP1	0	0	0	0
GSTTP2	0	0	0	0
GSTZ1	177.3309	153.3148	12.05531	124.2828
GSX1	0	0.610816	0	0
GSX2	0	0	16.07375	0
GTDC1	30.80396	69.63302	120.5531	67.02392
GTF2A1	4.162698	8.551423	52.23969	12.87214
GTF2A1L	0	0	0	0
GTF2A2	98.23967	239.4399	558.5629	209.9491
GTF2B	139.0341	246.1588	462.1204	161.1237
GTF2E1	39.9619	38.48141	48.22126	46.60604
GTF2E2	164.0103	240.6615	325.4935	195.3015
GTF2F1	702.6634	404.971	1607.375	343.1092
GTF2F2	144.8619	179.5799	180.8297	85.66633
GTF2H1	163.1778	116.055	333.5304	122.0634
GTF2H2	0	1.832448	0	3.107069
GTF2H2B	0	1.221632	0	0
GTF2H2C	0	0	0	0.443867
GTF2H2D	0	0.610816	0	0.887734
GTF2H3	9.157935	37.25977	52.23969	22.19335
GTF2H4	0	2.443264	0	1.775468
GTF2H5	155.6849	293.8025	458.1019	144.2568
GTF2I	44.1246	96.50892	56.25813	110.9668
GTF2IP1	0	0	0	0
GTF2IRD1	139.0341	113.001	120.5531	213.5
GTF2IRD2	3.330158	14.04877	0	11.09668
GTF2IRD2E	10.82301	23.82182	0	15.53535
GTF2IRD2F	0	0	0	0
GTF3A	914.1285	774.5146	168.7744	444.7548

GTF3C1	579.4475	401.9169	24.11063	465.6165
GTF3C2	457.8968	274.2564	261.1985	371.0728
GTF3C3	91.57935	193.0178	108.4978	162.8992
GTF3C4	21.64603	32.37325	16.07375	30.62682
GTF3C5	689.3428	303.5755	52.23969	216.6071
GTF3C6	328.8531	385.4249	104.4794	243.2391
GTPBP1	423.7626	270.5915	184.8482	270.315
GTPBP10	87.41666	120.3307	12.05531	93.21207
GTPBP2	626.0698	434.2901	409.8807	735.9315
GTPBP3	268.9103	114.8334	28.12907	95.43141
GTPBP4	305.542	510.0313	313.4382	390.1591
GTPBP5	129.0436	260.2076	56.25813	210.393
GTPBP6	0	0	0	0
GTPBP8	28.30635	23.82182	24.11063	19.97402
GTSE1	99.07221	198.5152	0	105.1965
GTSF1	0	0	12.05531	0.443867
GTSF1L	0	0	4.018438	0
GUCA1A	11.65555	1.221632	188.8666	1.331601
GUCA1B	52.44999	11.6055	24.11063	35.06549
GUCA1C	0	0	0	0
GUCA2A	0	5.497344	0	12.42828
GUCA2B	6.660317	10.99469	0	25.74429
GUCY1A2	0	0	28.12907	0.887734
GUCY1A3	47.45476	37.87059	28.12907	83.00313
GUCY1B2	62.44047	95.8981	8.036876	88.7734
GUCY1B3	15.81825	33.59488	28.12907	54.59564
GUCY2C	66.60317	11.6055	4.018438	6.658005
GUCY2D	0	1.221632	0	0
GUCY2E	0	0	0	0.887734
GUCY2F	0	0.610816	8.036876	1.331601
GUCY2GP	0	0	0	0
GUF1	97.40713	94.67647	245.1247	102.9771
GUK1	6940.05	2577.643	667.0607	2115.914
GULP1	20.81349	54.36262	4.018438	57.70271
GUSB	730.9697	683.5031	554.5445	657.8109
GUSBP1	19.98095	24.43264	0	18.64241
GUSBP10	0	0	0	0.887734
GUSBP11	364.6523	159.423	20.09219	208.6175
GUSBP2	0	0.610816	0	3.107069
GUSBP3	0	0	0	0
GUSBP4	3.330158	1.221632	0	1.331601
GUSBP5	0.83254	6.718975	0	4.43867
GUSBP9	0	0	0	0
GVINP1	8.325396	9.162239	108.4978	17.75468
GXYLT1	29.97142	33.59488	12.05531	46.60604
GXYLT2	0	1.221632	28.12907	0.887734
GYG1	239.7714	137.4336	208.9588	91.43661



GYG2	85.75158	40.31385	0	49.26924
GYG2P1	11.65555	0	0	0
GYLTL1B	35.7992	43.97875	4.018438	61.25365
GYP A	0	1.221632	0	0.443867
GYPB	0	0	0	0
GYP C	0	0	0	0.443867
GYPE	0	0.610816	0	0
GYS1	469.5523	352.4408	52.23969	321.8036
GYS2	0	0.610816	4.018438	1.775468
GZF1	56.61269	71.46547	56.25813	93.65594
GZMA	1.665079	1.832448	16.07375	1.331601
GZMB	0	0	0	0.887734
GZMH	7.492856	27.48672	8.036876	29.29522
GZMK	0	0	12.05531	0.443867
GZMM	0	0	8.036876	2.663202
H19	1.665079	22.60019	281.2907	24.41269
H1F0	1849.903	1960.719	972.462	1132.749
H1FNT	0	0	8.036876	0.443867
H1FOO	0	0	0	0
H1FX	3065.411	999.2949	100.461	624.9648
H1FX-AS1	106.5651	20.15693	16.07375	24.85655
H2AFB1	0	0	0	0
H2AFB2	0	0	0	0
H2AFB3	0	0	0	0
H2AFJ	1839.08	1473.288	1374.306	1055.072
H2AFV	445.4087	629.7512	614.821	432.7703
H2AFX	1550.189	800.1689	992.5542	550.839
H2AFY	1501.069	877.1317	1048.812	897.0552
H2AFY2	4.162698	10.38387	96.44251	14.64761
H2AFZ	2316.958	2064.558	3387.543	1505.597
H2BFM	0	0	0	0
H2BFWT	0	0	0	0
H2BFXP	0	0	0	0
H3F3A	0	0	0	0
H3F3AP4	0	0	0	0
H3F3B	2499.284	3228.162	7068.433	1877.557
H3F3C	44.1246	23.82182	723.3188	48.3815
H6PD	767.6015	440.3983	68.31345	575.6955
HAAO	5.827777	14.65958	16.07375	15.53535
HABP2	73.26348	7.940607	4.018438	86.99794
HABP4	54.94761	115.4442	108.4978	71.01872
HACE1	19.98095	17.10285	120.5531	20.41788
HACL1	129.0436	97.11974	56.25813	40.3919
HADH	417.9349	349.9975	212.9772	190.8628
HADHA	1265.46	1196.588	602.7657	667.576
HADHB	195.6468	184.4664	815.7429	159.3483
HAGH	291.3889	313.3486	357.641	230.367

HAGHL	696.8356	157.5905	216.9957	102.5333
HAL	139.0341	39.70304	3371.47	127.8337
HAMP	0	0	0	0.443867
HAND1	0	0	4.018438	0
HAND2	0	0	4.018438	0
HAO1	0	1.221632	4.018438	4.882537
HAO2	0	1.221632	0	0.443867
HAP1	0.83254	4.886528	4.018438	20.86175
HAPLN1	0	0	4.018438	0.443867
HAPLN2	2.497619	0	12.05531	3.994803
HAPLN3	52.44999	4.886528	8.036876	14.64761
HAPLN4	1.665079	0	0	0
HAR1A	2.497619	0.610816	52.23969	0
HAR1B	0	0	0	0
HARBI1	15.81825	25.04345	48.22126	13.75988
HARS	586.1079	296.8566	980.4989	279.6362
HARS2	277.2357	301.1323	200.9219	253.8919
HAS1	0	4.275712	44.20282	2.663202
HAS2	0	6.10816	88.40564	9.321207
HAS2-AS1	2.497619	1.221632	8.036876	0.443867
HAS3	13.32063	178.9691	12.05531	104.7526
HAT1	194.8143	382.9816	401.8438	201.9595
HAUS1	60.77539	80.62771	28.12907	47.93764
HAUS2	14.15317	107.5036	8.036876	77.67673
HAUS3	34.13412	61.69241	225.0325	71.01872
HAUS4	235.6087	352.4408	184.8482	185.5364
HAUS5	215.6278	248.6021	44.20282	163.3431
HAUS6	24.97619	48.25446	0	49.26924
HAUS7	228.1158	181.4123	8.036876	71.01872
HAUS8	164.8428	66.57894	0	47.49377
HAVCR1	1.665079	51.30854	0	49.71311
HAVCR2	0	2.443264	0	3.107069
HAX1	568.6245	638.3027	361.6594	491.8047
HBA1	0	0	0	0
HBA2	0	0	0	0
HBB	4.995237	42.1463	2921.404	4.882537
HBBP1	0	0	0	0
HBD	0	3.664896	787.6139	0.887734
HBE1	1.665079	3.664896	257.18	0
HBEGF	434.5857	50.08691	20.09219	71.01872
HBG1	0	0	0	0
HBG2	0	0	0	0
HBM	0	0	0	0.443867
HBP1	41.62698	116.6658	679.116	147.8077
HBQ1	0	0.610816	0	1.331601
HBS1L	73.26348	114.2226	200.9219	97.20688
HBXIP	486.2031	734.8116	365.6779	405.2506

HBZ	2.497619	1.832448	100.461	0
HCAR1	3.330158	4.275712	4.018438	10.20894
HCAR2	1.665079	1.221632	12.05531	12.42828
HCAR3	0	0.610816	0	5.770271
HCCS	142.3643	64.74649	12.05531	74.56966
HCFC1	658.5388	373.8194	216.9957	417.235
HCFC1R1	363.8198	679.2273	1567.191	498.0188
HCFC2	14.98571	18.32448	116.5347	26.18815
HCG11	19.14841	19.54611	36.16594	22.19335
HCG18	0	0	0	0.443867
HCG22	0	0	4.018438	0
HCG23	0	0	0	0
HCG25	0	0	0	0
HCG26	2.497619	0	0	0
HCG27	2.497619	0.610816	0	0
HCG4	0	0	0	0
HCG4B	2.497619	0	0	0.887734
HCG9	0	0	0	0
HCK	72.43094	40.92467	405.8622	64.36072
HCLS1	109.8952	60.47078	1269.826	107.4158
HCN1	2.497619	0	24.11063	0
HCN2	0.83254	10.99469	12.05531	16.86695
HCN3	56.61269	39.70304	48.22126	64.80458
HCN4	3.330158	0.610816	44.20282	3.994803
HCP5	0	0	0	0
HCRT	0	0	0	0
HCRTR1	0	0	8.036876	0
HCRTR2	0	0	0	0.443867
HCST	4.162698	5.497344	20.09219	5.770271
HDAC1	1742.505	1670.582	582.6735	1114.994
HDAC10	304.7095	614.4808	56.25813	363.5271
HDAC11	389.6285	162.477	8.036876	107.8597
HDAC2	574.4523	455.0579	976.4804	314.7017
HDAC3	533.6579	283.4186	775.5585	266.3202
HDAC4	104.0674	105.6712	32.1475	106.0842
HDAC5	253.092	221.1154	2953.552	277.8608
HDAC6	363.8198	222.337	76.35032	303.605
HDAC7	1473.595	509.4205	442.0282	859.7704
HDAC8	131.5413	156.9797	148.6822	104.3087
HDAC9	49.95237	37.25977	108.4978	68.79939
HDC	29.97142	9.162239	60.27657	34.17776
HDDC2	215.6278	371.3761	277.2722	197.077
HDDC3	189.819	199.126	313.4382	97.65074
HDGF	4585.628	4136.446	1265.808	3567.803
HDGFL1	0	0	4.018438	0
HDGFRP2	621.9071	378.0951	164.756	313.3701
HDGFRP3	2.497619	5.497344	56.25813	19.97402

HDHD1	128.2111	157.5905	0	71.01872
HDHD2	54.11507	87.9575	253.1616	90.105
HDHD3	2492.623	485.5987	96.44251	378.6186
HDLBP	2842.29	3674.058	2672.261	3996.135
HDX	6.660317	0	4.018438	0.443867
HEATR1	50.78491	155.7581	124.5716	162.4553
HEATR2	141.5317	243.7156	8.036876	241.4637
HEATR3	81.58888	122.1632	56.25813	88.7734
HEATR4	3.330158	1.221632	4.018438	2.219335
HEATR5A	33.30158	56.19507	136.6269	81.22766
HEATR5B	81.58888	94.67647	160.7375	156.6851
HEATR6	24.97619	101.3954	44.20282	102.0894
HEATR7A	477.0452	269.9807	136.6269	304.9366
HEATR7B2	0	0.610816	16.07375	0
HEATR8	49.11984	0	8.036876	0.887734
HEATR8-TT	0	0	0	0
HEBP1	65.77063	420.2414	655.0054	205.9543
HEBP2	498.6912	552.7884	68.31345	300.0541
HECA	133.2063	58.02752	80.36876	70.57486
HECTD1	188.9865	458.112	578.6551	522.4315
HECTD2	0	4.275712	8.036876	24.85655
HECTD3	576.1174	419.6306	405.8622	384.3888
HECW1	0	0	8.036876	0.443867
HECW2	2.497619	47.03283	48.22126	54.59564
HEG1	32.46904	14.04877	225.0325	23.96882
HELB	1.665079	3.05408	12.05531	7.545739
HELLS	34.96666	58.63833	20.09219	36.3971
HELQ	41.62698	57.4167	40.18438	43.49897
HELT	0	0	0	0
HELZ	97.40713	125.2173	148.6822	126.946
HEMGN	0.83254	0.610816	4.018438	1.331601
HEMK1	283.896	155.7581	60.27657	135.3794
HENMT1	219.7904	290.7484	4.018438	138.9304
HEPACAM	0	1.221632	16.07375	0
HEPACAM:	4.995237	1.221632	4.018438	0
HEPH	589.438	246.7696	48.22126	8.433473
HEPHL1	2.497619	20.15693	12.05531	11.54054
HEPN1	0	0	0	0
HERC1	82.42142	192.407	646.9685	264.1009
HERC2	152.3547	269.9807	253.1616	417.6789
HERC2P2	105.7325	119.1091	4.018438	297.8348
HERC2P3	0.83254	0	0	0
HERC2P4	0	3.05408	0	0
HERC2P7	0.83254	1.832448	0	4.882537
HERC2P9	14.98571	16.49203	0	31.95843
HERC3	28.30635	53.14099	44.20282	64.80458
HERC4	104.0674	199.7368	486.231	230.8108

HERC5	19.98095	37.87059	8.036876	48.82537
HERC6	193.9817	157.5905	56.25813	173.552
HERPUD1	469.5523	635.8594	566.5998	504.2329
HERPUD2	88.2492	153.3148	204.9403	119.8441
HES1	671.0269	572.9454	687.1529	435.8774
HES2	6.660317	1.221632	0	4.882537
HES3	0	0	0	0
HES4	349.6666	364.6571	12.05531	385.7204
HES5	0	3.664896	4.018438	0.443867
HES6	569.4571	135.6011	285.3091	114.5177
HES7	2.497619	1.221632	32.1475	0.887734
HESX1	4.162698	2.443264	8.036876	0.887734
HEXA	324.6904	1159.939	4062.641	1565.963
HEXB	1139.747	780.012	1748.021	917.4731
HEXDC	215.6278	203.4017	20.09219	217.051
HEXIM1	270.5754	659.6812	1165.347	678.2288
HEXIM2	52.44999	228.4452	40.18438	161.5676
HEY1	6.660317	8.551423	52.23969	18.19855
HEY2	0	0	16.07375	0.887734
HEYL	3.330158	3.05408	12.05531	11.09668
HFE	12.48809	51.30854	12.05531	58.59045
HFE2	0	1.221632	12.05531	1.331601
HFM1	0	0	0	0
HGC6.3	0	0	0	0
HGD	248.9293	420.2414	4.018438	215.7194
HGF	5.827777	1.832448	44.20282	3.550936
HGFAC	0.83254	1.832448	4.018438	10.20894
HGS	1492.743	1025.56	184.8482	1004.027
HGSNAT	122.3833	266.9266	60.27657	308.4876
HHAT	4.995237	58.02752	16.07375	56.37111
HHATL	0.83254	0	64.29501	1.331601
HHEX	304.7095	66.57894	104.4794	78.1206
HHIP	0.83254	12.82714	12.05531	8.87734
HHIPL1	2.497619	1.832448	24.11063	0.443867
HHIPL2	5.827777	0	4.018438	69.24325
HHLA1	0	0	0	0
HHLA2	100.7373	74.51955	4.018438	139.8181
HHLA3	73.26348	34.20569	0	60.36591
HIAT1	72.43094	129.493	216.9957	129.6092
HIATL1	165.6754	127.0497	76.35032	155.7973
HIATL2	4.162698	4.886528	0	5.326404
HIBADH	109.8952	423.2955	309.4197	260.5499
HIBCH	143.1968	198.5152	48.22126	110.5229
HIC1	33.30158	40.31385	389.7885	54.15178
HIC2	18.31587	35.42733	40.18438	47.49377
HIF1A	79.09126	224.7803	261.1985	448.7496
HIF1A-AS2	0	0	0	0.443867

HIF1AN	282.2309	200.3476	208.9588	196.6331
HIF3A	9.990475	0.610816	32.1475	2.663202
HIGD1A	169.8381	219.8937	4.018438	114.9616
HIGD1B	0	9.773055	80.36876	2.663202
HIGD1C	0	0	0	0
HIGD2A	970.7411	410.4683	442.0282	336.0073
HIGD2B	1.665079	1.221632	0	1.331601
HILPDA	82.42142	133.1579	4.018438	92.76821
HILS1	0	0.610816	0	0
HINFP	134.0389	151.4824	36.16594	135.3794
HINT1	2029.731	1649.203	4287.673	785.6446
HINT2	515.342	503.9232	574.6366	323.1352
HINT3	29.13889	52.53017	36.16594	35.06549
HIP1	50.78491	65.96812	176.8113	115.4054
HIP1R	1497.739	339.0029	144.6638	450.525
HIPK1	285.5611	239.4399	570.6182	265.4325
HIPK2	140.6992	164.3095	446.0466	161.5676
HIPK3	4.995237	32.98406	152.7006	43.49897
HIPK4	0	0	20.09219	0.443867
HIRA	356.3269	304.7972	281.2907	197.077
HIRIP3	101.5698	152.704	0	92.76821
HIST1H1A	1.665079	1.832448	20.09219	0.443867
HIST1H1B	4.995237	39.70304	96.44251	6.658005
HIST1H1C	438.7484	387.8681	52.23969	292.9522
HIST1H1D	4.162698	15.2704	28.12907	0.887734
HIST1H1E	17.48333	65.96812	180.8297	15.53535
HIST1H1T	0	0	0	0.887734
HIST1H2A/	0	0	0	0
HIST1H2AE	2.497619	6.718975	0	0
HIST1H2AC	27.47381	161.8662	4.018438	166.894
HIST1H2AC	0	0.610816	0	0
HIST1H2AE	17.48333	16.49203	88.40564	7.989606
HIST1H2AC	0.83254	10.99469	20.09219	3.107069
HIST1H2AF	4.162698	14.65958	84.3872	6.658005
HIST1H2AI	1.665079	12.82714	56.25813	5.326404
HIST1H2AJ	0.83254	3.05408	0	0.443867
HIST1H2Ak	4.162698	4.275712	104.4794	12.87214
HIST1H2AL	194.8143	45.20038	2925.423	54.15178
HIST1H2AM	24.97619	18.93529	245.1247	15.97921
HIST1H2AF	0	0	0	0
HIST1H2BA/	0	0	0	0
HIST1H2BE	0	4.275712	8.036876	0.443867
HIST1H2BC	16.65079	34.20569	40.18438	31.51456
HIST1H2BC	12.48809	282.8078	4.018438	177.5468
HIST1H2BE	9.990475	8.551423	56.25813	8.87734
HIST1H2BF	1.665079	4.275712	8.036876	0
HIST1H2BC	1.665079	1.832448	0	0

HIST1H2BF	0	0	4.018438	0.443867
HIST1H2BI	0	0	0	0.443867
HIST1H2BJ	0	19.54611	0	14.20374
HIST1H2BK	43.29206	483.7662	4.018438	497.1311
HIST1H2BL	1.665079	8.551423	24.11063	3.994803
HIST1H2BM	0.83254	1.221632	4.018438	0
HIST1H2BN	4.995237	18.32448	84.3872	5.770271
HIST1H2BC	8.325396	13.43795	56.25813	4.43867
HIST1H3A	3.330158	6.10816	0	0
HIST1H3B	4.162698	23.82182	0	1.331601
HIST1H3C	5.827777	14.65958	16.07375	0.443867
HIST1H3D	4.162698	16.49203	4.018438	18.64241
HIST1H3E	0.83254	1.221632	16.07375	0.443867
HIST1H3F	4.162698	7.940607	12.05531	0
HIST1H3G	17.48333	7.940607	285.3091	18.64241
HIST1H3H	6.660317	34.20569	60.27657	23.08108
HIST1H3I	4.162698	9.162239	8.036876	0.443867
HIST1H3J	34.96666	27.48672	433.9913	27.51976
HIST1H4A	0.83254	3.05408	8.036876	0.443867
HIST1H4B	1.665079	10.38387	8.036876	0
HIST1H4C	3.330158	12.82714	0	0.443867
HIST1H4D	2.497619	12.21632	8.036876	3.107069
HIST1H4E	0	1.221632	0	0
HIST1H4F	4.162698	1.832448	8.036876	0.887734
HIST1H4G	0	0	0	0
HIST1H4H	0	32.98406	0	20.86175
HIST1H4I	4.162698	8.551423	144.6638	7.545739
HIST1H4J	0	0	0	0.887734
HIST1H4K	0	0.610816	0	0.887734
HIST1H4L	3.330158	6.10816	76.35032	1.775468
HIST2H2A/	0	0	0	0
HIST2H2A/	0	0	0	0
HIST2H2AE	6.660317	8.551423	112.5163	6.658005
HIST2H2AC	19.14841	21.98937	148.6822	8.433473
HIST2H2B/	0	0	0	0.887734
HIST2H2BC	0	0	0	0.887734
HIST2H2BE	34.96666	122.1632	0	146.4761
HIST2H2BF	9.990475	28.09753	0	23.52495
HIST2H3A	0	0	0	0
HIST2H3C	0	0	0	0
HIST2H3D	1.665079	3.664896	8.036876	1.775468
HIST2H4A	0	0	0	0
HIST2H4B	0	0	0	0
HIST3H2A	227.2833	149.6499	2435.173	150.4709
HIST3H2BE	0.83254	1.221632	0	2.219335
HIST3H3	0	0	0	1.331601
HIST4H4	1.665079	8.551423	20.09219	5.326404

HIVEP1	23.31111	47.03283	92.42408	64.80458
HIVEP2	134.8714	91.62239	261.1985	129.1653
HIVEP3	8.325396	61.0816	32.1475	35.50936
HJURP	324.6904	243.1047	8.036876	214.3878
HK1	1431.136	797.1148	257.18	716.4014
HK2	366.3174	170.4177	92.42408	261.8815
HK3	226.4508	7.940607	1153.292	33.29003
HKDC1	1176.378	497.815	24.11063	502.9013
HKR1	381.3031	187.5205	4.018438	232.1425
HLA-A	290.5563	2731.569	1973.053	3986.814
HLA-B	1693.386	1160.55	2515.542	1925.495
HLA-C	2765.696	489.8744	2214.159	662.6935
HLA-DMA	34.13412	0	0	0.887734
HLA-DMB	0	0	0	0
HLA-DOA	0	0	0	0.443867
HLA-DOB	6.660317	0	0	0.443867
HLA-DPA1	0	0	0	0
HLA-DPB1	150.6897	0.610816	0	1.331601
HLA-DPB2	17.48333	2.443264	241.1063	2.219335
HLA-DQA1	541.1507	83.68179	6087.934	59.03431
HLA-DQA2	0	0	0	0
HLA-DQB1	792.5777	28.70835	3066.068	38.17256
HLA-DQB2	0	0	0	0.443867
HLA-DRA	74.09602	0	12.05531	0
HLA-DRB1	1004.043	9.773055	900.1301	125.6144
HLA-DRB3	17.48333	0	68.31345	0
HLA-DRB4	0	0	0	0
HLA-DRB5	797.5729	0	24.11063	15.97921
HLA-DRB6	1.665079	0	16.07375	1.775468
HLA-E	0	0	0	0
HLA-F	19.14841	51.91936	0	64.80458
HLA-F-AS1	4.162698	1.832448	4.018438	3.994803
HLA-G	0	1.832448	0	9.321207
HLA-H	1.665079	18.93529	0	23.08108
HLA-J	2.497619	3.05408	28.12907	3.550936
HLA-L	4.162698	3.05408	12.05531	1.331601
HLCS	53.28253	54.36262	24.11063	63.47298
HLF	3.330158	1.221632	4.018438	5.770271
HLTF	161.5127	89.78995	52.23969	102.0894
HLX	23.31111	25.04345	208.9588	23.52495
HM13	1730.017	2369.355	1494.859	2447.927
HMBX1	5.827777	20.76774	80.36876	31.95843
HMBS	467.8872	511.253	429.9729	293.84
HMCN1	4.995237	6.718975	28.12907	23.08108
HMG20A	53.28253	125.8281	72.33188	161.1237
HMG20B	2130.469	536.2964	421.936	615.1997
HMGA1	2361.082	2559.93	498.2863	1711.107



HMGA1P7	6.660317	1.221632	52.23969	0
HMGA2	10.82301	20.76774	212.9772	19.97402
HMGB1	366.3174	293.1917	546.5076	171.7765
HMGB2	1364.532	1085.42	691.1713	691.5448
HMGB3	412.1071	292.5808	52.23969	128.7214
HMGB3P1	0	0.610816	0	2.219335
HMGB4	0	0	0	0
HMGCL	489.5333	662.7353	401.8438	445.6425
HMGCLL1	0	0.610816	12.05531	0
HMGCR	421.265	448.9497	40.18438	288.9574
HMGCS1	388.796	850.8666	180.8297	594.7818
HMGCS2	162.3452	1.832448	204.9403	3.994803
HMGN1	530.3277	387.8681	12.05531	295.1716
HMGN2	259.7523	428.182	48.22126	315.5895
HMGN2P4	1.665079	1.832448	0	9.765074
HMGN3	421.265	454.4471	269.2353	317.3649
HMGN4	39.9619	255.9319	4.018438	142.9252
HMGN5	106.5651	71.46547	4.018438	39.50416
HMGXB3	471.2174	332.8947	72.33188	472.2745
HMGXB4	94.90951	138.0444	104.4794	98.98235
HMHA1	170.6706	291.97	285.3091	435.8774
HMHB1	0	0	0	0
HMMR	23.31111	46.42201	0	50.60084
HMOX1	36.63174	150.2607	313.4382	151.8025
HMOX2	820.884	561.9507	1322.066	422.5614
HMP19	0.83254	3.664896	8.036876	1.331601
HMSD	0.83254	17.10285	0	6.214138
HMX1	0	0	12.05531	0
HMX2	0	22.60019	4.018438	23.96882
HMX3	0	6.10816	16.07375	8.433473
HN1	3180.301	1621.106	1354.214	1126.091
HN1L	588.6055	810.5528	20.09219	646.7142
HNF1A	449.5714	150.2607	28.12907	129.1653
HNF1A-AS1	78.25872	42.1463	4.018438	27.07589
HNF1B	363.8198	468.4958	24.11063	324.9107
HNF4A	100.7373	101.3954	24.11063	72.79419
HNF4G	159.8476	201.5693	32.1475	91.88047
HNMT	193.9817	725.0385	20.09219	513.998
HNRNPA0	800.9031	538.1289	2230.233	494.4679
HNRNPA1	69.10078	51.91936	72.33188	35.50936
HNRNPA1L	31.6365	20.15693	12.05531	18.19855
HNRNPA1F	0	0	0	0
HNRNPA2E	3986.199	4530.422	10504.2	4128.407
HNRNPA3	509.5142	530.7991	1908.758	482.0396
HNRNPA3F	4.162698	10.38387	172.7928	15.53535
HNRNPAB	2447.666	1263.167	3954.143	1096.352
HNRNPC	601.9261	1006.014	703.2267	862.4336

HNRNPCL1	0	0	0	0
HNRNPD	949.9277	1244.232	1366.269	1091.025
HNRNPF	1252.14	1921.016	4122.917	1490.062
HNRNPH1	1549.356	1025.56	2736.556	1580.167
HNRNPH2	0	10.38387	28.12907	7.101872
HNRNPH3	617.7444	557.0641	851.9089	561.4918
HNRNPK	1213.01	1257.059	2913.368	1130.973
HNRNPKP3	4.995237	8.551423	237.0878	17.75468
HNRNPL	1523.547	1328.525	2403.026	925.9066
HNRNPM	2971.334	1718.225	6284.837	1256.588
HNRNPR	246.4317	445.8956	655.0054	308.4876
HNRNPU	1561.844	1939.341	5195.84	1724.867
HNRNPU-A	206.4698	153.3148	32.1475	178.4345
HNRNPUL1	757.611	1056.101	888.0748	870.4232
HNRNPUL2	550.3087	653.5731	1000.591	427.0001
HNRNPUL2	0	0	0	0
HNRPDL	949.9277	1472.066	1217.587	1304.969
HNRPLL	86.58412	125.2173	494.2679	118.0686
HOGA1	11.65555	14.65958	16.07375	15.53535
HOMER1	4.995237	4.886528	28.12907	13.31601
HOMER2	23.31111	141.7093	32.1475	61.25365
HOMER3	21.64603	295.6349	104.4794	244.1269
HOMEZ	70.76586	62.30323	40.18438	79.00833
HOOK1	74.09602	84.90342	4.018438	62.58525
HOOK2	916.6261	456.2795	80.36876	437.6529
HOOK3	96.57459	92.84402	64.29501	134.0478
HOPX	8.325396	1.221632	132.6085	9.765074
HORMAD1	0	1.221632	0	0.443867
HORMAD2	0	0	8.036876	0.887734
HOTAIR	27.47381	0	0	0
HOTAIRM1	0.83254	8.551423	40.18438	14.64761
HOTTIP	39.12936	0.610816	0	0
HOXA-AS3	12.48809	1.221632	12.05531	0.443867
HOXA-AS5	13.32063	0.610816	16.07375	0
HOXA1	0	0.610816	20.09219	2.663202
HOXA10	188.9865	4.886528	48.22126	6.214138
HOXA10-H	0	0	0	0
HOXA11	24.97619	0	0	0
HOXA13	7.492856	0	48.22126	0
HOXA2	1.665079	1.221632	36.16594	4.43867
HOXA3	40.79444	13.43795	44.20282	21.30562
HOXA4	15.81825	2.443264	28.12907	3.550936
HOXA5	49.95237	5.497344	156.7191	21.74948
HOXA6	4.162698	0	16.07375	1.775468
HOXA7	3.330158	0	44.20282	2.663202
HOXA9	0	0	40.18438	0.443867
HOXB-AS3	19.14841	13.43795	24.11063	17.75468

HOXB-AS5	4.162698	0	0	0
HOXB1	1.665079	0	16.07375	0
HOXB13	10.82301	2.443264	20.09219	0.443867
HOXB2	200.642	29.31917	36.16594	26.18815
HOXB3	239.7714	158.2013	120.5531	128.7214
HOXB4	28.30635	9.162239	60.27657	10.65281
HOXB5	274.7381	107.5036	20.09219	118.5125
HOXB6	422.0976	102.0063	44.20282	93.65594
HOXB7	270.5754	250.4345	152.7006	111.4106
HOXB8	50.78491	9.162239	96.44251	13.75988
HOXB9	121.5508	0.610816	28.12907	3.550936
HOXC10	50.78491	8.551423	172.7928	10.65281
HOXC11	194.8143	0	28.12907	0
HOXC12	0	0	32.1475	0
HOXC13	0	0	52.23969	0.443867
HOXC4	99.90475	3.05408	156.7191	34.17776
HOXC5	14.15317	4.275712	28.12907	10.20894
HOXC6	36.63174	6.10816	152.7006	27.51976
HOXC8	53.28253	17.10285	667.0607	32.84616
HOXC9	48.2873	5.497344	433.9913	20.41788
HOXD-AS1	0	0	0	0.443867
HOXD-AS2	0	0	0	1.331601
HOXD1	0	0	0	0
HOXD10	0	0.610816	44.20282	6.658005
HOXD11	0	0	8.036876	0.443867
HOXD12	0	0	4.018438	0
HOXD13	0	0	8.036876	0.443867
HOXD3	1.665079	0	36.16594	3.550936
HOXD4	2.497619	7.329791	88.40564	14.64761
HOXD8	2.497619	10.99469	112.5163	23.96882
HOXD9	4.162698	2.443264	104.4794	11.98441
HP	9.990475	1.832448	0	61.25365
HP07349	86.58412	34.20569	0	17.75468
HP1BP3	423.7626	392.1438	329.5119	470.0552
HPCA	4.162698	28.70835	48.22126	23.08108
HPCAL1	1130.589	320.0676	908.167	447.418
HPCAL4	0	1.221632	4.018438	0
HPD	8.325396	7.940607	8.036876	3.107069
HPDL	526.165	35.42733	16.07375	8.87734
HPGD	158.1825	834.9854	88.40564	363.971
HPGDS	0	5.497344	120.5531	3.107069
HPN	2.497619	57.4167	32.1475	160.6799
HPR	108.2301	9.162239	92.42408	11.54054
HPRT1	169.0055	310.9053	1470.748	130.4969
HPS1	904.9705	298.689	156.7191	302.2734
HPS3	57.44523	83.07097	96.44251	63.47298
HPS4	310.5373	285.8619	104.4794	237.025

HPSS	71.5984	64.13568	140.6453	103.421
HPSS6	190.6516	128.2714	60.27657	101.2017
HPSE	67.43571	61.69241	261.1985	59.47818
HPSE2	0.83254	0	12.05531	0.443867
HPVC1	0	0	8.036876	0
HPX	32.46904	5.497344	12.05531	11.54054
HPYR1	0	0	0	0
HR	193.9817	204.0125	44.20282	157.1289
HRAS	1073.144	205.2342	695.1898	158.4605
HRASLS	15.81825	10.99469	0	3.107069
HRASLS2	45.78968	10.99469	0	7.989606
HRASLS5	0	39.09222	0	31.95843
HRC	0	1.832448	136.6269	0.443867
HRCT1	29.97142	0.610816	0	1.775468
HRG	0	0	0	4.43867
HRH1	25.80873	38.48141	8.036876	35.50936
HRH2	0	0.610816	0	0
HRH3	0.83254	0	20.09219	0
HRH4	0	0	0	0.443867
HRK	0.83254	0	12.05531	0.443867
HRNR	0	1.221632	0	0.443867
HRSP12	137.369	159.423	32.1475	102.5333
HS1BP3	144.0293	215.618	28.12907	171.7765
HS2ST1	114.8905	111.7793	44.20282	124.2828
HS3ST1	303.8769	392.1438	48.22126	204.6227
HS3ST2	0.83254	0	28.12907	0
HS3ST3A1	0	0.610816	4.018438	0.443867
HS3ST3B1	0	0	12.05531	1.775468
HS3ST4	0	0	8.036876	0
HS3ST5	0	7.329791	8.036876	2.219335
HS3ST6	0	0.610816	16.07375	0.887734
HS6ST1	35.7992	18.32448	36.16594	65.24845
HS6ST2	9.157935	43.36793	24.11063	45.7183
HS6ST3	1.665079	0	32.1475	0.887734
HSBP1	848.3578	755.5793	321.475	453.6321
HSBP1L1	248.9293	121.5524	4.018438	112.2984
HSCB	133.2063	128.8822	144.6638	60.36591
HSD11B1	7.492856	3.664896	128.59	7.989606
HSD11B1L	158.1825	31.76243	0	38.17256
HSD11B2	352.9968	95.28729	0	30.62682
HSD17B1	157.35	101.3954	0	79.89606
HSD17B10	926.6165	480.7122	1012.646	478.0448
HSD17B11	359.6571	1342.573	32.1475	508.6716
HSD17B12	92.41189	111.7793	60.27657	112.7422
HSD17B13	4.995237	4.886528	4.018438	3.994803
HSD17B14	38.29682	4.275712	24.11063	3.994803
HSD17B2	1209.68	522.8585	4.018438	311.1508

HSD17B3	25.80873	8.551423	0	6.214138
HSD17B4	373.8103	448.3389	574.6366	371.5167
HSD17B6	0	0.610816	16.07375	0.443867
HSD17B7	60.77539	100.7846	0	59.92205
HSD17B7P	14.15317	26.26509	0	14.64761
HSD17B8	0	0	0	0
HSD3B1	0	0	0	0
HSD3B2	0	0	0	0.887734
HSD3B7	286.3936	424.5171	160.7375	289.8452
HSD3BP4	0	0	4.018438	0.443867
HSD52	0	0	0	1.331601
HSDL1	114.0579	66.57894	0	65.69232
HSDL2	248.9293	148.4283	108.4978	85.22247
HSF1	1113.938	712.2114	204.9403	530.4211
HSF2	37.46428	26.26509	148.6822	35.50936
HSF2BP	4.995237	9.773055	0	11.98441
HSF4	405.4468	263.2617	84.3872	357.3129
HSF5	0	0.610816	48.22126	1.331601
HSFX1	0	0	0	0
HSFX2	0	0	0	0
HSFY1	0	0	0	0
HSFY1P1	0	0	0	0
HSFY2	0	0	0	0
HSH2D	515.342	130.7146	4.018438	181.0977
HSP90AA1	4153.54	5668.372	839.8536	3574.017
HSP90AA4	4.995237	8.551423	44.20282	4.882537
HSP90AA6	2.497619	4.275712	128.59	10.65281
HSP90AB1	6622.02	4426.583	5738.33	4336.581
HSP90AB2	25.80873	20.76774	831.8167	35.50936
HSP90AB3	64.93809	45.20038	1482.804	79.4522
HSP90AB4	6.660317	6.10816	72.33188	8.433473
HSP90B1	5159.248	6525.958	5276.209	4507.026
HSP90B3P	34.13412	32.37325	659.0238	47.49377
HSPA12A	8.325396	7.329791	48.22126	20.86175
HSPA12B	5.827777	11.6055	164.756	16.86695
HSPA13	16.65079	23.21101	28.12907	47.93764
HSPA14	164.8428	164.9203	357.641	152.2464
HSPA1A	0	0	0	0
HSPA1B	2.497619	0.610816	0	0
HSPA1L	0	0	0	0
HSPA2	10.82301	35.42733	144.6638	47.49377
HSPA4	511.1793	481.9338	1904.74	394.5978
HSPA4L	14.98571	6.10816	36.16594	15.09148
HSPA5	2662.462	3764.459	4930.623	2838.53
HSPA6	44.1246	30.5408	594.7288	36.84096
HSPA7	1.665079	3.05408	0	0
HSPA8	5055.18	7921.061	8744.121	3353.859

HSPA9	1193.029	705.4924	855.9273	654.7039
HSPB1	4385.818	1119.626	530.4338	1359.121
HSPB11	95.74205	144.1526	76.35032	90.105
HSPB2	0	1.221632	40.18438	3.550936
HSPB2-C11	0	0	0	0
HSPB3	1.665079	0	12.05531	0.443867
HSPB6	2.497619	0.610816	24.11063	3.550936
HSPB7	0	0	8.036876	0.887734
HSPB8	0.83254	12.21632	100.461	12.42828
HSPB9	0	10.38387	0	8.433473
HSPBAP1	179.8285	50.69772	36.16594	51.04471
HSPBP1	1301.259	717.0979	1241.697	379.9502
HSPC072	0	0	0	1.331601
HSPD1	1177.211	1082.366	1052.831	767.0022
HSPE1	157.35	168.5852	0	117.1809
HSPE1-MO	0	0	0	0
HSPG2	194.8143	511.253	317.4566	572.5885
HSPH1	243.1016	266.3158	168.7744	226.816
HTA	0	0	0	0
HTATIP2	587.7729	535.0748	458.1019	336.0073
HTATSF1	388.796	806.8879	478.1941	476.7132
HTN1	0	0	0	0
HTN3	0	0	0	0
HTR1A	0	0	4.018438	0
HTR1B	0	0	4.018438	0.443867
HTR1D	3.330158	69.0222	12.05531	33.29003
HTR1E	0	0	0	0
HTR1F	0	0	0	0.443867
HTR2A	0.83254	1.832448	8.036876	0.443867
HTR2B	16.65079	9.773055	4.018438	10.65281
HTR2C	0	0	0	1.775468
HTR3A	3.330158	0	4.018438	0.887734
HTR3B	0	0	0	0
HTR3C	0	0	0	0.443867
HTR3D	1.665079	0	0	0
HTR3E	2.497619	0	0	0
HTR4	0	0	4.018438	0.443867
HTR5A	1.665079	0	0	0
HTR6	0	0	8.036876	0.443867
HTR7	4.995237	0.610816	28.12907	0.443867
HTR7P1	1.665079	9.773055	0	8.433473
HTRA1	20.81349	36.03814	2009.219	129.1653
HTRA2	172.3357	164.9203	735.3742	153.1341
HTRA3	8.325396	25.65427	1097.034	67.02392
HTRA4	1.665079	3.664896	0	5.770271
HTT	826.7118	446.5065	160.7375	744.365
HTT-AS1	0	0.610816	0	0.887734

HULC	0	0	0	0.443867
HUNK	14.98571	34.20569	12.05531	25.30042
HUS1	54.94761	64.74649	4.018438	51.48857
HUS1B	2.497619	1.221632	0	0
HUWE1	828.3769	694.4977	2049.403	1208.65
HVCN1	9.157935	3.664896	16.07375	13.31601
HYAL1	464.5571	522.2476	12.05531	284.0749
HYAL2	237.2738	280.9753	116.5347	227.2599
HYAL3	41.62698	23.82182	0	28.85136
HYAL4	0	0	0	0.443867
HYALP1	0	0	4.018438	0
HYDIN	0	24.43264	4.018438	19.08628
HYI	0	0	0	0
HYLS1	25.80873	75.13036	52.23969	51.48857
HYMAI	0	0	0	0
HYOU1	780.0896	1536.202	148.6822	1581.054
IAH1	204.8047	373.8194	506.3232	216.1632
IAPP	0	0	0	0
IARS	439.5809	320.6784	136.6269	325.7984
IARS2	375.4753	932.1051	36.16594	529.5334
IBA57	52.44999	63.52486	16.07375	41.27963
IBSP	0.83254	0	0	0.443867
IBTK	86.58412	126.4389	68.31345	109.6352
ICA1	408.7769	503.9232	140.6453	395.4855
ICA1L	11.65555	12.21632	16.07375	16.42308
ICAM1	230.6135	263.2617	8.036876	477.6009
ICAM2	0	20.15693	0	23.08108
ICAM3	163.1778	73.29791	12.05531	72.79419
ICAM4	0	1.221632	0	4.43867
ICAM5	0	1.832448	12.05531	4.882537
ICK	22.47857	46.42201	56.25813	65.24845
ICMT	561.1317	727.4818	32.1475	509.5593
ICOS	0	0	4.018438	0.443867
ICOSLG	115.723	12.21632	0	5.326404
ICT1	226.4508	291.3592	393.8069	157.5728
ID1	1476.925	661.5137	466.1388	492.6924
ID2	250.5944	454.4471	1760.076	291.6206
ID2B	1.665079	1.832448	56.25813	1.775468
ID3	109.0627	69.63302	920.2223	136.711
ID4	0	1.832448	68.31345	4.882537
IDAS	14.15317	10.38387	0	24.85655
IDE	116.5555	150.2607	164.756	117.6248
IDH1	461.2269	1384.72	932.2776	999.5885
IDH2	1334.561	828.8772	2475.358	1094.132
IDH3A	104.0674	90.40076	257.18	95.43141
IDH3B	725.9745	860.0289	1792.223	603.2153
IDH3G	679.3523	638.3027	912.1854	442.0916

IDI1	348.8341	766.574	12.05531	251.6726
IDI2	48.2873	20.76774	8.036876	14.64761
IDI2-AS1	4.995237	6.718975	4.018438	10.65281
IDO1	25.80873	4.275712	0	0.443867
IDO2	0.83254	0.610816	4.018438	0
IDS	213.9627	333.5055	144.6638	317.8088
IDUA	213.9627	481.323	16.07375	582.7974
IER2	1567.672	646.2433	184.8482	444.7548
IER3	36.63174	28.70835	0	23.08108
IER3IP1	116.5555	152.0932	450.0651	130.053
IER5	484.538	323.1216	803.6876	583.6851
IER5L	1179.709	516.7503	1161.329	814.496
IFFO1	17.48333	10.99469	144.6638	31.07069
IFFO2	351.3317	98.95218	64.29501	130.4969
IFI16	238.9389	239.4399	56.25813	328.9055
IFI27	12036.02	12876.61	212.9772	8688.697
IFI27L1	407.9444	127.6605	12.05531	82.1154
IFI27L2	646.8833	425.1279	44.20282	383.945
IFI30	1258.8	293.1917	84.3872	355.0936
IFI35	383.8007	456.8903	208.9588	244.5707
IFI44	406.2793	496.5934	24.11063	484.7028
IFI44L	114.8905	293.1917	20.09219	419.4543
IFI6	1587.653	4999.529	64.29501	5414.29
IFIH1	54.94761	196.0719	80.36876	136.2672
IFIT1	54.94761	255.3211	16.07375	169.5572
IFIT1B	0	0	0	1.331601
IFIT2	45.78968	105.6712	16.07375	129.6092
IFIT3	112.3928	120.9416	12.05531	98.98235
IFIT5	68.26825	48.25446	0	62.14138
IFITM1	1237.986	210.1207	8.036876	154.0219
IFITM10	99.90475	613.87	76.35032	592.1186
IFITM2	1065.651	179.5799	2491.432	325.7984
IFITM3	3024.616	798.3365	16.07375	1119.876
IFITM4P	0	0	0	0
IFITM5	0	0	12.05531	1.775468
IFLTD1	0	0	8.036876	0
IFNA1	0	0	0	0
IFNA10	0	0	0	0
IFNA13	0	0	0	0
IFNA14	0	0	0	0
IFNA16	0	0	0	0
IFNA17	0	0	0	0
IFNA2	0	0	4.018438	0
IFNA21	0	0	8.036876	0
IFNA22P	0	0	0	0
IFNA4	0	0	0	0
IFNA5	0	0	0	0



IFNA6	0	0	0	0
IFNA7	0	0	0	0
IFNA8	0	0	0	0
IFNAR1	264.7476	145.985	0	154.9096
IFNAR2	156.5174	63.52486	44.20282	100.7578
IFNB1	0	0	0	0
IFNE	43.29206	0	0	0
IFNG	0	0	0	0
IFNGR1	410.442	290.1376	40.18438	300.9418
IFNGR2	590.2706	468.4958	16.07375	400.8119
IFNK	0	0	0	0
IFNW1	0	0	0	0
IFRD1	169.8381	121.5524	1068.905	184.6487
IFRD2	571.1222	315.7918	124.5716	248.1217
IFT122	867.5062	180.1907	84.3872	177.5468
IFT140	257.2547	138.6552	72.33188	212.1684
IFT172	754.2809	599.8213	353.6225	334.6757
IFT20	94.90951	208.2882	831.8167	157.1289
IFT27	400.4515	182.0232	253.1616	133.1601
IFT43	234.7762	257.1535	152.7006	205.0666
IFT46	139.8666	196.0719	458.1019	140.7058
IFT52	104.0674	196.0719	168.7744	121.1757
IFT57	626.9023	301.7431	160.7375	224.1528
IFT74	32.46904	96.50892	164.756	61.25365
IFT80	118.2206	112.3901	20.09219	168.6695
IFT81	52.44999	68.41139	80.36876	48.82537
IFT88	100.7373	94.06566	40.18438	63.91685
IGBP1	288.8912	1058.544	269.2353	368.4096
IGBP1P1	0	0.610816	24.11063	0.887734
IGDCC3	3.330158	0	40.18438	0
IGDCC4	0	2.443264	56.25813	9.321207
IGF1	39.12936	11.6055	1028.72	40.83577
IGF1R	111.5603	97.11974	116.5347	171.7765
IGF2	0	0	4.018438	0.443867
IGF2-AS1	0	0	0	1.331601
IGF2BP1	0	7.940607	44.20282	10.65281
IGF2BP2	410.442	80.62771	84.3872	117.6248
IGF2BP3	37.46428	97.73055	12.05531	10.20894
IGF2R	322.1928	305.408	136.6269	432.3265
IGFALS	0.83254	13.43795	0	42.61123
IGFBP1	0	104.4495	0	74.56966
IGFBP2	1368.695	21.37856	72.33188	316.4772
IGFBP3	541.1507	232.1101	458.1019	630.2912
IGFBP4	1829.922	435.5118	1671.67	1014.68
IGFBP5	54.11507	41.53548	807.706	80.33993
IGFBP6	55.78015	119.1091	3901.903	134.4917
IGFBP7	891.6499	1417.704	6566.128	4100

IGFBPL1	0.83254	0	4.018438	0.443867
IGFL1	0	0.610816	0	1.775468
IGFL2	0	0	0	0
IGFL3	0	0	0	0
IGFL4	0	0	0	0
IGFLR1	82.42142	61.0816	12.05531	46.60604
IGFN1	7.492856	1.221632	0	1.331601
IGHMBP2	199.8095	251.0454	16.07375	224.1528
IGIP	52.44999	33.59488	594.7288	49.26924
IGJ	0.83254	1.221632	60.27657	0
IGLL1	0	0	0	0
IGLL3P	4.995237	0	0	0.443867
IGLL5	0	0.610816	12.05531	0
IGLON5	0	0	12.05531	3.550936
IGSF1	1.665079	3.05408	44.20282	10.65281
IGSF10	3.330158	29.31917	84.3872	36.3971
IGSF11	3.330158	4.886528	0	3.550936
IGSF11-AS:	0	0	0	0
IGSF21	0	0	0	0
IGSF22	26.64127	8.551423	0	7.545739
IGSF23	3.330158	1.221632	0	1.331601
IGSF3	126.546	247.3805	8.036876	268.0957
IGSF5	0	0	0	1.331601
IGSF6	0	0	8.036876	4.882537
IGSF8	472.8825	381.1492	839.8536	358.6446
IGSF9	356.3269	166.1419	40.18438	196.1892
IGSF9B	0	1.832448	8.036876	0
IHH	745.1229	149.0391	20.09219	16.86695
IK	709.3237	426.3495	831.8167	332.9003
IKBIP	30.80396	13.43795	28.12907	24.41269
IKBKAP	110.7278	154.5364	64.29501	158.0167
IKBKB	874.1666	384.2032	116.5347	401.2558
IKBKE	236.4412	156.9797	104.4794	275.6414
IKBKG	57.44523	111.7793	12.05531	69.24325
IKZF1	6.660317	6.10816	80.36876	7.989606
IKZF2	29.97142	29.31917	68.31345	48.3815
IKZF3	0	0.610816	20.09219	1.775468
IKZF4	10.82301	9.162239	60.27657	14.64761
IKZF5	15.81825	15.88121	52.23969	20.86175
IL10	0	0	4.018438	1.331601
IL10RA	29.13889	0.610816	4.018438	1.775468
IL10RB	340.5087	306.0188	40.18438	229.9231
IL11	2.497619	16.49203	0	21.74948
IL11RA	349.6666	149.0391	5420.873	292.5084
IL12A	37.46428	4.275712	0	5.326404
IL12B	0	0	0	0.887734
IL12RB1	14.15317	0.610816	0	3.994803

IL12RB2	0	2.443264	0	2.663202
IL13	0	0	0	0.887734
IL13RA1	372.9777	729.9251	68.31345	465.6165
IL13RA2	0	0	0	1.331601
IL15	59.11031	57.4167	24.11063	49.26924
IL15RA	387.9634	162.477	4.018438	131.8285
IL16	16.65079	12.82714	281.2907	30.18296
IL17A	0	0	0	0
IL17B	0	0	24.11063	0
IL17C	3.330158	0	0	3.107069
IL17D	28.30635	1.832448	12.05531	2.219335
IL17F	0	0	0	0
IL17RA	159.8476	228.4452	40.18438	163.7869
IL17RB	131.5413	143.5417	0	60.80978
IL17RC	462.892	274.2564	52.23969	242.7953
IL17RD	19.14841	17.10285	12.05531	14.64761
IL17RE	859.1808	563.7831	40.18438	319.1404
IL17REL	1.665079	0.610816	0	0.443867
IL18	169.0055	1308.368	0	437.6529
IL18BP	60.77539	21.98937	112.5163	51.04471
IL18R1	29.97142	10.99469	0	26.63202
IL18RAP	1.665079	0	4.018438	4.882537
IL19	0.83254	0	0	0
IL1A	0.83254	5.497344	8.036876	8.433473
IL1B	31.6365	15.2704	32.1475	60.36591
IL1F10	0.83254	0	0	0.887734
IL1R1	15.81825	37.87059	4.018438	119.4002
IL1R2	180.6611	47.64364	16.07375	43.49897
IL1RAP	76.59364	20.76774	16.07375	41.27963
IL1RAPL1	0	0	16.07375	0
IL1RAPL2	0	22.60019	0	13.31601
IL1RL1	0.83254	9.162239	0	14.64761
IL1RL2	19.14841	15.2704	0	13.75988
IL1RN	768.434	111.1685	36.16594	92.32434
IL2	0	0	0	0
IL20	0	0	0	0
IL20RA	379.638	25.65427	0	26.63202
IL20RB	119.0532	15.88121	0	49.26924
IL21	0	0	0	0
IL21R	0.83254	0	4.018438	1.331601
IL22	0	0	0	0
IL22RA1	223.9531	240.6615	0	166.0063
IL22RA2	0	0	0	1.331601
IL23A	4.995237	21.37856	4.018438	21.30562
IL23R	0	0.610816	0	0
IL24	0	0.610816	0	0.443867
IL25	0	0	4.018438	1.331601

IL26	0	0	0	0
IL27	2.497619	0	0	0
IL27RA	27.47381	12.21632	8.036876	14.64761
IL28A	0	0	0	0.443867
IL28B	0.83254	0.610816	0	0.887734
IL28RA	17.48333	37.25977	0	53.70791
IL29	0	6.718975	0	4.882537
IL2RA	0	0	0	0
IL2RB	0.83254	0	0	3.994803
IL2RG	1256.302	33.59488	200.9219	91.43661
IL3	0	0	0	0
IL31	0	0	0	0
IL31RA	11.65555	21.37856	0	19.97402
IL32	1203.852	654.1839	8.036876	509.1155
IL33	0	0	0	0.443867
IL34	4.995237	6.718975	40.18438	23.52495
IL36A	0	0	0	0.443867
IL36B	0	0	0	0.443867
IL36G	3.330158	0.610816	0	2.219335
IL36RN	0	0.610816	0	1.775468
IL37	0.83254	1.832448	0	1.775468
IL3RA	0	0	0	0
IL4	0	0	0	0.443867
IL4I1	2.497619	2.443264	4.018438	10.65281
IL4R	958.2531	521.026	32.1475	674.6779
IL5	0	0	0	0.443867
IL5RA	0	0	8.036876	0
IL6	0	3.05408	0	31.95843
IL6R	30.80396	42.75712	44.20282	72.35032
IL6ST	64.10555	97.73055	24.11063	168.6695
IL7	29.13889	3.05408	0	16.42308
IL7R	2.497619	0.610816	20.09219	0
IL8	111.5603	378.7059	4.018438	525.5385
IL9	0	0	0	0
IL9R	0	0	0	0
ILD1R1	96.57459	150.8715	20.09219	114.9616
ILD1R2	0	2.443264	24.11063	6.214138
ILF2	955.7554	1409.763	956.3883	1159.381
ILF3	2213.723	1393.271	265.2169	1679.593
ILK	815.0562	643.8	3532.207	455.4076
ILKAP	536.988	306.0188	2105.662	228.5915
ILVBL	983.2292	463.6093	128.59	323.1352
IMMP1L	33.30158	34.81651	257.18	25.74429
IMMP2L	27.47381	102.0063	32.1475	51.48857
IMMT	525.3325	591.2698	872.0011	342.2215
IMP3	520.3372	772.6822	2129.772	667.576
IMP4	515.342	362.2139	188.8666	249.8971

IMPA1	84.0865	69.63302	32.1475	59.47818
IMPA2	571.9547	510.6421	60.27657	266.3202
IMPACT	41.62698	78.79526	44.20282	51.04471
IMPAD1	266.4127	163.6987	36.16594	188.1996
IMPDH1	412.9396	393.3655	325.4935	300.498
IMPDH2	2486.796	1392.66	2161.92	665.8005
IMPG1	0	0.610816	4.018438	2.219335
IMPG2	3.330158	3.05408	4.018438	3.994803
INA	4.162698	3.05408	100.461	4.882537
INADL	119.0532	395.1979	12.05531	241.9075
INCA1	5.827777	4.886528	0	13.31601
INCENP	178.1635	174.6934	132.6085	241.9075
INE1	2.497619	3.664896	0	6.214138
INE2	0	0	0	0
INF2	3425.068	3925.103	204.9403	3257.096
ING1	117.3881	72.6871	241.1063	72.79419
ING2	190.6516	202.7909	313.4382	145.1445
ING3	30.80396	53.7518	140.6453	38.61643
ING4	356.3269	485.5987	1060.868	378.6186
ING5	263.915	217.4505	16.07375	195.3015
INGX	0	0.610816	8.036876	3.107069
INHA	4.995237	6.718975	8.036876	14.20374
INHBA	13.32063	7.329791	44.20282	14.20374
INHBB	5.827777	369.5437	60.27657	383.5011
INHBC	0.83254	0	4.018438	0.443867
INHBE	3.330158	1.221632	0	0.887734
INMT	0	1.832448	24.11063	3.107069
INMT-FAM	0	0	0	0
INO80	152.3547	252.8778	204.9403	330.6809
INO80B	16.65079	7.329791	0	7.101872
INO80B-W	0	0	0	0
INO80C	329.6857	153.9256	265.2169	93.21207
INO80D	195.6468	189.3529	164.756	189.0873
INO80E	305.542	193.6287	325.4935	164.2308
INPP1	427.9253	431.2361	24.11063	206.3982
INPP4A	68.26825	34.81651	64.29501	59.03431
INPP4B	54.94761	228.4452	20.09219	127.8337
INPP5A	281.3984	198.5152	277.2722	166.894
INPP5B	228.9484	108.7252	144.6638	120.288
INPP5D	17.48333	419.0197	136.6269	415.4595
INPP5E	172.3357	75.13036	16.07375	85.66633
INPP5F	63.27301	45.8112	64.29501	46.60604
INPP5J	145.6944	8.551423	60.27657	10.65281
INPP5K	157.35	141.7093	80.36876	121.6196
INPPL1	871.6689	687.7788	365.6779	1259.695
INS	0	0	4.018438	0
INS-IGF2	0	0	0	0

INSC	5.827777	5.497344	8.036876	13.31601
INSIG1	183.9912	258.986	4.018438	111.4106
INSIG2	116.5555	328.0082	60.27657	240.5759
INSL3	4.995237	4.886528	0	1.775468
INSL4	0.83254	0	0	3.994803
INSL5	0	1.832448	0	1.775468
INSL6	0	0	0	0
INSM1	0.83254	0.610816	44.20282	0.443867
INSM2	0	0	24.11063	1.331601
INSR	222.2881	191.1854	40.18438	212.1684
INSRR	0	0	20.09219	0.443867
INTS1	1288.771	858.8072	317.4566	834.0261
INTS10	221.4555	328.619	261.1985	245.4585
INTS12	109.0627	151.4824	88.40564	122.5073
INTS2	24.97619	37.25977	56.25813	42.16737
INTS3	595.2658	777.5687	285.3091	892.6166
INTS4	113.2254	124.6065	229.051	139.3742
INTS4L1	3.330158	4.886528	0	5.326404
INTS4L2	0	0	0	0
INTS5	294.719	257.7643	618.8395	205.5104
INTS6	34.96666	54.97344	120.5531	83.89087
INTS7	116.5555	125.8281	68.31345	94.54367
INTS8	206.4698	211.3423	204.9403	169.5572
INTS9	84.91904	133.7687	241.1063	137.5988
INTU	24.97619	42.1463	4.018438	64.80458
INVS	20.81349	26.26509	12.05531	31.07069
IP6K1	308.8722	138.0444	281.2907	236.5811
IP6K2	850.0229	392.7547	691.1713	492.2485
IP6K3	0	0	28.12907	9.765074
IPCEF1	12.48809	20.15693	8.036876	31.51456
IPMK	16.65079	8.551423	32.1475	23.52495
IPO11	64.93809	84.90342	68.31345	58.14658
IPO13	254.7571	207.0666	1157.31	304.9366
IPO4	433.7531	401.3061	285.3091	368.8535
IPO5	405.4468	647.4649	1233.66	425.6685
IPO7	135.704	232.1101	401.8438	196.1892
IPO8	141.5317	264.4833	148.6822	207.2859
IPO9	297.2166	484.9879	221.0141	467.392
IPP	13.32063	32.37325	104.4794	19.53015
IPPK	49.11984	30.5408	0	28.85136
IPW	0	8.551423	0	31.07069
IQCA1	1.665079	0	12.05531	0
IQCB1	240.6039	91.62239	96.44251	102.0894
IQCC	122.3833	68.41139	24.11063	63.02912
IQCD	126.546	27.48672	8.036876	19.97402
IQCE	639.3904	517.9719	40.18438	456.7392
IQCF1	0	0	0	0

IQCF2	0	0	4.018438	0
IQCF3	1.665079	0.610816	0	0
IQCF4	0	0	0	0
IQCF5	0	0	0	0
IQCF6	0	0	4.018438	0
IQCG	203.1397	59.85996	4.018438	50.60084
IQCH	2.497619	16.49203	0	15.09148
IQCJ	0	0	0	0
IQCJ-SCHIP	0	0	0	0
IQCK	111.5603	107.5036	32.1475	88.32954
IQGAP1	574.4523	951.6513	482.2126	1044.419
IQGAP2	243.1016	26.26509	100.461	117.1809
IQGAP3	655.2086	391.533	60.27657	573.9201
IQSEC1	149.8571	43.97875	52.23969	104.7526
IQSEC2	111.5603	79.40607	490.2494	139.3742
IQSEC3	4.162698	0	20.09219	1.331601
IQUB	5.827777	1.221632	0	1.331601
IRAK1	1510.227	2258.187	140.6453	1107.448
IRAK1BP1	6.660317	10.99469	60.27657	12.42828
IRAK2	48.2873	75.74118	4.018438	109.1913
IRAK3	142.3643	8.551423	36.16594	263.657
IRAK4	116.5555	55.58425	48.22126	69.68712
IREB2	38.29682	72.07628	156.7191	83.447
IRF1	799.238	195.4611	401.8438	201.9595
IRF2	124.8809	122.774	309.4197	164.2308
IRF2BP1	147.3595	204.0125	341.5672	138.9304
IRF2BP2	935.7745	1187.426	904.1486	1107.448
IRF2BPL	79.9238	132.5471	811.7245	212.1684
IRF3	2113.818	1012.733	261.1985	574.3639
IRF4	1.665079	0.610816	56.25813	0.887734
IRF5	68.26825	174.6934	538.4707	169.1133
IRF6	566.1269	415.3548	28.12907	281.8556
IRF7	563.6293	520.4152	76.35032	555.2776
IRF8	170.6706	150.2607	369.6963	173.9959
IRF9	627.7348	655.4055	36.16594	616.0874
IRGC	0	0	8.036876	0
IRGM	2.497619	1.221632	8.036876	1.775468
IRGQ	212.2976	213.7856	28.12907	190.419
IRS1	30.80396	72.07628	88.40564	138.9304
IRS2	39.9619	86.12505	88.40564	69.68712
IRS4	0	0	24.11063	0
IRX1	2.497619	1.832448	144.6638	6.214138
IRX2	0	0	64.29501	3.107069
IRX3	65.77063	3.05408	76.35032	7.101872
IRX4	0	0	12.05531	0
IRX5	77.42618	8.551423	132.6085	7.101872
IRX6	0	0	0	0

ISCA1	60.77539	27.48672	0	24.85655
ISCA2	46.62222	171.6393	281.2907	133.604
ISCU	306.3746	258.986	783.5954	221.9335
ISG15	2049.712	1636.987	44.20282	1314.29
ISG20	462.892	328.619	100.461	244.5707
ISG20L2	91.57935	127.0497	44.20282	163.7869
ISL1	0.83254	103.8387	16.07375	41.27963
ISL2	26.64127	3.664896	12.05531	0.887734
ISLR	14.98571	29.92998	377.7332	114.0738
ISLR2	0.83254	2.443264	116.5347	2.663202
ISM1	0	2.443264	100.461	6.658005
ISM2	0	0.610816	0	0.443867
ISOC1	113.2254	59.85996	44.20282	43.49897
ISOC2	851.688	635.8594	446.0466	417.6789
ISPD	7.492856	15.88121	0	16.42308
IST1	899.9753	830.0989	385.7701	666.2444
ISX	0	0	0	0
ISY1	324.6904	105.6712	4.018438	79.89606
ISY1-RAB4:	0	0	0	0
ISYNA1	1133.086	368.322	425.9544	403.919
ITCH	92.41189	190.5746	249.1432	205.5104
ITFG1	77.42618	303.5755	212.9772	216.1632
ITFG2	106.5651	185.0772	8.036876	176.2152
ITFG3	740.1277	569.8913	48.22126	636.5053
ITGA1	45.78968	108.1144	28.12907	115.4054
ITGA10	9.990475	21.98937	16.07375	6.658005
ITGA11	0.83254	3.664896	80.36876	13.75988
ITGA2	48.2873	248.6021	4.018438	242.7953
ITGA2B	4.162698	4.886528	233.0694	7.989606
ITGA3	1460.274	4649.531	96.44251	3192.735
ITGA4	5.827777	3.05408	12.05531	3.550936
ITGA5	72.43094	57.4167	313.4382	160.6799
ITGA6	569.4571	654.1839	112.5163	457.6269
ITGA7	178.996	20.15693	172.7928	43.0551
ITGA8	0	0	20.09219	1.331601
ITGA9	17.48333	13.43795	136.6269	14.20374
ITGAD	0.83254	1.832448	32.1475	5.770271
ITGAE	88.2492	75.74118	4.018438	43.49897
ITGAL	5.827777	9.162239	20.09219	7.989606
ITGAM	30.80396	60.47078	40.18438	95.87528
ITGAV	106.5651	422.6846	80.36876	470.0552
ITGAX	29.13889	9.162239	216.9957	35.95323
ITGB1	84.91904	2164.732	679.116	1696.904
ITGB1BP1	280.5658	288.9159	385.7701	199.7402
ITGB1BP2	13.32063	7.940607	281.2907	4.43867
ITGB1BP3	0	0.610816	8.036876	1.331601
ITGB2	124.8809	497.2042	534.4523	286.2942



ITGB3	3.330158	6.718975	28.12907	17.75468
ITGB3BP	55.78015	94.67647	0	40.3919
ITGB4	2644.978	3813.324	261.1985	2261.946
ITGB5	1218.005	1967.438	1687.744	1383.977
ITGB6	8.325396	145.985	8.036876	172.6643
ITGB7	103.2349	6.10816	586.692	16.42308
ITGB8	44.95714	173.4717	16.07375	190.8628
ITGBL1	4.995237	42.1463	534.4523	170.8888
ITIH1	5.827777	6.10816	4.018438	34.62163
ITIH2	14.98571	18.93529	4.018438	23.08108
ITIH3	0	4.275712	24.11063	15.53535
ITIH4	31.6365	127.6605	0	707.524
ITIH5	0	50.69772	28.12907	50.60084
ITIH6	2.497619	0	8.036876	0
ITK	0	0	0	0
ITLN1	3029.612	3.05408	20.09219	4.43867
ITLN2	4.995237	0.610816	36.16594	3.994803
ITM2A	19.98095	79.40607	759.4848	330.6809
ITM2B	988.2245	2128.694	3986.291	1754.162
ITM2C	418.7674	604.7078	1896.703	844.2351
ITPA	1044.005	1154.442	221.0141	651.1529
ITPK1	1218.838	390.3114	84.3872	199.2963
ITPK1-AS1	4.162698	0	8.036876	0.443867
ITPKA	138.2016	65.96812	12.05531	143.369
ITPKB	29.97142	81.23852	52.23969	83.89087
ITPKC	455.3991	290.1376	24.11063	280.9678
ITPR1	20.81349	44.58956	132.6085	82.1154
ITPR2	23.31111	109.3361	132.6085	64.36072
ITPR3	2126.306	1822.675	357.641	1976.54
ITPRIP	64.10555	0.610816	12.05531	7.989606
ITPRIPL1	0	1.832448	40.18438	4.43867
ITPRIPL2	330.5182	229.6668	438.0097	271.6466
ITSN1	146.527	94.67647	1028.72	141.1497
ITSN2	173.1682	129.493	172.7928	193.526
IVD	300.5468	505.1448	136.6269	603.6591
IVL	0	1.221632	0	0.887734
IVNS1ABP	774.2618	1539.256	1052.831	1016.455
IWS1	243.1016	398.8628	293.346	288.5136
IYD	93.24443	89.78995	0	108.7474
IZUMO1	0.83254	0	0	0
IZUMO2	0	0	0	0
IZUMO4	56.61269	32.98406	36.16594	38.61643
JAG1	370.4801	328.0082	309.4197	262.3254
JAG2	228.9484	197.2936	148.6822	336.0073
JAGN1	365.4849	277.3104	172.7928	183.3171
JAK1	417.9349	695.1086	1040.775	798.0729
JAK2	49.11984	40.92467	148.6822	76.78899

JAK3	44.1246	78.18444	309.4197	123.395
JAKMIP1	4.162698	1.832448	100.461	0.887734
JAKMIP2	0.83254	0.610816	4.018438	0.443867
JAKMIP3	3.330158	4.275712	0	19.97402
JAM2	0.83254	1.832448	56.25813	3.107069
JAM3	30.80396	6.10816	40.18438	9.321207
JARID2	54.94761	43.36793	329.5119	48.82537
JAZF1	49.95237	85.51423	20.09219	57.70271
JAZF1-AS1	4.162698	1.832448	0	0
JDP2	120.7182	89.78995	277.2722	110.9668
JHDM1D	92.41189	57.4167	345.5857	91.43661
JKAMP	162.3452	302.3539	104.4794	217.051
JMJD1C	78.25872	235.1641	446.0466	252.1165
JMJD4	111.5603	142.3201	0	88.7734
JMJD5	39.12936	19.54611	0	27.96362
JMJD6	347.169	236.3858	618.8395	186.868
JMJD7	49.11984	95.8981	40.18438	84.33473
JMJD7-PLA	0	0	0	0
JMJD8	379.638	256.5427	8.036876	209.0614
JMY	14.15317	18.32448	52.23969	39.50416
JOSD1	851.688	623.0323	329.5119	520.2121
JOSD2	357.992	577.2211	429.9729	180.6539
JPH1	50.78491	31.15161	52.23969	38.17256
JPH2	4.995237	9.773055	36.16594	11.09668
JPH3	8.325396	1.221632	24.11063	1.775468
JPH4	3.330158	2.443264	80.36876	0.443867
JPX	2.497619	26.8759	28.12907	21.74948
JRK	235.6087	176.5258	16.07375	182.8732
JRKL	34.96666	105.6712	36.16594	134.0478
JSRP1	9.157935	196.6827	44.20282	167.3379
JTB	2028.899	1399.379	289.3275	999.5885
JUN	288.0587	403.1385	1603.357	649.8213
JUNB	2278.661	1047.549	3122.326	746.1405
JUND	3081.229	621.1998	7176.93	609.8733
JUP	2351.924	3804.773	289.3275	2519.833
KAAG1	2.497619	6.10816	0	0.887734
KAL1	0	10.38387	4.018438	23.52495
KALRN	134.0389	57.4167	120.5531	59.47818
KANK1	74.09602	124.6065	100.461	135.8233
KANK2	174.8333	108.7252	72.33188	134.0478
KANK3	35.7992	17.10285	225.0325	23.08108
KANK4	0.83254	0	0	5.326404
KANSL1	10.82301	48.86528	4.018438	44.3867
KANSL1-AS	0	0	0	0
KANSL1L	51.61745	106.8928	36.16594	97.20688
KANSL2	182.3262	156.9797	506.3232	128.7214
KANSL3	328.0206	286.4727	192.885	354.2059

KARS	1352.044	1028.003	1868.574	705.7486
KAT2A	460.3944	692.0545	446.0466	767.8899
KAT2B	33.30158	23.82182	176.8113	33.73389
KAT5	68.26825	125.8281	156.7191	100.3139
KAT6A	174.8333	97.73055	506.3232	134.0478
KAT6B	45.78968	61.0816	172.7928	110.079
KAT7	29.97142	71.46547	140.6453	115.4054
KAT8	332.1833	208.8991	200.9219	175.3275
KATNA1	99.07221	84.2926	277.2722	55.03951
KATNAL1	21.64603	32.37325	48.22126	28.40749
KATNAL2	29.97142	3.664896	8.036876	19.97402
KATNB1	538.6531	105.0603	180.8297	157.1289
KAZALD1	24.14365	4.275712	56.25813	5.326404
KAZN	46.62222	15.2704	24.11063	28.40749
KBTBD10	6.660317	2.443264	357.641	3.107069
KBTBD11	253.092	183.8556	24.11063	137.5988
KBTBD12	209.8	110.5577	44.20282	109.1913
KBTBD13	0	0	0	0
KBTBD2	243.9341	224.7803	349.6041	237.4689
KBTBD3	33.30158	36.03814	144.6638	14.64761
KBTBD4	11.65555	20.76774	80.36876	22.63722
KBTBD5	0	0	64.29501	0
KBTBD6	9.990475	14.65958	8.036876	19.53015
KBTBD7	0	13.43795	0	15.09148
KBTBD8	8.325396	0	28.12907	1.331601
KC6	0	0	0	0
KCMF1	586.1079	382.9816	1981.09	399.9242
KCNA1	0.83254	0	40.18438	2.219335
KCNA10	0	1.221632	0	0
KCNA2	0	0	16.07375	0.443867
KCNA3	0	0	16.07375	1.331601
KCNA4	0	0	0	0
KCNA5	0	0	0	0
KCNA6	3.330158	0	4.018438	0.887734
KCNA7	0	0	36.16594	1.331601
KCNAB1	31.6365	3.664896	24.11063	8.433473
KCNAB2	23.31111	7.329791	68.31345	37.7287
KCNAB3	35.7992	3.05408	8.036876	10.65281
KCNB1	0	0	20.09219	0.887734
KCNB2	0	0	8.036876	0
KCNC1	0	0.610816	20.09219	0.443867
KCNC2	0.83254	0	48.22126	0.887734
KCNC3	6.660317	1.221632	24.11063	2.663202
KCNC4	53.28253	101.3954	48.22126	63.02912
KCND1	40.79444	92.84402	36.16594	102.9771
KCND2	0.83254	22.60019	16.07375	22.19335
KCND3	4.995237	0	12.05531	0

KCNE1	12.48809	0	0	0
KCNE1L	2.497619	12.21632	0	7.101872
KCNE2	0	1.221632	0	0.887734
KCNE3	998.215	594.3239	16.07375	288.5136
KCNE4	2.497619	3.05408	44.20282	4.43867
KCNF1	0	0	20.09219	0.443867
KCNG1	0	0	24.11063	0.443867
KCNG2	2.497619	4.275712	36.16594	3.994803
KCNG3	1.665079	0	8.036876	1.331601
KCNG4	0	0	24.11063	0
KCNH1	4.162698	3.664896	0	6.214138
KCNH2	81.58888	0.610816	52.23969	12.42828
KCNH3	141.5317	0.610816	20.09219	0.887734
KCNH4	2.497619	0	56.25813	0
KCNH5	0	0	12.05531	1.331601
KCNH6	0	1.221632	32.1475	0.443867
KCNH7	1.665079	0.610816	8.036876	1.775468
KCNH8	87.41666	18.32448	12.05531	42.16737
KCNIP1	1.665079	1.221632	0	6.214138
KCNIP2	23.31111	7.329791	20.09219	10.20894
KCNIP3	3.330158	6.10816	20.09219	12.42828
KCNIP4	0.83254	6.10816	0	2.663202
KCNIP4-IT1	0	0	12.05531	0
KCNJ1	0	0.610816	0	2.663202
KCNJ10	0	4.275712	36.16594	5.326404
KCNJ11	8.325396	3.664896	8.036876	5.326404
KCNJ12	0	0	8.036876	0
KCNJ13	0	3.664896	0	5.770271
KCNJ14	20.81349	17.71366	36.16594	29.73909
KCNJ15	2.497619	13.43795	16.07375	2.663202
KCNJ16	0	0	0	3.107069
KCNJ18	0	0	0	0
KCNJ2	0.83254	10.99469	44.20282	12.42828
KCNJ2-AS1	0	0	0	0.887734
KCNJ3	3.330158	4.275712	16.07375	3.107069
KCNJ4	14.15317	1.832448	28.12907	4.882537
KCNJ5	0.83254	0.610816	12.05531	0.887734
KCNJ6	0	0	8.036876	0
KCNJ8	3.330158	52.53017	148.6822	21.30562
KCNJ9	2.497619	0.610816	16.07375	2.663202
KCNK1	178.1635	525.3017	28.12907	284.5188
KCNK10	28.30635	3.05408	28.12907	0
KCNK12	0.83254	2.443264	44.20282	2.663202
KCNK13	0.83254	0.610816	84.3872	4.882537
KCNK15	41.62698	10.99469	20.09219	43.49897
KCNK16	0	0	4.018438	0
KCNK17	0	3.05408	0	0

KCNK18	0	0	0	0
KCNK2	0	3.664896	24.11063	6.214138
KCNK3	0.83254	2.443264	20.09219	7.545739
KCNK4	0	0	24.11063	0.443867
KCNK5	306.3746	1543.532	20.09219	765.6706
KCNK6	122.3833	197.2936	8.036876	141.5936
KCNK7	64.10555	6.718975	12.05531	7.101872
KCNK9	0	0	0	0.887734
KCNMA1	19.98095	23.82182	144.6638	20.41788
KCNMB1	14.15317	0.610816	24.11063	0.443867
KCNMB2	0	0	0	1.331601
KCNMB3	15.81825	11.6055	0	24.85655
KCNMB4	12.48809	23.21101	48.22126	40.3919
KCNN1	0.83254	3.05408	28.12907	4.882537
KCNN2	0	0	88.40564	0.887734
KCNN3	3.330158	0.610816	72.33188	1.775468
KCNN4	1949.808	3475.543	144.6638	1226.405
KCNQ1	704.3285	6.718975	44.20282	90.105
KCNQ1DN	0	0	0	0
KCNQ1OT1	54.94761	58.02752	20.09219	53.26404
KCNQ2	0	0	8.036876	0.443867
KCNQ3	9.990475	2.443264	20.09219	2.663202
KCNQ4	29.97142	13.43795	32.1475	9.765074
KCNQ5	0	1.221632	40.18438	7.101872
KCNRG	0	4.886528	0	3.107069
KCNS1	7.492856	33.59488	20.09219	103.421
KCNS2	0	1.221632	20.09219	1.331601
KCNS3	77.42618	72.6871	24.11063	240.1321
KCNT1	0	0	12.05531	1.331601
KCNT2	0.83254	16.49203	36.16594	12.87214
KCNU1	0	1.221632	0	1.331601
KCNV1	0	0	0	0
KCNV2	2.497619	0	16.07375	0.887734
KCP	283.896	357.9381	100.461	467.8358
KCTD1	230.6135	132.5471	96.44251	110.5229
KCTD10	284.7285	154.5364	297.3644	230.367
KCTD11	114.8905	83.68179	112.5163	130.4969
KCTD12	17.48333	7.329791	409.8807	35.50936
KCTD13	154.8524	98.34137	200.9219	111.4106
KCTD14	3.330158	6.718975	0	5.770271
KCTD15	175.6659	229.6668	60.27657	126.5021
KCTD16	0	0	0	0
KCTD17	141.5317	89.17913	208.9588	91.43661
KCTD18	54.11507	122.774	24.11063	83.89087
KCTD19	0	0.610816	0	0.443867
KCTD2	339.6761	281.5862	462.1204	280.524
KCTD20	20.81349	107.5036	60.27657	163.3431

KCTD21	59.11031	83.68179	40.18438	108.7474
KCTD3	213.1301	466.0526	36.16594	375.9554
KCTD4	0	0	4.018438	0
KCTD5	323.0254	177.7474	88.40564	205.5104
KCTD6	47.45476	26.26509	144.6638	48.3815
KCTD7	42.45952	69.0222	28.12907	83.00313
KCTD8	0	0	8.036876	0
KCTD9	19.14841	36.64896	28.12907	45.7183
KDELC1	14.98571	9.162239	60.27657	17.31081
KDELC2	72.43094	200.3476	56.25813	165.1185
KDELR1	1352.877	2059.671	916.2039	1486.067
KDELR2	2064.698	2134.802	550.526	2063.982
KDELR3	105.7325	322.5108	148.6822	254.3358
KDM1A	616.9118	455.6687	795.6507	388.3836
KDM1B	11.65555	37.87059	4.018438	38.61643
KDM2A	783.4197	517.9719	558.5629	899.7184
KDM2B	129.8762	58.02752	108.4978	93.21207
KDM3A	444.5761	273.0347	679.116	343.1092
KDM3B	248.0968	251.6562	293.346	254.7797
KDM4A	197.3119	175.915	229.051	257.8867
KDM4B	271.4079	113.6118	80.36876	153.578
KDM4C	159.0151	179.5799	64.29501	224.5967
KDM4D	4.995237	3.05408	0	6.214138
KDM4DL	0	0	0	0
KDM5A	178.1635	414.1332	168.7744	348.8795
KDM5B	206.4698	268.1482	269.2353	455.8514
KDM5B-AS	34.13412	25.65427	16.07375	32.84616
KDM5C	431.2555	227.2235	582.6735	613.4242
KDM5D	79.9238	3.05408	48.22126	12.87214
KDM6A	96.57459	61.0816	365.6779	90.54887
KDM6B	144.0293	79.40607	265.2169	174.4397
KDR	8.325396	20.15693	176.8113	56.37111
KDSR	54.11507	130.1038	229.051	143.369
KEAP1	636.8928	321.9	249.1432	214.8316
KEL	4.162698	0	0	3.994803
KERA	0	0	0	0
KGFLP1	0	0	0	0
KGFLP2	2.497619	5.497344	12.05531	4.882537
KHDC1	14.15317	11.6055	4.018438	12.87214
KHDC1L	0.83254	0.610816	0	0.443867
KHDRBS1	488.7007	609.5943	1498.877	465.6165
KHDRBS2	0.83254	0.610816	40.18438	0
KHDRBS3	99.07221	8.551423	164.756	6.658005
KHK	58.27777	17.10285	317.4566	12.87214
KHNYN	496.1936	586.9941	60.27657	559.7163
KHSRP	475.3801	199.126	164.756	248.1217
KIAA0020	279.7333	448.9497	518.3785	197.9647

KIAA0040	174.8333	216.8397	68.31345	102.9771
KIAA0087	0	0	4.018438	0
KIAA0090	171.5032	329.8406	76.35032	355.5375
KIAA0100	892.4824	1249.119	1772.131	1347.136
KIAA0101	84.91904	238.829	24.11063	200.184
KIAA0125	0	0	16.07375	0
KIAA0141	433.7531	216.8397	52.23969	217.4948
KIAA0146	344.6714	223.5586	20.09219	156.2412
KIAA0182	237.2738	177.1366	233.0694	279.1924
KIAA0195	521.1698	384.8141	257.18	432.3265
KIAA0196	138.2016	262.6509	301.3829	202.4034
KIAA0226	258.9198	122.1632	68.31345	137.5988
KIAA0226L	2.497619	0.610816	4.018438	0.443867
KIAA0232	202.3071	191.1854	317.4566	227.7038
KIAA0240	39.9619	46.42201	120.5531	59.47818
KIAA0247	203.1397	307.8512	148.6822	383.945
KIAA0284	2431.016	1421.98	60.27657	1577.503
KIAA0317	125.7135	225.3911	108.4978	245.4585
KIAA0319	43.29206	40.92467	4.018438	25.74429
KIAA0319L	495.361	638.3027	112.5163	607.6539
KIAA0355	82.42142	83.07097	245.1247	110.5229
KIAA0368	785.0848	463.6093	1579.246	411.0209
KIAA0391	80.75634	114.2226	44.20282	70.57486
KIAA0408	0	0	0	0
KIAA0415	1036.512	384.8141	132.6085	470.9429
KIAA0430	190.6516	213.7856	92.42408	223.2651
KIAA0494	303.8769	373.8194	116.5347	321.8036
KIAA0513	202.3071	100.1738	28.12907	208.6175
KIAA0528	213.9627	233.9425	40.18438	208.1736
KIAA0556	334.6809	185.688	12.05531	247.2339
KIAA0564	28.30635	103.8387	108.4978	77.67673
KIAA0586	38.29682	35.42733	4.018438	28.40749
KIAA0664	1476.925	510.0313	128.59	656.4793
KIAA0664L	27.47381	17.71366	0	42.16737
KIAA0748	0	0	40.18438	0.887734
KIAA0753	76.59364	100.7846	4.018438	132.7162
KIAA0754	11.65555	56.19507	12.05531	24.41269
KIAA0825	4.162698	12.82714	16.07375	4.43867
KIAA0889	25.80873	77.57363	136.6269	64.80458
KIAA0895	29.97142	78.18444	4.018438	63.47298
KIAA0895L	346.3365	134.9903	20.09219	182.4293
KIAA0907	351.3317	193.6287	200.9219	371.5167
KIAA0913	446.2412	438.5659	1414.49	804.7309
KIAA0922	49.95237	14.65958	116.5347	42.16737
KIAA0930	409.6095	442.2308	1390.38	316.4772
KIAA0947	139.0341	229.056	88.40564	178.8784
KIAA1009	64.93809	39.09222	44.20282	43.0551

KIAA1024	2.497619	4.886528	12.05531	10.20894
KIAA1033	31.6365	70.85465	28.12907	77.23286
KIAA1045	0.83254	1.832448	20.09219	3.994803
KIAA1107	3.330158	11.6055	0	15.53535
KIAA1109	117.3881	258.986	241.1063	309.8192
KIAA1143	50.78491	45.20038	68.31345	37.7287
KIAA1147	153.1873	284.6402	36.16594	264.1009
KIAA1161	79.09126	78.18444	12.05531	66.58005
KIAA1191	199.8095	276.6996	88.40564	254.7797
KIAA1199	28.30635	45.20038	0	80.33993
KIAA1210	1.665079	0	0	0
KIAA1211	27.47381	64.74649	20.09219	23.96882
KIAA1217	231.446	260.8184	156.7191	373.736
KIAA1239	4.162698	1.221632	8.036876	2.219335
KIAA1244	122.3833	145.3742	52.23969	156.6851
KIAA1257	17.48333	2.443264	0	3.994803
KIAA1274	9.157935	14.65958	72.33188	18.64241
KIAA1279	59.11031	169.8068	281.2907	190.419
KIAA1324	42.45952	191.7962	56.25813	64.36072
KIAA1324L	30.80396	1.221632	8.036876	1.775468
KIAA1328	11.65555	4.275712	16.07375	11.98441
KIAA1377	44.1246	63.52486	4.018438	57.25885
KIAA1383	13.32063	46.42201	0	47.93764
KIAA1407	164.0103	98.34137	12.05531	99.87008
KIAA1429	248.0968	298.689	470.1573	296.0593
KIAA1430	42.45952	70.85465	12.05531	80.7838
KIAA1432	53.28253	75.74118	96.44251	112.2984
KIAA1456	0	56.80588	0	52.82018
KIAA1462	7.492856	6.10816	8.036876	9.765074
KIAA1467	2.497619	20.76774	8.036876	39.0603
KIAA1468	98.23967	125.2173	184.8482	179.7661
KIAA1522	2798.998	2088.38	265.2169	1868.68
KIAA1524	43.29206	61.0816	20.09219	59.47818
KIAA1530	60.77539	76.96281	20.09219	211.2807
KIAA1549	52.44999	175.3042	52.23969	151.3587
KIAA1586	2.497619	6.718975	0	7.989606
KIAA1598	137.369	153.9256	494.2679	155.7973
KIAA1609	87.41666	206.4558	0	193.526
KIAA1614	4.995237	7.940607	4.018438	6.214138
KIAA1644	0	2.443264	12.05531	3.550936
KIAA1656	133.2063	40.31385	0	42.16737
KIAA1671	228.1158	252.8778	32.1475	128.2776
KIAA1683	36.63174	10.38387	0	10.65281
KIAA1704	45.78968	62.91404	128.59	38.17256
KIAA1715	30.80396	69.63302	4.018438	55.03951
KIAA1731	127.3786	155.1473	16.07375	115.8493
KIAA1737	67.43571	86.73587	56.25813	77.67673



KIAA1751	4.162698	1.221632	4.018438	1.331601
KIAA1755	0	0.610816	0	1.331601
KIAA1797	224.7857	259.5968	188.8666	210.393
KIAA1804	34.13412	62.30323	8.036876	65.69232
KIAA1826	10.82301	53.7518	44.20282	54.15178
KIAA1841	56.61269	45.8112	112.5163	42.61123
KIAA1875	129.0436	18.32448	0	31.07069
KIAA1908	6.660317	51.91936	0	59.03431
KIAA1919	9.990475	10.38387	0	15.97921
KIAA1958	4.162698	5.497344	52.23969	5.770271
KIAA1967	577.7825	860.0289	377.7332	825.1488
KIAA1984	87.41666	36.64896	0	22.19335
KIAA2013	890.8173	366.4896	265.2169	313.814
KIAA2018	61.60793	47.64364	104.4794	49.26924
KIAA2022	0	0	20.09219	0
KIAA2026	39.12936	76.96281	100.461	90.54887
KIDINS220	58.27777	146.5958	84.3872	209.0614
KIF11	128.2111	88.56831	24.11063	55.48338
KIF12	377.1404	1354.179	20.09219	884.627
KIF13A	74.09602	105.6712	84.3872	100.7578
KIF13B	307.2071	980.3596	48.22126	834.0261
KIF14	48.2873	53.7518	4.018438	36.3971
KIF15	57.44523	52.53017	4.018438	31.95843
KIF16B	33.30158	64.13568	68.31345	74.56966
KIF17	9.157935	0	12.05531	0.443867
KIF18A	12.48809	26.8759	0	21.30562
KIF18B	21.64603	67.18975	32.1475	55.03951
KIF19	0.83254	0.610816	32.1475	2.663202
KIF1A	18.31587	3.05408	104.4794	14.64761
KIF1B	99.90475	189.3529	361.6594	207.2859
KIF1C	824.2142	689.0004	2125.754	876.1935
KIF20A	159.8476	112.3901	24.11063	73.68193
KIF20B	31.6365	47.03283	24.11063	25.30042
KIF21A	69.10078	69.63302	32.1475	57.70271
KIF21B	173.1682	25.04345	80.36876	49.71311
KIF22	1156.397	500.2583	56.25813	320.472
KIF23	87.41666	193.6287	32.1475	210.8368
KIF24	60.77539	51.30854	12.05531	77.67673
KIF25	3.330158	1.221632	0	4.882537
KIF26A	1.665079	0.610816	32.1475	4.882537
KIF26B	55.78015	35.42733	60.27657	58.14658
KIF27	19.14841	4.275712	4.018438	7.989606
KIF2A	87.41666	138.0444	212.9772	132.2724
KIF2B	0	1.221632	4.018438	0
KIF2C	658.5388	341.4461	24.11063	252.1165
KIF3A	49.11984	29.31917	152.7006	34.17776
KIF3B	486.2031	601.6537	160.7375	462.5094

KIF3C	13.32063	31.15161	88.40564	41.7235
KIF4A	169.0055	310.2945	16.07375	207.2859
KIF4B	2.497619	0.610816	4.018438	3.107069
KIF5A	4.162698	1.221632	48.22126	3.107069
KIF5B	311.3698	755.5793	353.6225	593.4502
KIF5C	4.995237	4.275712	56.25813	5.326404
KIF6	0	0	8.036876	0.887734
KIF7	59.94285	20.76774	28.12907	59.92205
KIF9	427.0928	106.282	12.05531	43.49897
KIFAP3	81.58888	219.8937	92.42408	134.0478
KIFC1	0	1.221632	4.018438	0.443867
KIFC2	1030.684	942.489	44.20282	743.0334
KIFC3	287.2262	353.6624	212.9772	851.7808
KIN	58.27777	121.5524	216.9957	85.22247
KIR2DL1	0	0	0	0
KIR2DL2	0	0	0	0
KIR2DL3	0	0	0	0
KIR2DL4	0	0	0	0
KIR2DL5A	0	0	0	0
KIR2DL5B	0	0	0	0
KIR2DS1	0	0	0	0
KIR2DS2	0	0	0	0
KIR2DS3	0	0	0	0
KIR2DS4	0	0	0	0
KIR2DS5	0	0	0	0
KIR3DL1	0	0	0	0
KIR3DL2	0	1.221632	0	0
KIR3DL3	0	0	0	0
KIR3DS1	0	0	0	0
KIR3DX1	0	0	0	0
KIRREL	0	9.773055	20.09219	9.321207
KIRREL2	0	0	0	1.331601
KIRREL3	0	1.221632	4.018438	2.219335
KIRREL3-A <sup>5</sup>	0	0.610816	0	0
KISS1	10.82301	3.05408	4.018438	9.765074
KISS1R	1.665079	3.05408	48.22126	2.219335
KIT	1.665079	2.443264	28.12907	2.663202
KITLG	86.58412	48.86528	68.31345	45.27444
KL	0	0.610816	0	0
KLB	0.83254	1.221632	4.018438	0.443867
KLC1	350.4992	382.3708	695.1898	415.0157
KLC2	249.7619	75.13036	233.0694	157.5728
KLC3	29.97142	35.42733	180.8297	33.73389
KLC4	552.8063	320.0676	940.3145	291.6206
KLF1	0	0.610816	12.05531	0
KLF10	31.6365	74.51955	116.5347	141.5936
KLF11	81.58888	51.91936	40.18438	52.82018

KLF12	23.31111	8.551423	40.18438	9.321207
KLF13	202.3071	443.4524	389.7885	478.4886
KLF14	0	0	20.09219	0.443867
KLF15	0.83254	5.497344	32.1475	5.326404
KLF16	950.7602	164.3095	40.18438	162.4553
KLF17	0	1.221632	0	0.443867
KLF2	340.5087	132.5471	675.0976	83.00313
KLF3	149.8571	141.7093	176.8113	208.6175
KLF4	306.3746	105.0603	1149.273	141.1497
KLF5	429.5904	510.6421	60.27657	261.4377
KLF6	755.9459	654.1839	1305.992	386.6082
KLF7	9.157935	29.92998	28.12907	31.07069
KLF8	0.83254	5.497344	8.036876	23.96882
KLF9	57.44523	8.551423	972.462	30.62682
KLHDC1	2.497619	7.940607	36.16594	5.326404
KLHDC10	151.5222	181.4123	333.5304	242.7953
KLHDC2	178.1635	431.2361	598.7473	280.524
KLHDC3	1471.097	437.955	823.7798	517.1051
KLHDC4	483.7055	156.9797	128.59	163.7869
KLHDC5	49.95237	141.7093	36.16594	156.6851
KLHDC7A	40.79444	47.64364	0	74.12579
KLHDC7B	0	232.1101	0	331.1248
KLHDC8A	0.83254	0	4.018438	1.775468
KLHDC8B	18.31587	67.18975	168.7744	89.21727
KLHDC9	37.46428	64.13568	24.11063	43.0551
KLHL1	0	0.610816	0	0
KLHL10	3.330158	0	32.1475	0.443867
KLHL11	0	2.443264	12.05531	5.326404
KLHL12	74.09602	232.1101	36.16594	173.1081
KLHL13	0.83254	10.99469	221.0141	11.09668
KLHL14	0	1.221632	4.018438	0.443867
KLHL15	7.492856	12.21632	88.40564	14.64761
KLHL17	321.3603	141.0985	92.42408	166.0063
KLHL18	141.5317	65.35731	72.33188	86.1102
KLHL2	90.74681	97.11974	208.9588	135.8233
KLHL20	14.15317	42.1463	76.35032	57.25885
KLHL21	292.2214	193.0178	32.1475	216.6071
KLHL22	26.64127	162.477	349.6041	116.737
KLHL23	0	2.443264	0	2.663202
KLHL24	81.58888	36.64896	88.40564	58.59045
KLHL25	74.92856	95.28729	64.29501	89.66114
KLHL26	55.78015	34.81651	28.12907	43.0551
KLHL28	17.48333	19.54611	76.35032	23.08108
KLHL29	79.9238	39.70304	88.40564	73.23806
KLHL3	105.7325	33.59488	28.12907	63.02912
KLHL30	14.15317	5.497344	12.05531	15.97921
KLHL31	13.32063	6.718975	28.12907	11.54054

KLHL32	0	0	12.05531	0
KLHL33	0	2.443264	24.11063	1.775468
KLHL34	0	0	12.05531	0
KLHL35	26.64127	17.71366	16.07375	11.54054
KLHL36	103.2349	140.4877	216.9957	142.0374
KLHL38	0	0	16.07375	0.887734
KLHL4	0	0	20.09219	0.443867
KLHL5	41.62698	179.5799	56.25813	230.367
KLHL6	12.48809	10.99469	96.44251	21.74948
KLHL7	33.30158	97.73055	132.6085	71.01872
KLHL7-AS1	1.665079	2.443264	0	1.331601
KLHL8	12.48809	20.15693	56.25813	20.86175
KLHL9	65.77063	11.6055	241.1063	25.30042
KLK1	100.7373	6.718975	4.018438	2.663202
KLK10	1321.24	2836.018	24.11063	896.1675
KLK11	1167.22	1498.332	16.07375	763.0074
KLK12	4.162698	3.664896	4.018438	6.214138
KLK13	1.665079	25.04345	0	7.545739
KLK14	4.162698	2.443264	0	10.65281
KLK15	0	0	0	0
KLK2	0	0	4.018438	0
KLK3	3.330158	0	0	0
KLK4	0	0	0	0.443867
KLK5	0.83254	31.76243	0	62.58525
KLK6	34.96666	6226.658	16.07375	4125.3
KLK7	43.29206	330.4514	0	180.21
KLK8	28.30635	745.8063	48.22126	159.3483
KLK9	0	9.162239	4.018438	4.43867
KLKB1	64.93809	17.10285	96.44251	44.83057
KLKP1	0	0	0	0
KLLN	4.162698	1.832448	20.09219	2.219335
KLRAP1	0	4.275712	0	17.75468
KLRB1	0	0	0	0.887734
KLRC1	0	0	0	1.331601
KLRC2	0	0	0	2.219335
KLRC3	0	0	0	3.550936
KLRC4	0	0	0	1.331601
KLRC4-KLR	0	0	0	0
KLRD1	0	0.610816	0	0.443867
KLRF1	2.497619	0	0	0
KLRF2	0	0	0	0
KLRG1	0	4.275712	4.018438	3.994803
KLRG2	0	0	0	0.443867
KLRK1	0	0	0	0
KMO	0	7.329791	4.018438	54.15178
KNCN	0	0	0	0.443867
KNDC1	58.27777	1.221632	4.018438	4.882537

KNG1	4.995237	0.610816	0	7.545739
KNTC1	203.1397	122.774	4.018438	134.4917
KPNA1	402.9492	226.0019	164.756	222.3774
KPNA2	735.1324	603.4862	68.31345	283.1872
KPNA3	48.2873	58.63833	313.4382	82.55927
KPNA4	253.9246	236.3858	454.0835	229.9231
KPNA5	0	6.718975	0	6.214138
KPNA6	226.4508	304.1863	192.885	291.1768
KPNA7	14.15317	32.37325	0	19.53015
KPNB1	318.8627	1176.432	908.167	960.0844
KPRP	0	0	0	0
KPTN	84.0865	283.4186	148.6822	145.5884
KRAS	111.5603	208.8991	293.346	205.5104
KRBA1	0	43.36793	0	71.01872
KRBA2	0	6.10816	4.018438	6.658005
KRBOX1	59.94285	101.3954	0	75.90126
KRCC1	203.9722	236.3858	277.2722	177.5468
KREMEN1	74.09602	59.24915	96.44251	74.56966
KREMEN2	96.57459	26.8759	4.018438	57.70271
KRI1	373.8103	169.8068	96.44251	152.6903
KRIT1	89.91427	113.001	108.4978	134.0478
KRR1	34.13412	59.24915	60.27657	47.93764
KRT1	0	0	0	0
KRT10	120.7182	359.7706	104.4794	282.7433
KRT12	0.83254	1.832448	4.018438	3.107069
KRT13	24.14365	21.98937	140.6453	30.62682
KRT14	4.995237	1.832448	36.16594	8.433473
KRT15	203.1397	511.8638	32.1475	480.2641
KRT16	39.9619	423.9063	24.11063	223.709
KRT16P2	4.995237	1.832448	0	3.994803
KRT16P3	7.492856	1.221632	0	0.443867
KRT17	906.6356	1657.754	84.3872	1031.103
KRT18	13314.81	6322.556	116.5347	3660.127
KRT18P55	12.48809	0	0	1.331601
KRT19	19846.08	55898.82	542.4891	20551.93
KRT19P2	0	0	0	0.443867
KRT2	4.995237	0	12.05531	0
KRT20	8.325396	4.275712	20.09219	8.433473
KRT222	0	1.832448	16.07375	1.775468
KRT23	966.5784	411.0791	84.3872	841.5719
KRT24	0	0	12.05531	0.887734
KRT25	0	0	12.05531	0
KRT26	0.83254	0	4.018438	0.887734
KRT27	0	0.610816	8.036876	0.443867
KRT28	0	0	0	0
KRT3	0	0	16.07375	2.663202
KRT31	0	0	4.018438	1.775468

KRT32	0	0	0	0.443867
KRT33A	0	0	0	0.443867
KRT33B	0	0	0	0
KRT34	0	0	16.07375	0.443867
KRT35	0	0	0	0
KRT36	0	0	44.20282	1.331601
KRT37	0	0	4.018438	0.887734
KRT38	0	0	8.036876	0
KRT39	0	0	0	0
KRT4	14.15317	5.497344	52.23969	28.40749
KRT40	0.83254	3.664896	0	4.43867
KRT42P	2.497619	4.886528	0	2.663202
KRT5	32.46904	21.37856	168.7744	29.73909
KRT6A	6.660317	9.773055	80.36876	19.97402
KRT6B	18.31587	155.7581	8.036876	75.01353
KRT6C	0	0	16.07375	0.887734
KRT7	4658.059	9220.878	112.5163	7222.604
KRT71	0	0	8.036876	0.443867
KRT72	4.162698	0	4.018438	0
KRT73	0.83254	0	0	0
KRT74	0	0	12.05531	0
KRT75	0	0	4.018438	0
KRT76	0	0.610816	0	0
KRT77	0	0.610816	16.07375	0
KRT78	0	4.886528	4.018438	5.770271
KRT79	2.497619	6.718975	4.018438	13.75988
KRT8	22174.69	21187.98	309.4197	9015.827
KRT80	78.25872	213.1748	12.05531	390.603
KRT81	0.83254	137.4336	0	67.02392
KRT82	0	0	0	0
KRT83	0	3.664896	8.036876	3.994803
KRT84	0	0	0	0.443867
KRT85	1.665079	0	8.036876	1.331601
KRT86	0	7.329791	4.018438	12.42828
KRT8P41	0	3.05408	0	0.443867
KRT9	0	3.664896	4.018438	2.219335
KRTAP1-1	0	0	4.018438	0
KRTAP1-3	0	0	12.05531	0.443867
KRTAP1-5	0	0	0	0
KRTAP10-1	0	0	0	0
KRTAP10-1	0	0	8.036876	0
KRTAP10-1	0	0	8.036876	0.443867
KRTAP10-1	0	0	0	0
KRTAP10-2	4.162698	1.221632	40.18438	1.775468
KRTAP10-3	0	0	8.036876	0
KRTAP10-4	0	0	16.07375	0
KRTAP10-5	0	0	0	0

KRTAP10-6	0	0	16.07375	0
KRTAP10-7	0	0	0	0
KRTAP10-8	0	0	12.05531	0
KRTAP10-9	0	0	0	0
KRTAP11-1	0	0	0	0
KRTAP12-1	0	0	0	0
KRTAP12-2	0	0	4.018438	0
KRTAP12-3	0	0	0	0
KRTAP12-4	0	0	0	0
KRTAP13-1	0	0	0	0
KRTAP13-2	0	0	0	0
KRTAP13-3	0	0	4.018438	0
KRTAP13-4	0	0	0	0
KRTAP15-1	0	0	0	0
KRTAP16-1	0.83254	0	4.018438	0
KRTAP17-1	0	0	0	0
KRTAP19-1	0	0	0	0
KRTAP19-2	0	0	0	0
KRTAP19-3	0	0	8.036876	0
KRTAP19-4	0	0	0	0
KRTAP19-5	0	0	0	0
KRTAP19-6	0	0	0	0
KRTAP19-7	0	0	0	0
KRTAP19-8	0	0	0	0
KRTAP2-1	0	0	0	0
KRTAP2-2	0	0	0	0
KRTAP2-4	0	0	0	0
KRTAP20-1	0	0	0	0
KRTAP20-2	0	0	12.05531	0
KRTAP20-3	0	0	0	0
KRTAP20-4	0	0	0	0
KRTAP21-1	0	0	0	0
KRTAP21-2	0	0	0	0
KRTAP21-3	0	0	0	0
KRTAP22-1	0	0	0	0
KRTAP22-2	0	0	0	0
KRTAP23-1	0	0	0	0
KRTAP24-1	0	0	0	0
KRTAP25-1	0	0	0	0
KRTAP26-1	0	0	0	0
KRTAP27-1	0	0	0	0
KRTAP3-1	0	0	4.018438	0
KRTAP3-2	0	0	0	2.219335
KRTAP3-3	0	0	12.05531	0
KRTAP4-1	0	3.05408	8.036876	0
KRTAP4-11	0	0	0	0
KRTAP4-12	0	0	24.11063	0

KRTAP4-2	0	0	0	0
KRTAP4-3	0	0	0	0
KRTAP4-4	0	0	0	0
KRTAP4-5	0	0	8.036876	0
KRTAP4-6	0	0	0	0.443867
KRTAP4-7	0	0	0	0
KRTAP4-8	0	0	4.018438	0.443867
KRTAP4-9	0	0	0	0
KRTAP5-1	16.65079	4.886528	12.05531	5.326404
KRTAP5-10	3.330158	0	4.018438	0.887734
KRTAP5-11	0	0	24.11063	0
KRTAP5-2	0	0	0	0
KRTAP5-3	0	0	16.07375	0
KRTAP5-4	0	0	0	0
KRTAP5-5	0	0	0	0
KRTAP5-6	0	0	0	0
KRTAP5-7	0	0.610816	60.27657	0
KRTAP5-8	4.995237	3.05408	4.018438	2.219335
KRTAP5-9	4.995237	0	8.036876	1.331601
KRTAP6-1	0	0	0	0
KRTAP6-2	0	0	0	0
KRTAP6-3	0.83254	0	4.018438	0
KRTAP7-1	0	0	0	0
KRTAP8-1	0	0	0	0
KRTAP9-1	0	0	0	0
KRTAP9-2	0	0	4.018438	0.443867
KRTAP9-3	0	0	0	0
KRTAP9-4	0	0	4.018438	0
KRTAP9-8	0	0	0	0
KRTAP9-9	0	0	0	0
KRTCAP2	873.334	812.996	1454.675	693.3203
KRTCAP3	850.0229	809.3311	48.22126	379.5063
KRTDAP	0	0	4.018438	1.775468
KSR1	8.325396	24.43264	28.12907	77.23286
KSR2	0.83254	2.443264	44.20282	0.887734
KTI12	94.90951	53.14099	76.35032	54.15178
KTN1	283.896	655.4055	257.18	574.8078
KTN1-AS1	0.83254	7.329791	0	3.107069
KXD1	757.611	375.041	120.5531	328.0177
KY	9.990475	0	28.12907	1.331601
KYNU	174.8333	307.8512	0	340.8899
L1CAM	2.497619	75.13036	20.09219	71.46259
L1TD1	0.83254	0	0	0
L2HGDH	17.48333	26.26509	8.036876	16.86695
L3MBTL1	77.42618	36.03814	20.09219	40.83577
L3MBTL2	441.246	327.3974	88.40564	272.0905
L3MBTL3	7.492856	43.36793	36.16594	43.0551



L3MBTL4	28.30635	0.610816	0	0
LACC1	9.157935	28.70835	40.18438	28.40749
LACE1	20.81349	5.497344	32.1475	11.54054
LACRT	0	0	0	0
LACTB	55.78015	133.7687	421.936	111.8545
LACTB2	91.57935	182.634	28.12907	130.9408
LAD1	2725.735	6368.978	76.35032	4054.725
LAG3	37.46428	5.497344	44.20282	23.96882
LAGE3	380.4706	449.5605	176.8113	323.5791
LAIR1	0.83254	0	0	1.331601
LAIR2	22.47857	0	0	0
LALBA	0	0	0	0
LAMA1	0	9.162239	8.036876	7.101872
LAMA2	19.14841	26.26509	550.526	72.35032
LAMA3	292.2214	298.0782	36.16594	331.5687
LAMA4	34.13412	191.7962	1181.421	285.8504
LAMA5	1041.507	2544.048	88.40564	3042.708
LAMB1	222.2881	1056.712	1872.592	998.2569
LAMB2	541.1507	686.5571	1462.711	1102.122
LAMB2P1	8.325396	3.05408	4.018438	3.107069
LAMB3	2277.828	3280.692	88.40564	3057.356
LAMB4	1.665079	4.886528	0	10.65281
LAMC1	221.4555	976.6947	763.5032	911.259
LAMC2	850.8554	2073.72	72.33188	1856.252
LAMC3	0	0	16.07375	1.775468
LAMP1	1564.342	1392.66	2182.012	1155.83
LAMP2	208.9674	1178.875	1305.992	863.7652
LAMP3	43.29206	31.76243	4.018438	50.60084
LAMP5	36.63174	18.93529	0	13.75988
LAMTOR1	531.9928	780.6228	3588.465	668.0199
LAMTOR2	616.0793	774.5146	3222.787	493.1363
LAMTOR3	109.0627	232.1101	333.5304	173.1081
LANCL1	67.43571	73.90873	301.3829	71.01872
LANCL2	120.7182	89.78995	48.22126	91.43661
LANCL3	5.827777	2.443264	0	2.219335
LAP3	313.8674	510.6421	518.3785	406.5822
LAPTM4A	842.5301	1360.287	3311.193	1287.658
LAPTM4B	1223.833	1046.939	52.23969	700.4222
LAPTM5	4.162698	13.43795	116.5347	51.04471
LARGE	136.5365	212.564	92.42408	82.55927
LARP1	954.9229	700.6059	417.9176	873.9742
LARP1B	76.59364	65.35731	56.25813	82.1154
LARP4	64.10555	61.0816	20.09219	86.1102
LARP4B	654.3761	582.1076	305.4013	628.9596
LARP6	17.48333	86.73587	120.5531	134.4917
LARP7	201.4746	309.0729	120.5531	203.735
LARS	438.7484	456.8903	450.0651	362.1955

LARS2	106.5651	67.18975	32.1475	51.93244
LAS1L	247.2643	592.4915	253.1616	209.5052
LASP1	1906.516	1885.589	361.6594	1581.498
LAT	232.2785	25.65427	96.44251	54.15178
LAT2	15.81825	26.8759	76.35032	75.45739
LATS1	4.995237	14.04877	52.23969	19.97402
LATS2	30.80396	32.37325	160.7375	62.14138
LAX1	0.83254	2.443264	4.018438	0.443867
LAYN	0.83254	6.718975	68.31345	10.20894
LBH	278.0682	218.0613	847.8904	205.0666
LBP	3.330158	5.497344	80.36876	33.73389
LBR	275.5706	263.2617	20.09219	185.9803
LBX1	0	0	0	0
LBX2	17.48333	12.82714	8.036876	8.87734
LCA5	5.827777	15.2704	8.036876	14.64761
LCA5L	0	1.832448	0	5.326404
LCAT	120.7182	24.43264	8.036876	47.0499
LCE1A	0	0	4.018438	0
LCE1B	0	0	0	0
LCE1C	9.157935	0	0	0
LCE1D	0	0	12.05531	0
LCE1E	54.94761	0	4.018438	0
LCE1F	0	0	28.12907	0
LCE2A	0	0	0	0
LCE2B	0	0	4.018438	0
LCE2C	0	0	0	0
LCE2D	0	0	0	0
LCE3A	0	0	0	0
LCE3B	0	0	0	0
LCE3C	0	0	0	0
LCE3D	0	0.610816	0	0
LCE3E	0	0	0	0
LCE4A	0	0	0	0
LCE5A	0.83254	0	4.018438	0
LCE6A	0	0	0	0
LCK	70.76586	8.551423	462.1204	21.74948
LCLAT1	75.7611	54.36262	12.05531	52.82018
LCMT1	287.2262	240.0507	349.6041	185.5364
LCMT2	7.492856	65.35731	68.31345	79.4522
LCN1	0	0	0	0
LCN10	0	0	4.018438	0.443867
LCN12	3.330158	6.718975	0	8.433473
LCN15	0	0	0	0
LCN2	22199.67	3479.818	650.987	22508.05
LCN6	0	0	0	0
LCN8	0	0	0	0
LCN9	0	0	0	0

LCNL1	0	0	0	2.663202
LCOR	49.11984	42.75712	140.6453	47.0499
LCORL	8.325396	17.71366	12.05531	20.86175
LCP1	35.7992	25.65427	281.2907	110.079
LCP2	19.98095	17.10285	229.051	19.53015
LCT	0	0	24.11063	0.887734
LCTL	0	0	8.036876	3.107069
LDB1	289.7238	213.1748	2559.745	427.0001
LDB2	3.330158	2.443264	225.0325	17.31081
LDB3	0	2.443264	237.0878	0.443867
LDHA	3480.015	2044.401	691.1713	1298.755
LDHAL6A	13.32063	7.940607	132.6085	8.87734
LDHAL6B	1.665079	2.443264	52.23969	7.101872
LDHB	26.64127	638.9135	257.18	127.8337
LDHC	13.32063	4.275712	0	1.331601
LDHD	126.546	23.82182	16.07375	21.74948
LDLR	758.4436	331.6731	32.1475	177.9907
LDLRAD1	0	0	0	2.663202
LDLRAD2	7.492856	8.551423	0	6.658005
LDLRAD3	2.497619	21.37856	8.036876	21.74948
LDLRAP1	460.3944	185.0772	132.6085	167.3379
LDOC1	0	0	0	0.443867
LDOC1L	74.92856	255.3211	16.07375	140.7058
LEAP2	24.14365	3.664896	0	4.43867
LECT1	0	0	0	0
LECT2	0	0	0	0
LEF1	3.330158	1.221632	36.16594	3.107069
LEFTY1	29.13889	12.21632	16.07375	10.65281
LEFTY2	0	0.610816	4.018438	0.887734
LEKR1	10.82301	17.71366	12.05531	10.65281
LELP1	0	0	0	0
LEMD1	176.4984	75.74118	4.018438	41.27963
LEMD2	317.1976	515.5287	257.18	494.9117
LEMD3	51.61745	36.03814	100.461	40.83577
LENEP	6.660317	1.221632	12.05531	3.107069
LENG1	103.2349	90.40076	52.23969	63.02912
LENG8	2053.875	1027.392	293.346	1311.183
LENG9	51.61745	136.212	12.05531	37.28483
LEO1	119.0532	196.0719	482.2126	181.0977
LEP	2.497619	0	0	0
LEPR	10.82301	28.09753	32.1475	34.17776
LEPRE1	121.5508	172.8609	450.0651	247.2339
LEPREL1	124.0484	17.71366	20.09219	59.92205
LEPREL2	21.64603	57.4167	397.8254	107.8597
LEPREL4	39.9619	328.0082	261.1985	305.3805
LEPROT	142.3643	433.6793	120.5531	396.3732
LEPROTL1	174.8333	384.2032	538.4707	269.8711

LETM1	574.4523	198.5152	144.6638	293.3961
LETM2	156.5174	25.04345	24.11063	53.70791
LETMD1	640.2229	296.8566	112.5163	218.3826
LEUTX	0	0	0	0
LFNG	270.5754	286.4727	341.5672	185.9803
LGALS1	1374.523	2767.607	20715.05	1425.701
LGALS12	1.665079	0.610816	0	0.443867
LGALS13	0	0	0	0
LGALS14	0	0	0	0
LGALS16	0	0	0	0
LGALS17A	0	0	0	0
LGALS2	631.8975	1273.551	12.05531	674.234
LGALS3	5265.813	1948.503	25589.41	1760.377
LGALS3BP	4874.519	5056.945	425.9544	5906.982
LGALS4	9833.125	10763.8	277.2722	1537.555
LGALS7	0	14.65958	0	2.219335
LGALS7B	0.83254	119.1091	4.018438	2.219335
LGALS8	118.2206	193.0178	64.29501	256.999
LGALS8-AS	0	1.832448	0	1.775468
LGALS9	1880.707	1070.76	112.5163	794.0781
LGALS9B	10.82301	4.886528	8.036876	7.545739
LGALS9C	49.95237	1.221632	0	0.443867
LGALSL	66.60317	63.52486	52.23969	72.35032
LGI1	0.83254	0.610816	12.05531	0.887734
LGI2	10.82301	7.329791	229.051	27.51976
LGI3	0	1.221632	8.036876	1.775468
LGI4	12.48809	5.497344	28.12907	17.31081
LGMN	298.0492	704.8816	1916.795	495.3556
LGR4	113.2254	189.9638	60.27657	141.1497
LGR5	0	0.610816	12.05531	2.663202
LGR6	39.12936	16.49203	20.09219	44.83057
LGSN	0	0	0	0.443867
LHB	3.330158	7.329791	0	10.65281
LHCGR	0	0	4.018438	0
LHFP	5.827777	9.162239	128.59	30.18296
LHFPL1	0	0	20.09219	0
LHFPL2	131.5413	116.6658	36.16594	135.8233
LHFPL3	0.83254	1.221632	32.1475	0.443867
LHFPL4	0	0.610816	48.22126	0.443867
LHFPL5	0.83254	1.832448	4.018438	1.775468
LHPP	273.073	68.41139	24.11063	46.16217
LHX1	2.497619	14.04877	4.018438	0
LHX2	3.330158	1.221632	24.11063	0
LHX3	0	1.221632	0	0
LHX4	1.665079	6.718975	8.036876	8.87734
LHX5	4.995237	1.221632	24.11063	2.219335
LHX6	2.497619	0.610816	32.1475	2.663202

LHX8	0	1.832448	120.5531	3.550936
LHX9	0.83254	0.610816	64.29501	0
LIAS	51.61745	58.63833	245.1247	59.47818
LIF	690.1753	934.5484	40.18438	808.2818
LIFR	15.81825	12.21632	24.11063	27.51976
LIG1	516.1745	458.7228	152.7006	237.025
LIG3	54.11507	129.493	76.35032	106.0842
LIG4	14.15317	34.81651	8.036876	52.37631
LILRA1	0	0	8.036876	0.887734
LILRA2	4.162698	0.610816	52.23969	6.658005
LILRA3	0	0	12.05531	0.443867
LILRA4	0	0.610816	0	0.443867
LILRA5	2.497619	0.610816	4.018438	0.887734
LILRA6	3.330158	0	32.1475	2.663202
LILRB1	0	0.610816	0	0
LILRB2	0.83254	0	12.05531	1.775468
LILRB3	3.330158	0.610816	0	0.887734
LILRB4	0	0.610816	0	0
LILRB5	0	0	0	0
LILRP2	0	0	0	0
LIM2	0	0	0	0
LIMA1	596.9309	310.9053	80.36876	246.7901
LIMCH1	23.31111	230.8884	96.44251	506.0084
LIMD1	141.5317	112.3901	52.23969	188.1996
LIMD2	69.93332	159.423	952.3698	180.21
LIME1	1286.274	788.5634	52.23969	498.9065
LIMK1	129.8762	338.392	108.4978	494.024
LIMK2	794.2428	189.3529	546.5076	250.341
LIMS1	18.31587	51.91936	16.07375	47.93764
LIMS2	4.162698	4.275712	208.9588	7.545739
LIMS3	0	0	0	0
LIMS3-LOC	0	0	0	0
LIMS3L	0	0	0	0
LIN28A	0	1.221632	12.05531	0.887734
LIN28B	0	0	0	0
LIN37	153.1873	123.3848	237.0878	106.972
LIN52	2.497619	28.09753	8.036876	20.86175
LIN54	35.7992	44.58956	44.20282	50.15697
LIN7A	0	1.221632	0	1.331601
LIN7B	24.97619	36.03814	4.018438	20.41788
LIN7C	59.11031	37.25977	88.40564	50.60084
LIN9	22.47857	25.04345	20.09219	24.41269
LINC00028	0	0	0	0
LINC00029	0	0	0	0
LINC00032	1.665079	1.221632	0	1.331601
LINC00051	0	0	0	0
LINC00052	0	0	0	0

LINC00085	259.7523	65.35731	4.018438	62.58525
LINC00086	8.325396	1.832448	0	3.107069
LINC00087	5.827777	4.275712	0	3.550936
LINC00092	0	0.610816	0	0
LINC00094	84.0865	59.24915	24.11063	49.71311
LINC00102	0	0	0	0
LINC00111	0	0	0	0
LINC00112	0	0	0	0
LINC00113	0	3.05408	0	2.219335
LINC00114	0	0	0	0
LINC00115	5.827777	3.664896	0	4.882537
LINC00116	307.2071	242.4939	514.3601	138.0426
LINC00152	119.8857	106.282	4.018438	90.105
LINC00158	0	0	0	0.443867
LINC00159	0	0	0	0
LINC00160	0.83254	0.610816	0	1.775468
LINC00161	0	0	0	0
LINC00162	0	77.57363	0	66.13619
LINC00163	0	0	0	2.219335
LINC00167	4.995237	0	0	0.887734
LINC00173	1.665079	0	0	0
LINC00174	66.60317	80.62771	8.036876	134.4917
LINC00176	29.13889	5.497344	0	18.19855
LINC00184	0.83254	3.05408	0	7.101872
LINC00189	1.665079	0	0	0.443867
LINC00200	0	0.610816	0	0
LINC00202	0	5.497344	0	11.98441
LINC00204	0	0	0	0
LINC00204	0	0	0	0
LINC00207	0	0	0	0
LINC00208	0	0	0	0
LINC00221	0	0	0	0
LINC00222	0	0	0	1.331601
LINC00226	0	0	0	0
LINC00229	0.83254	0	0	0
LINC00230	0	0	0	0
LINC00230	0	0	0	0
LINC00235	0	1.221632	0	0.443867
LINC00238	0	0	0	0
LINC00239	15.81825	19.54611	0	12.42828
LINC00240	4.995237	9.162239	0	17.31081
LINC00242	0	0	0	0.887734
LINC00244	0.83254	1.221632	0	2.219335
LINC00246	0	0	0	0
LINC00246	0	0	0	0
LINC00251	0	0	0	0
LINC00254	0	0	0	0

LINC00256	0	0	0	3.107069
LINC00256	0	0	0	0.443867
LINC00260	0	4.275712	0	2.663202
LINC00261	17.48333	1.221632	0	7.101872
LINC00263	39.9619	4.275712	8.036876	3.550936
LINC00264	0	0	0	0
LINC00265	54.11507	23.82182	0	32.40229
LINC00266	0	0	0	0
LINC00271	0	0.610816	0	1.331601
LINC00272	0	0	0	0
LINC00273	0	0	0	0
LINC00277	0	0	0	0.887734
LINC00281	0	0	0	0
LINC00282	19.14841	3.664896	0	0
LINC00284	0	0.610816	0	7.989606
LINC00290	0	0	0	0
LINC00293	1.665079	0.610816	0	0
LINC00294	14.98571	26.26509	4.018438	31.51456
LINC00299	4.995237	0	0	0.887734
LINC00301	1.665079	0	0	0
LINC00303	1.665079	0	0	0
LINC00304	0	0	0	2.219335
LINC00305	0	0	0	0
LINC00307	0	0	0	0
LINC00308	0	0	0	0
LINC00309	0	0	0	0
LINC00310	0	3.664896	0	0.443867
LINC00311	0	0	0	0
LINC00312	4.995237	3.05408	0	1.775468
LINC00313	0.83254	0.610816	0	0.887734
LINC00314	0	0	0	0
LINC00315	0	0	0	0
LINC00317	0	0	0	0
LINC00319	0.83254	0.610816	0	3.550936
LINC00320	0	0	4.018438	0
LINC00323	4.995237	0.610816	0	2.219335
LINC00324	0	9.773055	0	12.87214
LINC00326	0	0	0	0.887734
LINC00327	0	0	0	0.887734
LINC00330	4.162698	0	0	0
LINC00336	0	1.221632	4.018438	4.43867
LINC00338	107.3976	75.74118	4.018438	46.60604
LINC00339	17.48333	182.0232	4.018438	72.79419
LINC00340	0	2.443264	0	2.663202
LINC00341	1.665079	0	16.07375	0.887734
LINC00346	47.45476	64.74649	0	60.80978
LINC00347	0	0	4.018438	0

LINC00410	0	0	0	0
LINC00421	0	0	0	0
LINC00426	4.995237	0.610816	0	0
LINC00442	0	0	0	0
LINC00460	0.83254	21.98937	0	10.20894
LINC00461	0.83254	0	8.036876	0
LINC00466	0	1.221632	0	0.443867
LINC00467	36.63174	162.477	0	116.2932
LINC00469	0	0	0	0.443867
LINC00470	0	0	0	0.443867
LINC00471	5.827777	1.221632	0	5.326404
LINC00472	3.330158	20.15693	0	15.97921
LINC00473	0	0	0	0
LINC00474	0	0	0	0
LINC00475	0	0	0	0
LINC00476	56.61269	36.03814	4.018438	23.52495
LINC00477	0	0	4.018438	0.443867
LINC00478	0	2.443264	12.05531	5.326404
LINC00479	27.47381	12.21632	0	15.09148
LINC00482	16.65079	53.14099	0	46.60604
LINC00483	29.97142	2.443264	0	1.331601
LINC00485	0	0	0	0
LINC00486	0	0	0	0
LINC00487	3.330158	1.221632	0	0.443867
LINC00488	0	0	4.018438	0
LINC00493	273.9055	412.3008	4.018438	214.8316
LINC00494	4.995237	6.10816	0	6.214138
LINC00511	19.98095	6.10816	0	10.20894
LINC00514	5.827777	10.99469	0	11.54054
LINC00515	0	0	0	0
LINC00518	2.497619	7.940607	0	1.331601
LINC00520	4.162698	0	0	1.775468
LINC00521	0	0	0	0
LINC00523	0	0	0	0
LINC00525	3.330158	0.610816	0	0.443867
LINC00526	24.14365	26.26509	0	22.19335
LINC00535	5.827777	0	4.018438	0
LINC00536	0	0.610816	0	0
LINC00538	0.83254	0	4.018438	0
LINC00547	0	0	0	0
LINC00548	0	0	0	0
LINC00550	0	0	0	0.443867
LINC00552	0	0	0	0
LINC00574	0	0.610816	0	0
LINC00575	0	0	0	0
LINGO1	4.995237	9.773055	32.1475	5.770271
LINGO2	0	15.2704	8.036876	16.86695



LINGO3	0	1.832448	0	0
LINGO4	0.83254	0	4.018438	0.887734
LINS	123.2159	62.91404	4.018438	48.82537
LIPA	86.58412	165.5311	140.6453	158.0167
LIPC	14.98571	10.99469	0	44.83057
LIPE	40.79444	53.14099	148.6822	34.62163
LIPF	0	0	12.05531	0.443867
LIPG	34.96666	23.82182	0	20.41788
LIPH	509.5142	167.9744	8.036876	197.9647
LIPJ	0	0	0	0.443867
LIPK	0	0	0	2.219335
LIPK	0	0.610816	0	0.443867
LIPM	0	0	0	1.775468
LIPN	0	0	0	0
LIPT1	29.97142	25.04345	12.05531	19.08628
LIPT2	27.47381	61.69241	32.1475	28.40749
LITAF	625.2372	419.0197	180.8297	589.4554
LIX1	0	0	4.018438	1.331601
LIX1L	38.29682	51.30854	695.1898	61.69752
LLGL1	49.11984	89.17913	96.44251	128.7214
LLGL2	2888.08	1990.649	88.40564	1486.511
LLPH	146.527	74.51955	4.018438	55.48338
LMAN1	85.75158	229.6668	80.36876	383.5011
LMAN1L	0	0.610816	0	2.219335
LMAN2	1885.702	2331.484	1221.605	1683.588
LMAN2L	104.9	164.3095	24.11063	145.1445
LMBR1	54.11507	86.12505	32.1475	71.01872
LMBR1L	219.7904	117.8875	550.526	162.4553
LMBRD1	94.07697	154.5364	156.7191	75.45739
LMBRD2	11.65555	15.88121	12.05531	16.86695
LMCD1	43.29206	71.46547	108.4978	63.02912
LMF1	178.1635	139.8769	100.461	114.0738
LMF2	720.1467	1749.377	36.16594	1183.349
LMLN	146.527	86.73587	4.018438	83.447
LMNA	3580.753	6010.429	7872.12	2608.163
LMNB1	247.2643	195.4611	136.6269	163.3431
LMNB2	1133.919	505.7556	88.40564	337.7828
LMO1	6.660317	1.832448	212.9772	6.214138
LMO2	65.77063	27.48672	1788.205	79.00833
LMO3	0	6.10816	44.20282	3.550936
LMO4	988.2245	1228.962	663.0423	267.6518
LMO7	367.15	523.4693	52.23969	551.7267
LMOD1	0.83254	0.610816	36.16594	5.326404
LMOD2	0	0	52.23969	0
LMOD3	4.995237	1.221632	52.23969	2.663202
LMTK2	181.4936	179.5799	28.12907	263.2131
LMTK3	64.10555	309.0729	40.18438	233.4741

LMX1A	0.83254	0	36.16594	0.443867
LMX1B	0	0	24.11063	0.443867
LNP1	30.80396	10.99469	0	7.989606
LNPEP	9.990475	31.76243	32.1475	19.53015
LNK1	32.46904	76.96281	28.12907	50.15697
LNK2	39.9619	42.75712	0	43.0551
LOC10000	42.45952	19.54611	0	23.96882
LOC10009	0	0	0	0
LOC10009	0.83254	0	0	0
LOC10010	0.83254	0	0	1.331601
LOC10012	4.162698	0	12.05531	2.219335
LOC10012	20.81349	26.8759	0	16.42308
LOC10012	0	1.832448	0	10.65281
LOC10012	10.82301	20.76774	0	10.20894
LOC10012	3.330158	44.58956	0	12.87214
LOC10012	0	0	0	0
LOC10012	0	0	0	0
LOC10012	221.4555	67.80057	8.036876	44.3867
LOC10012	4.995237	0.610816	24.11063	3.994803
LOC10012	0	0.610816	0	0.443867
LOC10012	0	0.610816	0	7.101872
LOC10012	1.665079	9.162239	136.6269	19.97402
LOC10012	0	0	0	0.887734
LOC10012	31.6365	5.497344	8.036876	5.326404
LOC10012	1.665079	0	0	0.443867
LOC10012	0	0	0	0
LOC10012	0	0	0	0
LOC10012	0.83254	3.664896	0	11.54054
LOC10012	10.82301	6.718975	8.036876	7.989606
LOC10012	182.3262	145.3742	0	160.6799
LOC10012	4.995237	5.497344	4.018438	4.882537
LOC10012	4.162698	3.05408	0	9.765074
LOC10012	0	0	0	0
LOC10012	0	0	0	0
LOC10012	0	0	0	0
LOC10012	22.47857	4.886528	0	7.101872
LOC10012	12.48809	4.275712	12.05531	3.550936
LOC10012	0	0	12.05531	0
LOC10012	12.48809	1.221632	0	2.663202
LOC10012	0	0	0	0
LOC10012	0	0	0	0
LOC10012	0	0	0	0
LOC10012	4.162698	6.10816	0	6.214138
LOC10012	4.162698	4.886528	0	1.331601
LOC10012	0	0	0	0
LOC10012	0	0	0	0
LOC10012	4.995237	18.93529	0	15.97921

LOC10012!	0	0	0	0.443867
LOC10012!	9.990475	2.443264	0	5.326404
LOC10012!	0.83254	0.610816	0	0
LOC10012!	36.63174	36.64896	0	38.61643
LOC10012!	124.8809	40.31385	0	35.06549
LOC10012!	0	0	0	0
LOC10012!	0	0	0	0
LOC10012!	0	0	0	0
LOC10012!	304.7095	280.3645	4.018438	331.5687
LOC10012!	16.65079	3.05408	0	6.214138
LOC10012!	0.83254	0	0	0
LOC10012!	0.83254	0	0	1.331601
LOC10012!	0	1.221632	0	0
LOC10012!	0.83254	0	0	0
LOC10012!	2.497619	0	0	0
LOC10012!	11.65555	3.05408	0	10.65281
LOC10012!	0	0	0	0
LOC10012!	0	0	0	0.887734
LOC10012!	28.30635	24.43264	0	11.98441
LOC10012!	0	0	0	0
LOC10012!	0	0	0	0.887734
LOC10012!	0	0	0	0
LOC10012!	49.95237	149.0391	8.036876	122.9512
LOC10012!	19.14841	21.98937	20.09219	26.18815
LOC10012!	0	0	0	0
LOC10012!	0	0	0	0
LOC10012!	49.11984	21.98937	0	23.52495
LOC10012!	0	0	0	0
LOC10012!	4.162698	6.718975	0	3.550936
LOC10012!	0	0	0	0
LOC10012!	13.32063	8.551423	0	5.770271
LOC10012!	51.61745	6.718975	0	29.29522
LOC10012!	0	4.275712	0	1.331601
LOC10012!	0	0	0	0
LOC10012!	0	0	0	0
LOC10012!	0	0	0	0
LOC10012!	4.995237	1.832448	0	4.882537
LOC10012!	13.32063	7.940607	0	5.770271
LOC10012!	4.162698	2.443264	0	6.214138
LOC10012!	8.325396	12.82714	0	4.43867
LOC10012!	0	1.221632	4.018438	0.887734
LOC10012!	0	1.221632	0	0.887734
LOC10012!	0.83254	10.99469	0	16.86695
LOC10012!	4.995237	1.221632	0	0.887734
LOC10012!	0.83254	1.832448	0	1.331601
LOC10012!	0	0	0	0
LOC10012!	5.827777	5.497344	0	3.994803

LOC10013(	0	0.610816	0	0
LOC10013(	14.15317	9.162239	0	14.20374
LOC10013(	3.330158	10.99469	0	7.101872
LOC10013(	0	0	0	0
LOC10013(	0	0	0	0.887734
LOC10013(	0	0	0	0
LOC10013(	0.83254	15.88121	4.018438	34.17776
LOC10013(	0	0	0	0
LOC10013(	9.157935	4.275712	16.07375	9.321207
LOC10013(	0	0.610816	0	2.219335
LOC10013(	1.665079	1.221632	0	0
LOC10013(	29.13889	17.10285	470.1573	43.0551
LOC10013(	0	0	0	0
LOC10013(	5.827777	4.886528	0	18.64241
LOC10013(	0	0.610816	0	0
LOC10013(	0	0.610816	0	0.887734
LOC10013(	0	0	0	0
LOC10013(	0	0	0	0
LOC10013(	1.665079	1.221632	0	0.887734
LOC10013(	29.13889	12.82714	0	18.19855
LOC10013(	9.990475	51.91936	0	47.93764
LOC10013(	0	0	0	0
LOC10013(	1.665079	19.54611	12.05531	23.52495
LOC10013(	0	0	0	0
LOC10013(	122.3833	454.4471	12.05531	304.9366
LOC10013(	16.65079	24.43264	0	40.3919
LOC10013(	24.97619	19.54611	0	12.42828
LOC10013(	0	0	0	0
LOC10013(	0.83254	11.6055	0	11.98441
LOC10013(	18.31587	39.70304	0	60.80978
LOC10013(	0	0	0	0
LOC10013(	10.82301	19.54611	20.09219	10.20894
LOC10013(	5.827777	6.718975	0	7.989606
LOC10013(	73.26348	63.52486	0	65.24845
LOC10013(	19.14841	6.10816	0	7.989606
LOC10013(	0	0	0	0
LOC10013(	0	0	0	0
LOC10013(	25.80873	12.82714	0	14.20374
LOC10013(	0	1.221632	0	0.887734
LOC10013:	0	0	0	0
LOC10013:	0	1.221632	0	1.331601
LOC10013:	13.32063	37.87059	4.018438	41.7235
LOC10013:	9.990475	20.15693	0	33.73389
LOC10013:	14.98571	15.2704	4.018438	20.41788
LOC10013:	168.173	61.0816	0	95.43141
LOC10013:	0	0	0	0
LOC10013:	0	0	0	0.443867

LOC10013:	53.28253	14.65958	0	13.31601
LOC10013:	0	0.610816	4.018438	0.443867
LOC10013:	0	0	0	0
LOC10013:	0	1.221632	4.018438	1.331601
LOC10013:	0	1.832448	8.036876	11.09668
LOC10013:	0	0	0	0
LOC10013:	1.665079	1.221632	0	0.443867
LOC10013:	21.64603	9.773055	0	6.214138
LOC10013:	34.96666	15.2704	0	16.86695
LOC10013:	1.665079	2.443264	0	1.331601
LOC10013:	7.492856	15.88121	0	19.08628
LOC10013:	49.11984	60.47078	0	47.0499
LOC10013:	0	0	0	0
LOC10013:	0	0	0	0
LOC10013:	1.665079	10.38387	0	6.214138
LOC10013:	22.47857	34.81651	0	42.61123
LOC10013:	2.497619	14.04877	0	20.86175
LOC10013:	19.14841	0	0	0.443867
LOC10013:	0	0	0	0
LOC10013:	0	0	0	0
LOC10013:	1.665079	1.221632	0	0
LOC10013:	0	1.832448	0	0.443867
LOC10013:	0	1.221632	0	3.994803
LOC10013:	0	0	0	0
LOC10013:	9.990475	0.610816	0	4.43867
LOC10013:	1.665079	9.773055	0	15.97921
LOC10013:	16.65079	11.6055	0	18.19855
LOC10013:	3.330158	1.221632	0	3.107069
LOC10013:	0	0	0	0
LOC10013:	6.660317	15.88121	8.036876	4.882537
LOC10013:	0	0	0	4.882537
LOC10013:	9.990475	12.82714	0	19.53015
LOC10013:	0	0	0	0
LOC10013:	1.665079	0.610816	12.05531	1.331601
LOC10013:	17.48333	6.718975	0	11.54054
LOC10013:	20.81349	14.04877	221.0141	13.75988
LOC10013:	0	0	0	0
LOC10013:	0	0	0	0
LOC10013:	0.83254	1.221632	0	3.994803
LOC10013:	0	0	0	0
LOC10013:	0	0.610816	12.05531	2.219335
LOC10013:	4.995237	10.99469	0	3.994803
LOC10013:	0	0	0	0.443867
LOC10013:	0	0	0	0
LOC10013:	0	0.610816	0	0
LOC10013:	11.65555	6.718975	0	15.97921
LOC10013:	0	0	0	0

LOC10013:	3.330158	1.832448	0	1.331601
LOC10013:	0	0	0	0
LOC10013:	0	1.221632	0	0.443867
LOC10013:	1.665079	0	0	0
LOC10013:	1.665079	4.275712	4.018438	7.989606
LOC10013:	9.990475	5.497344	0	10.65281
LOC10013:	65.77063	32.37325	4.018438	32.84616
LOC10013:	0	0	0	0
LOC10013:	5.827777	4.886528	0	4.43867
LOC10013:	3.330158	1.221632	0	11.09668
LOC10013:	0	0	0	0
LOC10013:	0	0.610816	0	0.443867
LOC10013:	0.83254	0.610816	0	3.107069
LOC10013:	8.325396	15.2704	0	20.86175
LOC10013:	1.665079	2.443264	0	2.219335
LOC10013:	68.26825	6.10816	0	19.53015
LOC10013:	6.660317	1.221632	0	3.107069
LOC10013:	5.827777	0.610816	0	0.443867
LOC10013:	8.325396	4.886528	0	6.214138
LOC10013:	16.65079	6.10816	0	6.214138
LOC10013:	4.162698	0.610816	0	2.219335
LOC10014:	0	0	0	0
LOC10014:	0	0	0	0
LOC10014:	0	0	0	0
LOC10014:	9.157935	28.09753	0	9.321207
LOC10014:	11.65555	1.221632	0	7.101872
LOC10016:	0	0	0	0
LOC10017:	0	0	0	0
LOC10018:	0.83254	1.832448	0	5.326404
LOC10018:	0	0	0	0
LOC10019:	0.83254	0	68.31345	1.331601
LOC10019:	0	1.221632	4.018438	0
LOC10019:	0	0	0	0
LOC10019:	0.83254	1.221632	12.05531	2.663202
LOC10019:	0.83254	0	8.036876	0
LOC10019:	0	15.88121	0	1.775468
LOC10021:	8.325396	3.664896	0	2.663202
LOC10021:	0	0	0	0
LOC10021:	232.2785	141.7093	249.1432	116.737
LOC10021:	92.41189	93.45484	4.018438	186.868
LOC10023:	14.98571	7.329791	0	3.994803
LOC10023:	0	0	0	2.219335
LOC10024:	1.665079	0	0	0
LOC10024:	0	0.610816	0	0.443867
LOC10026:	1.665079	1.221632	0	7.545739
LOC10027:	0	0	0	0.443867
LOC10027:	2.497619	17.10285	0	25.30042

LOC10027:	14.15317	28.09753	0	20.86175
LOC10027:	0	0	4.018438	0.443867
LOC10027:	0	9.162239	0	8.87734
LOC10027:	0	0	0	0
LOC10027:	1.665079	9.162239	0	6.658005
LOC10027:	0	0	0	0
LOC10027:	6.660317	10.38387	0	13.75988
LOC10027:	58.27777	23.82182	0	15.09148
LOC10028:	0	0	0	2.219335
LOC10028:	5.827777	1.221632	12.05531	3.107069
LOC10028:	0	1.832448	0	1.331601
LOC10028:	0	0	0	0
LOC10028:	0	0	0	0
LOC10028:	0	0	8.036876	0
LOC10028:	13.32063	31.15161	4.018438	26.63202
LOC10028:	0	3.05408	0	0.443867
LOC10028:	4.162698	1.832448	0	4.43867
LOC10028:	5.827777	3.05408	0	1.331601
LOC10028:	0	0	8.036876	0
LOC10028:	0.83254	0	0	0
LOC10028:	13.32063	16.49203	0	24.85655
LOC10028:	6.660317	4.275712	0	6.214138
LOC10028:	0	0	0	0
LOC10028:	3.330158	7.940607	0	11.09668
LOC10028:	6.660317	6.718975	116.5347	8.433473
LOC10028:	0	0	0	0
LOC10028:	3.330158	0	0	0.443867
LOC10028:	2.497619	0.610816	0	1.775468
LOC10028:	3.330158	10.99469	0	4.882537
LOC10028:	0	0	0	0.443867
LOC10028:	0	0	0	0.443867
LOC10028:	0	0	0	0
LOC10028:	0.83254	0	0	0
LOC10028:	0	0	0	0
LOC10028:	0	0	0	0.443867
LOC10028:	0	3.05408	0	2.219335
LOC10028:	78.25872	1.221632	8.036876	0
LOC10028:	0	0	0	0
LOC10028:	1.665079	0	0	0
LOC10028:	4.995237	2.443264	0	14.20374
LOC10028:	3.330158	36.64896	0	29.73909
LOC10028:	4.162698	6.10816	20.09219	5.326404
LOC10028:	0	0	0	0
LOC10028:	0.83254	1.832448	4.018438	0
LOC10028:	0.83254	3.664896	0	1.775468
LOC10028:	10.82301	3.664896	0	5.770271
LOC10028:	0	0	0	0

LOC10028:	0	0	0	0
LOC10028:	0	3.05408	0	10.65281
LOC10028:	18.31587	38.48141	4.018438	86.99794
LOC10028:	23.31111	36.64896	0	16.86695
LOC10028:	67.43571	66.57894	4.018438	57.25885
LOC10028:	0	0	0	0
LOC10028:	0.83254	1.221632	0	3.107069
LOC10028:	0	4.886528	0	4.43867
LOC10028:	29.13889	60.47078	12.05531	35.06549
LOC10028:	0	0	0	0.443867
LOC10028:	293.0539	17.10285	12.05531	44.3867
LOC10028:	13.32063	2.443264	0	0.887734
LOC10028:	0	1.832448	0	1.775468
LOC10028:	0	11.6055	4.018438	19.97402
LOC10028:	0	0.610816	0	0
LOC10028:	24.14365	17.10285	0	19.53015
LOC10028:	79.9238	0.610816	0	0.443867
LOC10028:	8.325396	26.8759	0	17.75468
LOC10028:	48.2873	16.49203	0	8.87734
LOC10028:	0	0.610816	0	1.331601
LOC10028:	4.162698	5.497344	0	7.101872
LOC10028:	0.83254	0	0	2.219335
LOC10028:	0.83254	3.664896	0	4.43867
LOC10028:	2.497619	1.221632	0	2.219335
LOC10028:	0	0.610816	0	0
LOC10028:	0	0	0	0
LOC10028:	0	0	0	0
LOC10029:	0.83254	1.832448	0	3.550936
LOC10029:	0	0	0	0
LOC10029:	0	0	0	0.443867
LOC10029:	7.492856	5.497344	0	5.770271
LOC10030:	0	9.773055	0	4.882537
LOC10030:	0	0	0	0
LOC10030:	14.98571	7.940607	0	7.989606
LOC10030:	0	0	0	0
LOC10030:	10.82301	40.31385	0	23.96882
LOC10030:	0	0	0	0
LOC10032:	0.83254	8.551423	60.27657	8.433473
LOC10032:	0	0	0	0
LOC10033:	7.492856	3.05408	60.27657	3.994803
LOC10037:	1.665079	2.443264	0	5.770271
LOC10042:	65.77063	122.1632	0	77.67673
LOC10049:	0.83254	0	0	0
LOC10049:	263.915	219.2829	0	217.4948
LOC10049:	0	0	0	0.443867
LOC10049:	0	1.832448	0	3.107069
LOC10049:	24.97619	1.832448	0	1.331601



LOC10049!	5.827777	6.10816	56.25813	70.13099
LOC10049!	410.442	203.4017	8.036876	260.5499
LOC10049!	256.4222	167.9744	0	102.5333
LOC10049!	1.665079	2.443264	0	2.219335
LOC10049!	35.7992	15.88121	0	22.63722
LOC10050!	0	0	0	0
LOC10050!	0.83254	0	0	0
LOC10050!	0	0	0	0
LOC10050!	0	0	0	0
LOC10050!	5.827777	3.05408	0	2.219335
LOC10050!	0	0	0	0
LOC10050!	0	1.221632	4.018438	0.887734
LOC10050!	0	0	0	0
LOC10050!	0	0	0	0.887734
LOC10050!	1.665079	10.99469	0	4.43867
LOC10050!	55.78015	25.65427	0	26.63202
LOC10050!	0	0.610816	0	0
LOC10050!	0	0	0	0
LOC10050!	0	0	0	0.443867
LOC10050!	0	0	0	0
LOC10050!	878.3293	398.8628	28.12907	236.5811
LOC10050!	0	11.6055	0	12.42828
LOC10050!	0	1.832448	0	0
LOC10050!	0	0	0	0
LOC10050!	4.995237	19.54611	0	20.86175
LOC10050!	0	0	0	0.443867
LOC10050!	0	1.221632	0	4.882537
LOC10050!	0	0	0	0.443867
LOC10050!	7.492856	27.48672	0	3.994803
LOC10050!	12.48809	15.88121	0	15.97921
LOC10050!	9.157935	32.37325	0	23.08108
LOC10050!	118.2206	36.03814	0	68.79939
LOC10050!	0.83254	3.664896	0	1.775468
LOC10050!	4.995237	3.05408	0	3.994803
LOC10050!	36.63174	14.65958	727.3373	15.09148
LOC10050!	0	0	0	0
LOC10050!	38.29682	98.95218	4.018438	42.16737
LOC10050!	204.8047	70.24383	0	27.96362
LOC10050!	194.8143	65.96812	0	51.48857
LOC10050!	0	0.610816	0	0
LOC10050!	0	0	0	0
LOC10050!	0	0	0	0
LOC10050!	20.81349	83.07097	0	49.71311
LOC10050!	0	0	0	0
LOC10050!	43.29206	3.05408	0	47.0499
LOC10050!	7.492856	7.329791	0	7.989606
LOC10050!	3.330158	6.10816	4.018438	31.51456

LOC10050!	0	0	0	0
LOC10050!	0	1.221632	4.018438	4.43867
LOC10050!	0	0	0	0
LOC10050!	16.65079	3.664896	4.018438	3.550936
LOC10050!	0	0	0	0
LOC10050!	216.4603	241.8831	4.018438	154.0219
LOC10050!	14.98571	148.4283	0	54.59564
LOC10050!	2.497619	0	0	2.663202
LOC10050!	117.3881	172.8609	0	102.9771
LOC10050!	19.98095	10.38387	0	9.321207
LOC10050!	5.827777	11.6055	0	16.42308
LOC10050!	8.325396	0	0	2.663202
LOC10050!	17.48333	3.05408	0	2.663202
LOC10050!	0	0	0	0
LOC10050!	0.83254	0	0	0
LOC10050!	0	0	0	0
LOC10050!	120.7182	133.7687	0	68.79939
LOC10050!	0	2.443264	40.18438	1.775468
LOC10050!	0	0	0	0
LOC10050!	0	2.443264	0	2.663202
LOC10050!	0	0	0	0
LOC10050!	164.0103	166.7528	0	125.6144
LOC10050!	0.83254	0	0	0
LOC10050!	0.83254	0.610816	0	0.443867
LOC10050!	0	0.610816	0	0
LOC10050!	26.64127	55.58425	0	21.30562
LOC10050!	1.665079	1.832448	0	0
LOC10050!	0	0	0	0.887734
LOC10050!	13.32063	6.10816	0	5.770271
LOC10050!	0	0	0	0
LOC10050!	31.6365	14.04877	0	12.87214
LOC10050!	0	0	0	0
LOC10050!	15.81825	21.37856	0	31.95843
LOC10050!	12.48809	7.329791	0	6.658005
LOC10050!	0	0	0	0
LOC10050!	0.83254	4.886528	0	1.331601
LOC10050!	0	0	0	0
LOC10050!	0	0	0	43.49897
LOC10050!	96.57459	29.92998	0	40.83577
LOC10050!	0	1.832448	0	0.443867
LOC10050!	0	2.443264	0	7.101872
LOC10050!	0	0	0	0.443867
LOC10050!	65.77063	122.774	0	69.68712
LOC10050!	0	1.832448	0	0
LOC10050!	0	0	0	0
LOC10050!	0	3.05408	0	2.219335
LOC10050!	7.492856	51.91936	0	28.85136

LOC10050(	0	0	4.018438	2.219335
LOC10050(	2.497619	0	0	0
LOC10050(	0	1.221632	0	0.443867
LOC10050(	0.83254	1.221632	0	3.107069
LOC10050(	0	0	0	0
LOC10050(	51.61745	51.30854	4.018438	39.0603
LOC10050(	0	1.221632	0	0.443867
LOC10050(	0	4.886528	0	5.326404
LOC10050(	0	0	0	0
LOC10050(	0	1.221632	0	0
LOC10050(	1.665079	0	0	0
LOC10050(	0	0	0	0
LOC10050(	0	0	0	0
LOC10050(	0	8.551423	0	11.09668
LOC10050(	15.81825	3.664896	0	3.994803
LOC10050(	61.60793	43.36793	0	31.95843
LOC10050(	8.325396	1.832448	0	6.214138
LOC10050(	0	0	0	0.443867
LOC10050(	4.995237	2.443264	4.018438	1.775468
LOC10050(	6.660317	10.38387	0	0.887734
LOC10050(	204.8047	116.6658	4.018438	91.88047
LOC10050(	3.330158	0.610816	0	0.443867
LOC10050(	10.82301	9.773055	4.018438	8.87734
LOC10050(	13.32063	10.38387	0	7.989606
LOC10050(	0	0	0	0
LOC10050(	0	3.664896	4.018438	1.775468
LOC10050(	12.48809	15.2704	0	9.321207
LOC10050(	80.75634	110.5577	8.036876	76.34513
LOC10050(	23.31111	32.98406	0	38.17256
LOC10050(	0	0	0	0.443867
LOC10050(	208.1349	190.5746	8.036876	328.4616
LOC10050(	2.497619	4.275712	4.018438	0
LOC10050(	154.8524	131.3254	0	93.65594
LOC10050(	37.46428	10.99469	0	28.85136
LOC10050(	0	0	0	0
LOC10050(	11.65555	18.32448	0	13.31601
LOC10050(	1.665079	0	0	0.887734
LOC10050(	0	0	0	0
LOC10050(	4.162698	4.886528	4.018438	8.433473
LOC10050(	0	0.610816	0	0.887734
LOC10050(	1.665079	6.718975	0	3.994803
LOC10050(	2.497619	3.664896	0	0.443867
LOC10050(	4.162698	6.10816	0	10.65281
LOC10050(	0	0.610816	0	0
LOC10050(	3.330158	3.664896	0	6.658005
LOC10050(	4.162698	3.05408	0	4.43867
LOC10050(	0	1.832448	0	2.663202

LOC10050:	0	0	0	0
LOC10050:	0	0	0	0.887734
LOC10050:	39.9619	0	0	2.219335
LOC10050:	3.330158	6.718975	0	2.663202
LOC10050:	3.330158	7.940607	0	4.43867
LOC10050:	49.95237	9.162239	0	11.98441
LOC10050:	5.827777	3.05408	0	2.663202
LOC10050:	0	0.610816	0	0
LOC10050:	26.64127	19.54611	0	20.41788
LOC10050:	5.827777	25.04345	0	24.85655
LOC10050:	0	0	0	0
LOC10050:	0	0	16.07375	2.219335
LOC10050:	2.497619	23.21101	0	24.41269
LOC10050:	0	0	0	0
LOC10050:	19.98095	11.6055	0	9.765074
LOC10050:	0	0	0	0.443867
LOC10050:	0.83254	3.05408	0	3.107069
LOC10050:	0	0	4.018438	0.443867
LOC10050:	0	0	0	0
LOC10050:	4.995237	0	0	0.887734
LOC10050:	345.5039	3.05408	0	12.87214
LOC10050:	0	1.221632	0	0.887734
LOC10050:	0	0.610816	0	0.887734
LOC10050:	1.665079	11.6055	4.018438	4.882537
LOC10050:	9.990475	3.664896	0	10.65281
LOC10050:	0	0	0	1.331601
LOC10050:	0	0.610816	0	0
LOC10050:	0	0	0	0
LOC10050:	0	0	0	0
LOC10050:	309.7047	263.8725	237.0878	184.6487
LOC10050:	32.46904	6.10816	0	14.64761
LOC10050:	2.497619	0.610816	0	0
LOC10050:	0.83254	0	0	0.443867
LOC10050:	576.9499	302.3539	16.07375	168.2256
LOC10050:	0	3.05408	32.1475	1.331601
LOC10050:	0	0	0	0
LOC10050:	7.492856	6.10816	4.018438	6.658005
LOC10050:	0.83254	4.886528	0	1.331601
LOC10050:	0	0	0	0
LOC10050:	20.81349	5.497344	0	3.994803
LOC10050:	0	0	0	0
LOC10050:	0	0	0	0
LOC10050:	0	0	0	0
LOC10050:	0	0	0	0
LOC10050:	0	0	0	0
LOC10050:	10.82301	3.05408	0	4.43867
LOC10050:	0	0	0	0

LOC10050:	0	0.610816	0	0
LOC10050:	0	0	0	0
LOC10050:	0	0.610816	0	0.443867
LOC10050:	0.83254	0	0	0
LOC10050:	9.990475	0.610816	0	1.331601
LOC10050:	0	0	0	0
LOC10050:	0.83254	0	0	2.219335
LOC10050:	238.9389	120.9416	92.42408	256.1113
LOC10050:	3.330158	1.221632	20.09219	2.219335
LOC10050:	0	0	0	0.887734
LOC10050:	11.65555	6.10816	0	9.765074
LOC10050:	4.995237	0	0	0.443867
LOC10050:	0	0	0	0
LOC10050:	5.827777	0	0	0.887734
LOC10050:	0	0	0	0
LOC10050:	0.83254	1.832448	0	0.887734
LOC10050:	2.497619	0	0	0
LOC10050:	3.330158	3.05408	0	12.87214
LOC10050:	0	0	0	0.443867
LOC10050:	4.995237	31.15161	0	28.85136
LOC10050:	32.46904	37.87059	8.036876	36.84096
LOC10050:	0	0.610816	0	0.443867
LOC10050:	0	0.610816	0	0.443867
LOC10050:	0.83254	1.221632	0	2.663202
LOC10050:	0	5.497344	0	3.107069
LOC10050:	54.94761	6.10816	4.018438	7.101872
LOC10050:	16.65079	12.21632	0	13.31601
LOC10050:	0	0	0	0.443867
LOC10050:	0	0	0	0.443867
LOC10050:	37.46428	19.54611	0	3.994803
LOC10050:	0	0	0	1.331601
LOC10050:	0	0	0	0
LOC10050:	0	0.610816	4.018438	0
LOC10050:	0.83254	0	0	0.443867
LOC10050:	0	0	0	0
LOC10050:	1.665079	3.664896	0	4.882537
LOC10050:	0	0.610816	8.036876	0
LOC10050:	8.325396	7.940607	0	9.321207
LOC10050:	1.665079	0	0	0.887734
LOC10050:	0.83254	0.610816	0	0.443867
LOC10052:	0	0	0	0
LOC10052:	89.08173	47.64364	0	39.50416
LOC10061:	0	0.610816	0	0.887734
LOC10061:	2.497619	14.65958	0	19.53015
LOC10062:	0	0	0	0
LOC10063:	55.78015	37.25977	0	23.08108
LOC10063:	0	0	0	0

LOC10063:	0	0	0	0
LOC10065:	3.330158	7.329791	4.018438	5.770271
LOC10065:	0.83254	1.832448	0	1.331601
LOC10065:	0	0	0	0
LOC10065:	28.30635	21.98937	4.018438	40.83577
LOC10065:	5.827777	1.832448	0	2.219335
LOC10065:	0	1.221632	0	6.214138
LOC10065:	0	0	0	0
LOC10065:	0	0	0	0
LOC10065:	0	0	0	0
LOC10065:	0	1.221632	0	0.443867
LOC10085:	111.5603	209.5099	4.018438	144.7006
LOC10086:	0	0	0	0
LOC11323:	626.0698	47.03283	16.07375	41.7235
LOC11511:	622.7396	48.86528	0	20.86175
LOC11643:	0	0	0	0
LOC12082:	0	0	0	0
LOC12653:	5.827777	0	0	0.887734
LOC12784:	1.665079	3.05408	4.018438	2.219335
LOC13920:	0	0.610816	12.05531	0.887734
LOC14318:	10.82301	0.610816	4.018438	4.43867
LOC14366:	47.45476	15.88121	0	18.64241
LOC14448:	0	1.221632	0	0.443867
LOC14448:	1.665079	0.610816	0	0.443867
LOC14457:	0.83254	3.05408	0	4.882537
LOC14474:	0	0	0	0
LOC14521:	0	0.610816	0	0
LOC14547:	0	0	0	0
LOC14566:	0	0.610816	0	2.219335
LOC14578:	0.83254	18.93529	0	22.19335
LOC14582:	0	0	0	0
LOC14583:	0	0.610816	0	3.107069
LOC14584:	0	2.443264	0	0
LOC14633:	7.492856	0	0	0.443867
LOC14648:	0	0	0	0
LOC14651:	0	0	0	0
LOC14688:	653.5436	775.1254	92.42408	652.0406
LOC14709:	0	0.610816	0	0.887734
LOC14764:	0	0.610816	0	1.331601
LOC14767:	1.665079	0	0	0
LOC14772:	172.3357	165.5311	0	93.65594
LOC14780:	52.44999	30.5408	0	22.63722
LOC14814:	0	0	0	0
LOC14818:	1.665079	10.99469	0	10.20894
LOC14841:	223.1206	187.5205	8.036876	149.1393
LOC14869:	1.665079	3.05408	8.036876	2.219335
LOC14870:	8.325396	4.275712	0	1.775468

LOC14882:	0	0	0	0
LOC14908:	0.83254	0	0	0
LOC14913:	2.497619	1.221632	0	6.214138
LOC14937:	0	0	0	0
LOC14977:	1.665079	0	0	1.331601
LOC14983:	3.330158	6.10816	0	10.20894
LOC14995:	0	0	0	0.887734
LOC15018:	0	0	0	0
LOC15019:	99.90475	13.43795	0	4.43867
LOC15038:	41.62698	64.74649	0	24.85655
LOC15052:	0	0	0	0
LOC15056:	0	0	0	0
LOC15062:	4.162698	17.10285	4.018438	13.31601
LOC15077:	253.092	168.5852	0	205.0666
LOC15093:	0	0	0	0
LOC15100:	0.83254	0	0	0.443867
LOC15117:	3.330158	0	0	0
LOC15117:	0	0	0	0.887734
LOC15130:	0	0.610816	0	0
LOC15147:	0	0	0	0.887734
LOC15148:	0	0	0	0
LOC15153:	96.57459	95.8981	4.018438	99.87008
LOC15165:	0	0	0	0
LOC15202:	0	0.610816	0	0.443867
LOC15221:	956.588	226.0019	8.036876	162.8992
LOC15222:	0	3.05408	0	4.43867
LOC15257:	0	0.610816	0	0
LOC15274:	0	0.610816	0	0.887734
LOC15346:	0	0	0	0
LOC15368:	19.98095	23.21101	0	24.41269
LOC15391:	0	0	0	1.331601
LOC15409:	0	0	0	0.443867
LOC15444:	0	0	0	0
LOC15476:	0	0.610816	0	0.443867
LOC15482:	0	0.610816	0	0
LOC15486:	380.4706	29.31917	12.05531	32.40229
LOC15487:	0	0	0	0
LOC15506:	68.26825	125.2173	4.018438	118.9564
LOC15727:	0	0.610816	0	2.663202
LOC15738:	0	0.610816	0	1.775468
LOC15762:	0	0	0	0
LOC15825:	11.65555	6.10816	0	4.882537
LOC15837:	0	0.610816	4.018438	0
LOC15843:	0	1.221632	0	2.219335
LOC15843:	0	0	0	0.887734
LOC15857:	1.665079	3.664896	0	3.994803
LOC15869:	0	0	0	0

LOC17042!	0	0	0	0
LOC1720	0	0	0	0
LOC20026:	0	0	0	0
LOC20072(	0	0	4.018438	0
LOC20077:	0	0	0	3.994803
LOC20147:	0	0.610816	0	3.550936
LOC20161:	0.83254	0	0	0
LOC20165:	24.97619	24.43264	0	13.31601
LOC20218:	7.492856	6.718975	0	12.87214
LOC20278:	112.3928	92.23321	0	67.02392
LOC21934:	0	5.497344	0	9.321207
LOC21973:	0	5.497344	0	3.550936
LOC22072!	50.78491	20.76774	8.036876	40.3919
LOC22090(	69.93332	175.915	4.018438	124.7266
LOC22112:	0	0	0	0
LOC22144:	14.15317	59.85996	4.018438	59.92205
LOC25303!	78.25872	61.69241	0	72.79419
LOC25304:	1.665079	0	0	0
LOC25357:	0	0	0	0
LOC25396:	0	0	8.036876	0.443867
LOC25409!	20.81349	11.6055	0	9.765074
LOC25410(	16.65079	7.940607	0	12.42828
LOC25412!	22.47857	37.25977	4.018438	27.96362
LOC25431:	0	0	0	0
LOC25455!	0	0.610816	0	0
LOC25489!	4.162698	14.04877	0	12.42828
LOC25502!	0	0	0	0
LOC25513(	0	0	0	0.443867
LOC25516:	0	2.443264	0	0.887734
LOC25541:	3.330158	0	0	0.443867
LOC25548(	0	1.832448	0	0
LOC25551:	25.80873	25.04345	0	15.53535
LOC25565:	1.665079	0	0	0
LOC25602:	12.48809	3.05408	0	1.331601
LOC25688(	4.995237	1.221632	0	1.775468
LOC25735!	0.83254	1.832448	0	2.219335
LOC25739!	9.157935	26.8759	0	19.08628
LOC28298(	0	0	0	0.443867
LOC28299:	10.82301	2.443264	0	6.214138
LOC28303:	0	0	0	0
LOC28303!	4.162698	1.221632	0	0.443867
LOC28305(	18.31587	10.38387	4.018438	12.87214
LOC28307(	3.330158	53.14099	60.27657	72.35032
LOC28308!	2.497619	0.610816	0	0
LOC28310:	0.83254	19.54611	0	18.64241
LOC28311(	0	0	0	0
LOC28314:	0	0	0	0



LOC28317:	34.96666	2.443264	4.018438	3.107069
LOC28317:	19.14841	0.610816	0	2.219335
LOC28319:	0	0	0	0
LOC28321:	0	0	0	0
LOC28329:	0	0	0	0
LOC28333:	0	0	0	0.443867
LOC28333:	44.1246	18.32448	0	17.31081
LOC28339:	0	72.6871	4.018438	73.23806
LOC28340:	0	0	0	0
LOC28340:	0.83254	2.443264	0	0
LOC28344:	0	0	0	0.443867
LOC28348:	0	6.718975	0	8.87734
LOC28354:	0	1.221632	0	0
LOC28355:	0.83254	0	0	1.331601
LOC28358:	0	0	0	0
LOC28358:	0	0.610816	0	4.882537
LOC28362:	29.97142	20.76774	4.018438	52.37631
LOC28366:	46.62222	2.443264	0	6.658005
LOC28368:	0	0.610816	0	1.775468
LOC28368:	0	0	4.018438	0
LOC28369:	0	0	0	0
LOC28369:	4.995237	6.10816	36.16594	7.545739
LOC28371:	24.97619	6.718975	0	21.30562
LOC28373:	0	0	0	0
LOC28373:	0	0	0	0
LOC28376:	0	0	0	0
LOC28378:	44.1246	31.76243	0	33.73389
LOC28385:	0	0	0	0
LOC28386:	0	0	0	0
LOC28388:	0	0	0	0
LOC28391:	0	1.221632	0	0
LOC28392:	5.827777	7.329791	0	6.658005
LOC28400:	0	1.832448	0	0.887734
LOC28402:	11.65555	18.32448	0	11.54054
LOC28408:	8.325396	17.10285	0	7.989606
LOC28410:	10.82301	14.04877	188.8666	17.75468
LOC28421:	0	0	0	0
LOC28426:	0.83254	1.221632	0	0
LOC28427:	0.83254	0	0	0.443867
LOC28429:	0	0	0	0
LOC28434:	0	0	0	0
LOC28437:	0	0	0	0
LOC28438:	16.65079	51.30854	0	27.07589
LOC28439:	0	0.610816	0	0.443867
LOC28440:	19.14841	0.610816	0	0.887734
LOC28441:	0	0	0	0.887734
LOC28444:	18.31587	17.10285	0	19.53015

LOC28445:	215.6278	129.493	12.05531	80.7838
LOC28455:	0.83254	0	0	0.443867
LOC28457:	0.83254	0	0	1.775468
LOC28457:	4.995237	15.2704	0	15.53535
LOC28458:	0	3.664896	0	34.62163
LOC28463:	0	0	0	0.443867
LOC28464:	0	0	0	0
LOC28466:	0	0	0	0
LOC28468:	0	0	0	0
LOC28475:	0	13.43795	0	19.08628
LOC28475:	0	0	0	0
LOC28478:	0	0	0	0
LOC28479:	0	20.15693	0	21.74948
LOC28480:	0	0	8.036876	0
LOC28483:	15.81825	4.275712	4.018438	9.765074
LOC28486:	122.3833	1.832448	0	2.219335
LOC28488:	35.7992	15.88121	0	9.321207
LOC28493:	0	0	0	0
LOC28495:	0	0	0	0
LOC28499:	0	0	0	0
LOC28500:	0	0	0	0.443867
LOC28503:	12.48809	17.10285	0	20.86175
LOC28507:	9.990475	8.551423	20.09219	2.663202
LOC28508:	0.83254	0	0	0
LOC28510:	0	0	0	0
LOC28520:	0	0.610816	0	0
LOC28532:	0	0	0	0
LOC28535:	36.63174	14.04877	36.16594	19.97402
LOC28537:	0	1.832448	0	0
LOC28537:	0	0	0	0
LOC28540:	0	0	4.018438	0
LOC28541:	17.48333	16.49203	0	20.86175
LOC28544:	0	11.6055	0	13.31601
LOC28545:	0.83254	0	4.018438	0.443867
LOC28548:	0	1.221632	0	0
LOC28550:	0.83254	0	0	0.887734
LOC28554:	3.330158	2.443264	0	3.994803
LOC28554:	0	0	0	0.443867
LOC28554:	4.162698	0	0	0.887734
LOC28557:	0	0	0	0
LOC28559:	0	0.610816	12.05531	1.775468
LOC28562:	0	0.610816	0	0.887734
LOC28562:	0	0.610816	0	0
LOC28562:	2.497619	2.443264	0	5.770271
LOC28569:	0	0	0	0
LOC28569:	0	0	4.018438	0
LOC28574:	2.497619	1.221632	0	0

LOC28575	38.29682	7.940607	8.036876	8.433473
LOC28576	0	0	4.018438	0
LOC28576	0	0.610816	0	1.775468
LOC28579	5.827777	0	0	0
LOC28581	0	0	0	0
LOC28584	0	0	0	0.443867
LOC28587	0	0.610816	0	0
LOC28588	0	1.221632	0	0.887734
LOC28595	0	0	4.018438	0.443867
LOC28596	11.65555	6.718975	12.05531	3.107069
LOC28597	0	0	0	0
LOC28600	0	0	0	0
LOC28605	0	0	0	1.775468
LOC28608	0	0	4.018438	0
LOC28609	0	0	0	0
LOC28611	0	0	0	0
LOC28613	0	0	0	0
LOC28617	0	0	0	0
LOC28618	0	0.610816	0	0
LOC28618	0	0	0	0.443867
LOC28618	0	0	0	0
LOC28619	0.83254	1.221632	0	0.443867
LOC28623	0	0	0	0
LOC28629	0	0	4.018438	0
LOC28635	0	0	0	0
LOC28636	0.83254	3.05408	0	7.989606
LOC28637	0	0	4.018438	0
LOC28643	3.330158	11.6055	0	10.65281
LOC28644	0	0	0	0
LOC28646	14.15317	12.21632	4.018438	9.765074
LOC33857	1.665079	0	0	0
LOC33858	0	0	0	0
LOC33865	7.492856	0	0	3.550936
LOC33873	4.162698	0.610816	4.018438	0
LOC33875	11.65555	2.443264	0	3.994803
LOC33879	211.4651	38.48141	48.22126	40.3919
LOC33881	0.83254	19.54611	0	22.19335
LOC33896	0	0	4.018438	0
LOC33916	0	0	8.036876	0
LOC33924	0	0	0	0
LOC33929	106.5651	193.0178	12.05531	154.9096
LOC33929	0	0	0	0.887734
LOC33944	0	0	0	0
LOC33950	0	0	0	0.887734
LOC33952	3.330158	5.497344	0	10.65281
LOC33952	0	0	0	0
LOC33953	0	0	0	0

LOC33956:	0	0	0	0
LOC33959:	0	0	0	0
LOC33962:	0	0	0	0
LOC33966:	0	0	0	0.443867
LOC33968:	0	0	0	0
LOC33978:	0	0.610816	0	0
LOC33980:	67.43571	48.86528	0	37.7287
LOC33980:	0	0	0	0
LOC33982:	0	0	0	0
LOC33986:	0	0.610816	4.018438	0.443867
LOC33987:	29.13889	0.610816	0	4.882537
LOC33989:	19.14841	4.275712	0	6.214138
LOC33992:	0	0	0	0
LOC33997:	0	0	0	0
LOC34001:	0	1.832448	0	2.219335
LOC34003:	3.330158	6.718975	0	5.770271
LOC34007:	0	0.610816	0	0
LOC34007:	0	0	0	0
LOC34009:	0	0	0	0
LOC34010:	0	0	0	0
LOC34011:	0	0.610816	0	0
LOC34035:	0	0	0	0
LOC34050:	0	0.610816	0	3.550936
LOC34051:	0	0	0	0
LOC34054:	10.82301	6.718975	0	10.65281
LOC34105:	7.492856	2.443264	60.27657	3.994803
LOC34459:	48.2873	4.275712	0	9.321207
LOC34488:	69.93332	3.05408	4.018438	11.98441
LOC34496:	2.497619	4.275712	16.07375	1.331601
LOC34741:	0	0	0	0
LOC34812:	0	0	0	0
LOC34876:	4.995237	3.05408	0	0.443867
LOC34916:	163.1778	56.80588	3054.013	64.80458
LOC34919:	0	0	0	0
LOC37444:	14.15317	37.25977	4.018438	54.59564
LOC37501:	0	0	0	0
LOC37519:	2.497619	13.43795	4.018438	13.75988
LOC37519:	0.83254	0	0	0
LOC37529:	0	2.443264	0	4.43867
LOC38659:	0	6.10816	0	7.545739
LOC38675:	0	0	0	0
LOC38764:	1.665079	18.32448	4.018438	17.31081
LOC38764:	52.44999	138.0444	16.07375	100.3139
LOC38772:	10.82301	14.65958	0	11.54054
LOC38789:	4.995237	0.610816	0	1.331601
LOC38815:	14.98571	3.664896	4.018438	8.433473
LOC38824:	0	0	0	0

LOC38827:	0	0	0	0
LOC38838:	0	0	0	0.443867
LOC38849:	19.98095	6.718975	361.6594	15.97921
LOC38855:	0	0	0	0
LOC38858:	13.32063	18.93529	44.20282	17.31081
LOC38863:	6.660317	54.97344	36.16594	23.08108
LOC38869:	50.78491	31.76243	0	59.92205
LOC38879:	408.7769	131.9362	0	121.6196
LOC38881:	0	0	0	0
LOC38884:	0.83254	0	0	2.219335
LOC38890:	0.83254	3.664896	0	3.107069
LOC38894:	0	0.610816	8.036876	3.550936
LOC38894:	0	0	0	0
LOC38894:	0.83254	2.443264	0	0.887734
LOC38902:	0	11.6055	0	5.770271
LOC38903:	0	0	0	0
LOC38904:	0	0	0	0
LOC38924:	0.83254	15.88121	0	6.214138
LOC38933:	142.3643	18.93529	16.07375	3.994803
LOC38945:	0	0	0	0.443867
LOC38949:	0.83254	0	8.036876	0.443867
LOC38963:	2.497619	0	0	0
LOC38964:	21.64603	29.92998	0	33.73389
LOC38970:	0	0.610816	8.036876	1.331601
LOC38976:	0	0.610816	0	0.887734
LOC38979:	16.65079	4.886528	0	8.87734
LOC38983:	54.94761	246.1588	0	219.7142
LOC38983:	7.492856	3.664896	4.018438	1.775468
LOC38990:	22.47857	9.162239	0	7.989606
LOC39066:	0	0	0	0
LOC39070:	0	0	0	0
LOC39085:	0	0	8.036876	0
LOC39094:	0.83254	5.497344	4.018438	9.765074
LOC39132:	9.157935	12.21632	0	5.326404
LOC39219:	0	0	0	0
LOC39223:	0	0	4.018438	0
LOC39236:	0	0.610816	0	0
LOC39970:	0	0	8.036876	0
LOC39971:	1.665079	13.43795	0	11.54054
LOC39974:	2.497619	34.20569	0	31.51456
LOC39975:	7.492856	4.886528	0	13.75988
LOC39981:	4.162698	1.221632	8.036876	7.545739
LOC39982:	0.83254	0	0	0.443867
LOC39993:	0	0	0	0
LOC39994:	0.83254	0	0	0
LOC40002:	54.11507	40.31385	8.036876	27.96362
LOC40004:	243.1016	4.886528	0	75.90126

LOC40008:	9.990475	1.221632	0	0
LOC40023:	15.81825	10.38387	0	11.09668
LOC40023:	0	0	0	0
LOC40045:	0	0	0	0
LOC40054:	0	0.610816	0	0
LOC40055:	0	0	0	0
LOC40055:	0	0	0	0
LOC40060:	6.660317	6.718975	0	4.43867
LOC40062:	0	0	0	0
LOC40064:	44.1246	0	0	0.443867
LOC40065:	0	0	0	0
LOC40065:	0	0	0	0
LOC40065:	12.48809	31.15161	0	23.08108
LOC40068:	0	0	0	0
LOC40068:	8.325396	9.773055	0	3.550936
LOC40068:	0	0	0	0.443867
LOC40075:	3.330158	9.773055	0	8.433473
LOC40079:	3.330158	6.10816	76.35032	6.658005
LOC40089:	1.665079	0	0	0
LOC40092:	1.665079	4.275712	0	3.107069
LOC40094:	0	1.221632	0	2.219335
LOC40095:	0	0	0	0
LOC40101:	2.497619	2.443264	24.11063	3.107069
LOC40105:	41.62698	17.71366	0	36.84096
LOC40107:	0	0	0	0
LOC40109:	0	0.610816	0	1.331601
LOC40110:	0	3.05408	0	4.43867
LOC40112:	7.492856	1.221632	32.1475	1.775468
LOC40113:	0	0	0	0
LOC40116:	0	0	0	0
LOC40117:	0	0	0	0
LOC40124:	0	0	0	0
LOC40132:	74.09602	56.80588	0	48.3815
LOC40132:	78.25872	31.15161	0	25.30042
LOC40132:	1.665079	0	0	0
LOC40139:	90.74681	128.8822	12.05531	80.7838
LOC40143:	9.157935	6.10816	0	6.658005
LOC40146:	0	0	0	0
LOC40149:	0	0.610816	0	0
LOC40155:	0	0	0	0
LOC40158:	24.97619	17.71366	0	16.86695
LOC40198:	0	0.610816	0	1.331601
LOC40216:	13.32063	0	4.018438	1.775468
LOC40277:	0	0	0	0
LOC40783:	31.6365	23.82182	900.1301	30.18296
LOC41505:	1.665079	0	8.036876	0
LOC43994:	0.83254	0	0	0

LOC43995(	0	0	0	0
LOC43999(	40.79444	79.40607	0	63.91685
LOC43999(	0.83254	0.610816	0	1.331601
LOC44002(	0	2.443264	0	4.882537
LOC44004(	0	0	0	0
LOC44004(	0	0	0	0
LOC44011(	0	0	0	0
LOC44013(	0	0.610816	0	0
LOC44017(	0	0	0	0
LOC44028(	8.325396	16.49203	0	15.09148
LOC44029(	0	0	0	0
LOC44030(	0	0	0	0.443867
LOC44033(	2306.135	1283.324	32.1475	744.365
LOC44035(	0	7.940607	0	0.887734
LOC44035(	14.98571	2.443264	0	4.43867
LOC44043(	18.31587	18.93529	0	32.84616
LOC44046(	4.995237	0	0	0.887734
LOC44051(	0	0.610816	8.036876	0
LOC44056(	0	0.610816	0	0
LOC44060(	0.83254	3.05408	0	5.770271
LOC44070(	0	0.610816	0	0
LOC44070(	0	0	12.05531	0
LOC44089(	8.325396	3.664896	0	4.882537
LOC44089(	0	0	0	0
LOC44089(	0	0	0	0
LOC44090(	3.330158	4.275712	0	4.43867
LOC44090(	0	1.221632	0	0
LOC44091(	0	0	0	0
LOC44092(	2.497619	20.15693	0	26.63202
LOC44094(	133.2063	59.85996	0	60.36591
LOC44097(	0	0	4.018438	0
LOC44100(	0	0.610816	0	0.443867
LOC44102(	0	0	0	0
LOC44117(	0	0	4.018438	0
LOC44120(	0	0	0	0
LOC44124(	0	3.05408	0	0.887734
LOC44145(	0	0	0	0.443867
LOC44145(	3.330158	26.26509	44.20282	17.75468
LOC44146(	0	2.443264	0	3.107069
LOC44149(	0	0	0	0
LOC44160(	0	0	0	0
LOC44166(	0	0.610816	4.018438	0
LOC44202(	0	0.610816	0	0
LOC44213(	0	0	0	0
LOC44242(	0	1.221632	0	0
LOC44245(	0	0	0	0
LOC44249(	0	1.221632	0	0.443867

LOC493754	62.44047	43.97875	24.11063	43.0551
LOC494127	3.330158	1.221632	52.23969	5.770271
LOC494147	0	0	0	0.443867
LOC494558	0	0	0	0
LOC503519	0	0	0	0
LOC541477	203.1397	74.51955	28.12907	70.57486
LOC541478	0	1.832448	0	1.331601
LOC550111	54.11507	88.56831	0	102.0894
LOC550112	0	0	0	0
LOC550643	247.2643	119.7199	221.0141	166.894
LOC553103	37.46428	15.2704	0	11.98441
LOC554201	0	0	0	0
LOC554206	8.325396	16.49203	0	9.765074
LOC554222	0	0	0	0.443867
LOC572558	0	0	0	0
LOC574538	0	0	0	0
LOC595107	9.157935	6.10816	4.018438	2.663202
LOC606724	0	0	0	0
LOC613037	9.990475	1.832448	0	9.765074
LOC613038	0	0	0	0
LOC619207	36.63174	46.42201	0	153.1341
LOC639301	0	0	0	0
LOC641298	0	1.221632	0	0
LOC641364	0	1.221632	0	0
LOC641365	0	0	0	0
LOC641367	0.83254	0	0	0.887734
LOC641511	0.83254	0	4.018438	0.887734
LOC641518	0	0	0	0
LOC641746	0	0	8.036876	0
LOC642236	12.48809	4.275712	0	3.550936
LOC642367	6.660317	10.99469	0	11.98441
LOC642368	1.665079	39.70304	0	26.18815
LOC642426	0	0	0	0
LOC642826	0	0	0	0
LOC642846	99.07221	46.42201	0	69.24325
LOC642857	14.15317	47.03283	12.05531	74.56966
LOC642925	0	0	0	0
LOC643037	6.660317	7.940607	0	2.663202
LOC643207	32.46904	1.221632	0	3.107069
LOC643339	0.83254	0.610816	0	0
LOC643387	42.45952	14.04877	474.1757	15.53535
LOC643401	0	0	0	0
LOC643406	0	0	4.018438	1.775468
LOC643447	0	0	0	1.775468
LOC643486	2.497619	0	0	0
LOC643529	2.497619	14.65958	0	40.3919
LOC643547	0	0	0	0



LOC64362:	0	0	0	0.443867
LOC64364:	0	0	0	0
LOC64365:	4.162698	29.31917	4.018438	27.51976
LOC64366:	64.93809	0	4.018438	2.219335
LOC64371:	5.827777	0	0	3.107069
LOC64372:	1.665079	2.443264	0	1.775468
LOC64373:	0	1.221632	12.05531	5.326404
LOC64377:	3.330158	4.886528	4.018438	0
LOC64380:	0	0	0	0.443867
LOC64383:	17.48333	10.38387	4.018438	9.765074
LOC64392:	0	0	4.018438	0
LOC64395:	0	0	0	0
LOC64410:	4.162698	0	0	0.443867
LOC64414:	0	0	0	0
LOC64417:	0	0	0	0.443867
LOC64418:	0	0	4.018438	0
LOC64424:	0	0	0	0.887734
LOC64424:	0	1.221632	0	0.443867
LOC64455:	0	0	0	0
LOC64464:	0	0	0	0.443867
LOC64465:	51.61745	25.65427	0	19.53015
LOC64466:	0	0	0	0
LOC64471:	0	0	0	0
LOC64483:	0	0	0	0.443867
LOC64493:	34.13412	14.65958	530.4338	31.51456
LOC64496:	0	1.832448	8.036876	5.326404
LOC64499:	0	1.832448	8.036876	0.887734
LOC64516:	3.330158	23.82182	0	14.64761
LOC64520:	0	0	4.018438	0.887734
LOC64521:	28.30635	65.96812	0	55.92724
LOC64524:	9.990475	31.76243	0	13.31601
LOC64535:	0	0	0	0
LOC64543:	0	0	0	0
LOC64543:	0	0	0	0
LOC64551:	5.827777	6.718975	0	12.42828
LOC64559:	1.665079	0	0	0
LOC64563:	190.6516	7.940607	4.018438	18.19855
LOC64567:	23.31111	10.38387	24.11063	20.41788
LOC64575:	0	0	0	0.443867
LOC64594:	0	0	0	0
LOC64616:	1.665079	0	0	0
LOC64621:	6.660317	6.718975	92.42408	8.87734
LOC64626:	0	0	0	0
LOC64627:	0.83254	0	4.018438	1.775468
LOC64632:	0	0	0	1.331601
LOC64632:	4.995237	32.37325	0	23.08108
LOC64647:	0.83254	6.718975	0	27.51976

LOC64649:	2.497619	0	4.018438	0
LOC64650:	0	0	0	0
LOC64657:	1.665079	80.62771	0	20.86175
LOC64662:	0	0.610816	0	0
LOC64662:	0	0	0	0
LOC64671:	17.48333	23.82182	24.11063	34.17776
LOC64673:	0	0	0	0
LOC64674:	0	0	0	0
LOC64676:	29.97142	16.49203	0	32.40229
LOC64681:	2.497619	0	4.018438	0
LOC64685:	55.78015	40.92467	0	61.25365
LOC64686:	0	0	0	1.331601
LOC64690:	0	0.610816	0	0.443867
LOC64693:	0	0	0	0
LOC64699:	5.827777	4.275712	48.22126	7.101872
LOC64701:	1.665079	0.610816	4.018438	0.443867
LOC64710:	0	0	0	0
LOC64732:	0	0	0	0.443867
LOC64758:	0	0	0	0
LOC64785:	0	0	0	0
LOC64794:	0	8.551423	0	3.107069
LOC64797:	315.5325	505.7556	4.018438	568.5937
LOC64869:	0	1.221632	0	0
LOC64874:	0.83254	1.221632	120.5531	6.658005
LOC64880:	0	0	0	0
LOC64898:	1.665079	51.91936	0	51.04471
LOC64913:	0	1.832448	0	0
LOC64933:	0	0	0	0
LOC64939:	0	0	0	0.887734
LOC65022:	0	0	0	0
LOC65029:	0	0	0	0
LOC65036:	0	1.221632	16.07375	0.443867
LOC65062:	4.995237	1.832448	8.036876	18.64241
LOC65227:	10.82301	11.6055	0	8.87734
LOC65306:	2.497619	0.610816	36.16594	3.550936
LOC65307:	0	0.610816	0	4.43867
LOC65316:	16.65079	20.15693	0	43.0551
LOC65348:	0	0	0	0
LOC65350:	0	0	0	0
LOC65351:	0	0	0	0
LOC65356:	1.665079	0.610816	0	1.331601
LOC65365:	0	0	12.05531	2.663202
LOC65371:	1.665079	0.610816	0	5.326404
LOC65378:	0.83254	0	0	0.443867
LOC65434:	5.827777	45.8112	0	33.73389
LOC65443:	147.3595	232.7209	0	182.8732
LOC67865:	75.7611	164.3095	0	139.8181

LOC72380	2.497619	0.610816	0	0.443867
LOC72767	0	0	0	0
LOC72771	1.665079	0	0	0
LOC72784	0	0	0	0
LOC72789	3.330158	1.221632	28.12907	1.775468
LOC72791	0	0	0	0
LOC72792	0	0	0	0
LOC72798	0	0	0	0
LOC72801	0	0	0	0
LOC72802	4.995237	16.49203	0	9.321207
LOC72804	0	0	0	0
LOC72806	0	0	0	0
LOC72808	0	0	0	0
LOC72817	12.48809	1.832448	0	5.770271
LOC72819	52.44999	20.76774	0	8.87734
LOC72821	0	1.832448	0	0
LOC72822	0	1.221632	0	0.887734
LOC72832	0.83254	1.221632	0	3.107069
LOC72834	3.330158	0.610816	0	0.887734
LOC72836	0	0	0	0
LOC72837	0	0	0	0
LOC72837	9.990475	3.664896	8.036876	2.663202
LOC72837	0	0	0	0
LOC72839	74.09602	15.2704	0	47.0499
LOC72839	0	0	0	0
LOC72840	0	0	0	0
LOC72840	0	0	0	0
LOC72840	0	0	0	0.443867
LOC72843	172.3357	136.212	4.018438	129.6092
LOC72843	0	0	0	0
LOC72846	2.497619	0.610816	0	2.219335
LOC72853	22.47857	7.940607	0	17.31081
LOC72855	75.7611	21.37856	0	19.97402
LOC72855	0	1.832448	0	1.331601
LOC72860	12.48809	0.610816	0	2.663202
LOC72861	3.330158	17.10285	52.23969	20.41788
LOC72864	3.330158	3.664896	8.036876	2.663202
LOC72864	49.95237	53.14099	4.018438	57.25885
LOC72871	0	0	0	0
LOC72872	0.83254	1.221632	0	1.331601
LOC72872	0	0	0	0.443867
LOC72873	24.97619	39.70304	4.018438	27.51976
LOC72873	0	0.610816	12.05531	0.443867
LOC72874	84.0865	51.30854	12.05531	48.3815
LOC72875	13.32063	6.718975	0	6.214138
LOC72875	35.7992	12.21632	518.3785	15.97921
LOC72881	8.325396	17.71366	8.036876	7.545739

LOC72885!	0	0	12.05531	0
LOC72887!	2.497619	0.610816	0	0.443867
LOC72897!	119.8857	9.773055	4.018438	5.770271
LOC72898!	0	0	0	1.775468
LOC72901!	56.61269	90.40076	0	61.25365
LOC72902!	0.83254	1.832448	12.05531	1.775468
LOC72904!	1.665079	1.832448	0	3.107069
LOC72905!	0	1.221632	0	0.443867
LOC72908!	0	1.221632	16.07375	1.775468
LOC72912!	0	0	0	0
LOC72915!	0	0.610816	0	0
LOC72917!	0	0	16.07375	0.443867
LOC72917!	0	1.221632	0	0.887734
LOC72917!	1.665079	3.05408	0	3.994803
LOC72923!	24.14365	11.6055	32.1475	18.19855
LOC72926!	0	0	0	0
LOC72944!	0	0	0	0
LOC72950!	0	0	0	0
LOC72951!	25.80873	3.664896	0	7.101872
LOC72960!	14.15317	3.664896	8.036876	11.98441
LOC72960!	0	0	0	0.443867
LOC72966!	0	0.610816	0	1.331601
LOC72967!	31.6365	119.1091	0	71.46259
LOC72968!	1.665079	2.443264	0	3.994803
LOC72973!	125.7135	19.54611	0	40.83577
LOC72973!	0	0.610816	0	0.443867
LOC72979!	2.497619	1.832448	40.18438	7.545739
LOC72985!	17.48333	52.53017	24.11063	36.3971
LOC72986!	0	0	0	0
LOC72991!	0.83254	0	0	0
LOC72995!	4.162698	0	0	0
LOC72996!	768.434	149.6499	12.05531	51.48857
LOC72997!	2.497619	14.04877	0	7.101872
LOC72998!	0	0	0	0.443867
LOC73009!	3.330158	21.98937	0	29.29522
LOC73010!	20.81349	15.88121	0	15.97921
LOC73010!	823.3816	144.1526	28.12907	150.0271
LOC73015!	0	0	0	0
LOC73022!	0	1.221632	0	0.443867
LOC73044!	0	0	0	0.887734
LOC73066!	0	3.05408	4.018438	1.331601
LOC73075!	0	0.610816	0	0
LOC73081!	0	0	4.018438	0
LOC73122!	0	3.05408	0	1.775468
LOC73127!	1.665079	2.443264	0	11.09668
LOC73142!	3.330158	0.610816	0	0.443867
LOC73177!	0.83254	0	0	0.443867

LOC73178!	0	0	0	0.443867
LOC73227!	0	0	0	0
LOC79015	0	0	0	0.443867
LOC80054	31.6365	0	20.09219	0
LOC81691	82.42142	79.40607	16.07375	36.84096
LOC84856	0	0	0	0.443867
LOC84931	0	2.443264	0	0.887734
LOC84989	10.82301	7.329791	0	6.214138
LOC90246	0	9.162239	0	31.07069
LOC90499	0	1.221632	0	0
LOC90784	69.10078	51.91936	4.018438	44.83057
LOC90834	2.497619	7.940607	0	19.53015
LOC91149	0	0	0	0
LOC91450	5.827777	0	0	1.775468
LOC91948	0	0	0	0
LOC92249	107.3976	100.1738	0	136.2672
LOC93432	9.990475	0	4.018438	0.443867
LOC93622	206.4698	180.1907	4.018438	144.7006
LOC96610	55.78015	51.91936	4.018438	44.83057
LOH12CR1	32.46904	106.282	32.1475	65.69232
LOH12CR2	1.665079	9.162239	0	8.87734
LONP1	1328.733	344.5002	345.5857	383.5011
LONP2	97.40713	264.4833	450.0651	187.7557
LONRF1	19.14841	46.42201	64.29501	29.29522
LONRF2	3.330158	28.70835	4.018438	42.61123
LONRF3	45.78968	37.25977	20.09219	27.51976
LOR	0.83254	0	8.036876	0.443867
LOX	18.31587	25.04345	56.25813	45.7183
LOXHD1	0	0	16.07375	0
LOXL1	166.5079	267.5374	2640.114	404.8067
LOXL2	7.492856	129.493	124.5716	138.0426
LOXL3	64.10555	115.4442	180.8297	185.5364
LOXL4	4.162698	95.8981	4.018438	90.54887
LPA	0	0	4.018438	0.443867
LPAL2	0	0	0	2.663202
LPAR1	9.990475	28.70835	92.42408	43.0551
LPAR2	762.6063	348.1651	4.018438	246.3462
LPAR3	0	10.38387	0	14.20374
LPAR4	0	0	8.036876	1.331601
LPAR5	60.77539	26.26509	12.05531	33.29003
LPAR6	76.59364	92.23321	245.1247	71.01872
LPCAT1	313.8674	547.9019	40.18438	814.9398
LPCAT2	43.29206	50.69772	100.461	54.59564
LPCAT3	451.2365	219.2829	305.4013	251.2287
LPCAT4	1302.924	641.9676	192.885	597.8889
LPGAT1	168.173	365.2679	229.051	346.2163
LPHN1	497.8587	18.93529	164.756	43.94283

LPHN2	6.660317	115.4442	108.4978	154.0219
LPHN3	0	2.443264	24.11063	11.09668
LPIN1	295.5516	72.6871	28.12907	61.69752
LPIN2	156.5174	301.1323	40.18438	380.394
LPIN3	306.3746	294.4133	112.5163	380.394
LPL	9.990475	2.443264	1563.172	31.07069
LPO	0	0	0	0.443867
LPP	304.7095	326.7865	64.29501	293.3961
LPP-AS2	24.14365	25.65427	52.23969	28.40749
LPPR1	0	0	16.07375	0.887734
LPPR2	278.9008	44.58956	80.36876	92.32434
LPPR3	1.665079	0.610816	20.09219	3.550936
LPPR4	0	0.610816	20.09219	0.443867
LPPR5	0	0	12.05531	0.443867
LPXN	41.62698	50.08691	614.821	126.5021
LRAT	0.83254	8.551423	0	10.65281
LRBA	184.8238	291.97	64.29501	288.9574
LRCH1	138.2016	116.6658	76.35032	74.56966
LRCH2	0	1.221632	36.16594	5.326404
LRCH3	9.990475	21.37856	40.18438	33.29003
LRCH4	698.5007	1022.506	450.0651	1834.059
LRFN1	0.83254	1.221632	40.18438	1.331601
LRFN2	0	0	36.16594	0.443867
LRFN3	24.97619	62.30323	32.1475	38.17256
LRFN4	1143.909	300.5214	128.59	280.524
LRFN5	0	0	32.1475	0
LRG1	648.5483	138.0444	56.25813	271.2027
LRGUK	11.65555	9.162239	0	17.31081
LRIF1	19.98095	45.8112	8.036876	57.70271
LRIG1	403.7817	14.65958	60.27657	20.86175
LRIG2	45.78968	40.92467	52.23969	38.61643
LRIG3	309.7047	159.423	64.29501	231.6986
LRIT1	0	0	4.018438	0
LRIT2	0	0	0	0
LRIT3	0	0	4.018438	7.989606
LRMP	27.47381	13.43795	60.27657	49.71311
LRP1	2176.258	604.7078	6112.044	1071.939
LRP10	1393.671	1397.547	377.7332	1014.68
LRP11	249.7619	151.4824	0	145.1445
LRP12	14.15317	4.275712	124.5716	14.64761
LRP1B	0	1.221632	8.036876	3.994803
LRP2	0	0.610816	12.05531	3.994803
LRP2BP	25.80873	7.329791	4.018438	12.87214
LRP3	1.665079	3.664896	164.756	15.97921
LRP4	21.64603	9.162239	88.40564	16.86695
LRP5	584.4428	662.1245	313.4382	668.0199
LRP5L	166.5079	19.54611	4.018438	17.31081

LRP6	31.6365	183.2448	168.7744	212.1684
LRP8	82.42142	95.28729	136.6269	62.58525
LRPAP1	850.0229	1087.252	221.0141	1142.07
LRPPRC	521.1698	568.6697	60.27657	397.7048
LRR1	109.8952	55.58425	8.036876	35.06549
LRRC1	169.8381	234.5533	56.25813	181.0977
LRRC10	0	0	0	0.443867
LRRC10B	4.162698	0	32.1475	0
LRRC14	502.8539	324.9541	168.7744	332.9003
LRRC14B	0	1.221632	4.018438	1.331601
LRRC15	0.83254	2.443264	16.07375	6.214138
LRRC16A	173.1682	226.6127	28.12907	187.7557
LRRC16B	24.14365	10.38387	52.23969	14.64761
LRRC17	4.995237	27.48672	176.8113	23.08108
LRRC18	0	1.832448	0	0
LRRC19	27.47381	77.57363	4.018438	53.70791
LRRC2	0.83254	0	12.05531	0.443867
LRRC20	121.5508	201.5693	8.036876	206.842
LRRC23	249.7619	189.9638	8.036876	144.2568
LRRC24	0	0	0	0
LRRC25	0.83254	0	0	0.887734
LRRC26	49.11984	10.99469	4.018438	31.51456
LRRC27	84.0865	88.56831	4.018438	63.47298
LRRC28	102.4024	52.53017	60.27657	38.61643
LRRC29	11.65555	31.15161	12.05531	26.63202
LRRC3	15.81825	0	8.036876	0
LRRC30	0	0	8.036876	0
LRRC31	99.90475	16.49203	0	8.433473
LRRC32	0	3.664896	4.018438	8.87734
LRRC33	42.45952	22.60019	574.6366	35.06549
LRRC34	18.31587	4.275712	0	7.101872
LRRC36	8.325396	10.38387	40.18438	14.64761
LRRC37A	0	0	0	0
LRRC37A2	0	0	0	0
LRRC37A3	3.330158	26.8759	0	39.94803
LRRC37A4	0.83254	31.76243	0	35.95323
LRRC37B	15.81825	10.99469	0	15.09148
LRRC37BP	20.81349	47.03283	4.018438	27.96362
LRRC38	0	0	20.09219	0
LRRC39	17.48333	9.162239	56.25813	15.53535
LRRC3B	0	0.610816	20.09219	0.443867
LRRC3C	0	0	4.018438	0
LRRC4	0.83254	6.718975	12.05531	3.994803
LRRC40	9.157935	36.64896	8.036876	25.74429
LRRC41	196.4793	287.0835	594.7288	296.0593
LRRC42	247.2643	309.6837	200.9219	210.393
LRRC43	9.157935	2.443264	8.036876	5.770271

LRRC45	646.0507	536.2964	168.7744	353.3181
LRRC46	40.79444	31.15161	0	24.85655
LRRC47	389.6285	326.7865	56.25813	255.6674
LRRC48	40.79444	22.60019	12.05531	15.97921
LRRC49	18.31587	17.10285	52.23969	27.51976
LRRC4B	0.83254	10.38387	36.16594	3.107069
LRRC4C	0.83254	0	20.09219	0.887734
LRRC52	0	0	0	1.331601
LRRC55	0	5.497344	20.09219	12.42828
LRRC56	157.35	35.42733	8.036876	41.27963
LRRC57	32.46904	71.46547	44.20282	85.66633
LRRC58	77.42618	53.7518	40.18438	48.3815
LRRC59	453.7341	1089.696	349.6041	914.3661
LRRC6	127.3786	3.664896	4.018438	4.882537
LRRC61	95.74205	180.1907	16.07375	93.65594
LRRC66	78.25872	76.96281	12.05531	80.7838
LRRC69	1.665079	9.773055	0	1.775468
LRRC7	0	1.832448	24.11063	3.107069
LRRC70	0.83254	4.275712	20.09219	0.887734
LRRC71	9.157935	2.443264	4.018438	2.219335
LRRC72	0	0	0	0
LRRC73	97.40713	6.10816	40.18438	8.433473
LRRC8A	324.6904	255.9319	297.3644	280.0801
LRRC8B	60.77539	57.4167	12.05531	72.79419
LRRC8C	48.2873	20.15693	80.36876	13.75988
LRRC8D	118.2206	113.001	132.6085	68.35552
LRRC8E	143.1968	80.62771	52.23969	69.24325
LRRC1	23.31111	64.13568	44.20282	41.27963
LRRD1	0	0	0	1.331601
LRRFIP1	809.2285	1078.701	261.1985	648.9336
LRRFIP2	502.0214	180.1907	859.9457	169.1133
LRRIQ1	33.30158	5.497344	8.036876	3.550936
LRRIQ3	0	10.38387	0	2.663202
LRRIQ4	6.660317	0	0	0
LRRK1	20.81349	89.78995	180.8297	167.3379
LRRK2	12.48809	28.70835	32.1475	39.94803
LRRN1	9.990475	75.74118	8.036876	105.6404
LRRN2	5.827777	15.2704	36.16594	24.85655
LRRN3	0	0.610816	0	0.443867
LRRN4	0.83254	2.443264	12.05531	9.321207
LRRN4CL	1.665079	0	0	0.887734
LRRTM1	0	0	24.11063	0
LRRTM2	0.83254	4.275712	32.1475	0.443867
LRRTM3	0	0	4.018438	0
LRRTM4	0	0.610816	28.12907	0.443867
LRSAM1	294.719	138.0444	24.11063	128.2776
LRTM1	0	0	0	0



LRTM2	3.330158	3.05408	0	0
LRTOMT	86.58412	85.51423	148.6822	62.14138
LRWD1	167.3405	447.1173	152.7006	309.8192
LSAMP	2.497619	5.497344	20.09219	3.550936
LSAMP-AS:	0	0	0	0
LSG1	872.5015	300.5214	100.461	281.4117
LSM1	239.7714	278.5321	132.6085	172.6643
LSM10	171.5032	210.1207	96.44251	114.0738
LSM11	4.995237	10.99469	64.29501	7.545739
LSM12	4.995237	12.21632	12.05531	10.20894
LSM14A	281.3984	442.2308	687.1529	291.6206
LSM14B	182.3262	251.0454	120.5531	256.999
LSM2	0	0	0	0
LSM3	352.9968	252.267	357.641	179.3223
LSM4	2968.004	1258.281	1129.181	802.9554
LSM5	233.1111	255.3211	345.5857	162.0115
LSM6	138.2016	150.2607	454.0835	73.23806
LSM7	1287.939	394.5871	502.3048	269.8711
LSMD1	431.2555	331.6731	381.7516	264.5447
LSP1	33.30158	30.5408	225.0325	47.93764
LSR	4589.791	3129.821	108.4978	2375.576
LSS	679.3523	517.9719	44.20282	240.5759
LST1	0	0	0	0
LTA	0	0	0	0
LTA4H	661.869	436.1226	1776.15	313.814
LTB	0	0	0	0
LTB4R	313.8674	66.57894	44.20282	160.236
LTB4R2	9.990475	0.610816	0	4.43867
LTBP1	20.81349	52.53017	132.6085	115.4054
LTBP2	20.81349	42.1463	8.036876	118.9564
LTBP3	599.4285	834.9854	614.821	864.2091
LTBP4	315.5325	130.1038	912.1854	233.9179
LTBR	1558.514	1597.895	40.18438	1502.934
LTC4S	67.43571	20.76774	393.8069	35.50936
LTF	3.330158	0	120.5531	7.545739
LTK	7.492856	31.15161	20.09219	129.1653
LTN1	34.96666	54.97344	96.44251	51.93244
LTV1	215.6278	155.1473	289.3275	108.7474
LUC7L	627.7348	484.3771	204.9403	478.4886
LUC7L2	356.3269	359.7706	578.6551	362.6394
LUC7L3	1306.255	1140.393	2210.141	936.1155
LUM	1.665079	10.99469	594.7288	44.83057
LURAP1	1.665079	0	4.018438	0
LURAP1L	79.9238	472.7715	184.8482	202.4034
LUST	3.330158	0.610816	0	21.74948
LUZP1	249.7619	174.6934	188.8666	252.5603
LUZP2	0	4.886528	8.036876	1.331601

LUZP4	0	0	0	0.887734
LUZP6	0	0	0	0
LXN	60.77539	59.85996	128.59	50.15697
LY6D	11.65555	1250.34	24.11063	1893.981
LY6E	11855.36	4995.253	116.5347	7260.333
LY6G5B	0	0	0	0
LY6G5C	0	0	0	0
LY6G6C	0	0	0	0
LY6G6D	0	0	0	0
LY6G6E	0	0	0	0
LY6G6F	0	0	0	0
LY6H	14.15317	0	72.33188	0
LY6K	0.83254	161.8662	0	69.68712
LY75	92.41189	59.85996	4.018438	54.59564
LY75-CD30	0	0	0	0
LY86	0	0	0	0.443867
LY86-AS1	0	0	0	0.887734
LY9	9.157935	2.443264	164.756	3.994803
LY96	0	0	0	2.219335
LYAR	171.5032	91.01158	48.22126	95.87528
LYG1	44.95714	20.76774	0	11.98441
LYG2	0	0.610816	0	1.331601
LYL1	20.81349	11.6055	221.0141	30.18296
LYN	635.2277	252.8778	204.9403	322.6913
LYNX1	269.7428	119.1091	4.018438	255.2235
LYPD1	0	6.718975	0	17.75468
LYPD2	694.338	17.10285	4.018438	195.7454
LYPD3	2.497619	348.1651	4.018438	194.4138
LYPD4	0	0.610816	4.018438	0
LYPD5	35.7992	44.58956	12.05531	30.18296
LYPD6	77.42618	90.40076	0	34.17776
LYPD6B	1233.824	483.1554	4.018438	165.5624
LYPLA1	48.2873	68.41139	24.11063	66.58005
LYPLA2	2248.689	805.6662	1068.905	731.9367
LYPLAL1	39.12936	134.9903	12.05531	61.69752
LYRM1	61.60793	123.3848	20.09219	73.68193
LYRM2	191.4841	99.563	48.22126	67.02392
LYRM4	116.5555	169.196	16.07375	95.43141
LYRM5	8.325396	31.15161	100.461	21.30562
LYRM7	18.31587	24.43264	0	10.65281
LYSMD1	34.96666	47.03283	72.33188	55.92724
LYSMD2	62.44047	73.90873	212.9772	86.1102
LYSMD3	31.6365	28.09753	0	39.94803
LYSMD4	188.1539	48.25446	12.05531	48.82537
LYST	39.9619	62.91404	92.42408	75.45739
LYVE1	0	0.610816	84.3872	0.887734
LYZ	13126.65	486.2095	5199.859	850.4492

LYZL1	0	0	0	0
LYZL2	0	0	0	0.443867
LYZL4	0	0	0	0.887734
LYZL6	0	0	0	0
LZIC	75.7611	123.3848	44.20282	76.78899
LZTFL1	79.09126	59.24915	68.31345	45.27444
LZTR1	636.0602	554.0101	442.0282	568.5937
LZTS1	0	1.832448	12.05531	0.443867
LZTS2	349.6666	171.6393	739.3926	203.735
M1	3.330158	0	0	0
M6PR	55.78015	294.4133	309.4197	369.7412
MAB21L1	1.665079	0	48.22126	1.331601
MAB21L2	0	1.832448	40.18438	0.887734
MAB21L3	0	3.05408	0	5.326404
MACC1	249.7619	205.845	16.07375	343.5531
MACF1	510.3468	1048.16	1438.601	1202.436
MACROD1	728.4721	339.6137	337.5488	166.0063
MACROD2	275.5706	48.86528	20.09219	56.81498
MACROD2	0	0	0	0
MAD1L1	188.9865	274.8672	120.5531	223.2651
MAD2L1	69.93332	178.3583	0	86.1102
MAD2L1BF	231.446	247.9913	156.7191	165.5624
MAD2L2	170.6706	196.0719	245.1247	131.8285
MADCAM1	0	0	0	0.443867
MADD	516.1745	203.4017	237.0878	220.6019
MAEA	652.711	529.5774	405.8622	717.733
MAEL	0	0	0	0.443867
MAF	16.65079	32.98406	1310.011	89.21727
MAF1	1433.633	863.6938	735.3742	704.417
MAFA	1.665079	0	24.11063	3.994803
MAFB	77.42618	64.74649	1944.924	103.8649
MAFF	250.5944	322.5108	32.1475	184.6487
MAFG	324.6904	174.0825	293.346	225.9283
MAFG-AS1	34.13412	32.98406	0	18.64241
MAFIP	0	7.329791	0	6.658005
MAFK	250.5944	171.6393	104.4794	277.8608
MAG	9.157935	0	76.35032	4.882537
MAGEA1	0	0.610816	0	0.443867
MAGEA10	0	0	0	0.887734
MAGEA10-	0.83254	0	0	0
MAGEA11	0	0	0	0.443867
MAGEA12	0	0	0	0.887734
MAGEA2	0	0	0	0
MAGEA2B	0	0	0	0
MAGEA3	0	0	0	0
MAGEA4	0	0	0	1.775468
MAGEA5	0	0	0	0.443867

MAGEA6	0	0	0	0.443867
MAGEA8	0	0.610816	0	0
MAGEA9	0	0	0	0
MAGEA9B	0	0	0	0
MAGEB1	0	0	0	0
MAGEB10	0	0	0	0
MAGEB16	0	0	0	0
MAGEB18	0	0	0	0
MAGEB2	0	0	0	0
MAGEB3	0	0	0	0
MAGEB4	0	0	0	0
MAGEB6	0	0	0	0
MAGEC1	0	1.221632	0	1.331601
MAGEC2	0	0.610816	0	0
MAGEC3	0.83254	0.610816	0	1.775468
MAGED1	1049	805.0554	4846.236	1115.882
MAGED2	445.4087	629.7512	960.4067	644.9388
MAGED4	0	0	0	0
MAGED4B	0	0	0	0
MAGEE1	3.330158	1.221632	40.18438	9.765074
MAGEE2	0	0	0	0
MAGEF1	510.3468	364.6571	4.018438	288.5136
MAGEH1	2.497619	10.38387	164.756	12.42828
MAGEL2	0	0	20.09219	0
MAGI1	141.5317	88.56831	184.8482	110.5229
MAGI2	23.31111	23.82182	36.16594	31.07069
MAGI2-AS	2.497619	5.497344	4.018438	5.326404
MAGI3	29.97142	62.91404	72.33188	55.48338
MAGIX	172.3357	75.74118	8.036876	68.79939
MAGOH	231.446	296.8566	389.7885	153.1341
MAGOHB	59.94285	156.9797	309.4197	88.32954
MAGT1	92.41189	532.6315	76.35032	390.1591
MAK	19.98095	4.886528	0	3.107069
MAK16	33.30158	76.35199	56.25813	81.22766
MAL	0	0	20.09219	1.775468
MAL2	958.2531	1806.794	48.22126	1643.64
MALAT1	948.2626	3316.12	2165.938	1336.484
MALL	4.995237	6.10816	24.11063	13.75988
MALSU1	164.0103	307.2404	454.0835	179.7661
MALT1	14.98571	81.23852	24.11063	94.54367
MAMDC2	2.497619	20.15693	36.16594	9.321207
MAMDC4	256.4222	244.3264	12.05531	125.6144
MAML1	146.527	125.8281	148.6822	157.1289
MAML2	4.995237	34.20569	36.16594	43.94283
MAML3	44.1246	51.30854	28.12907	56.37111
MAMLD1	17.48333	53.7518	44.20282	62.14138
MAMSTR	3.330158	14.65958	8.036876	9.765074

MAN1A1	10.82301	51.30854	381.7516	79.00833
MAN1A2	29.97142	58.63833	40.18438	64.36072
MAN1B1	986.5594	521.026	48.22126	443.867
MAN1C1	10.82301	13.43795	249.1432	31.51456
MAN2A1	9.990475	34.20569	76.35032	45.7183
MAN2A2	377.1404	156.9797	100.461	321.8036
MAN2B1	800.9031	385.4249	1000.591	644.051
MAN2B2	367.15	271.8131	156.7191	349.7672
MAN2C1	584.4428	712.8222	646.9685	1043.531
MANBA	174.0008	565.6156	48.22126	394.5978
MANBAL	457.8968	641.3568	204.9403	401.2558
MANEA	2.497619	16.49203	16.07375	17.31081
MANEAL	79.09126	103.8387	12.05531	67.46779
MANF	1161.393	1048.16	1458.693	804.7309
MANSC1	114.0579	1139.172	48.22126	640.944
MANSC4	0	0	0	0.443867
MAOA	305.542	105.6712	140.6453	89.66114
MAOB	70.76586	56.80588	56.25813	27.07589
MAP1A	49.11984	7.940607	92.42408	21.30562
MAP1B	3.330158	31.15161	233.0694	69.24325
MAP1LC3A	270.5754	244.3264	1627.467	312.4824
MAP1LC3B	457.0642	205.2342	16.07375	212.1684
MAP1LC3E	10.82301	3.664896	64.29501	3.107069
MAP1LC3C	0	0	0	0.443867
MAP1S	317.1976	182.0232	132.6085	165.5624
MAP2	8.325396	4.275712	20.09219	7.989606
MAP2K1	131.5413	274.2564	425.9544	344.4408
MAP2K2	1469.432	577.8319	996.5726	409.2454
MAP2K3	1551.854	482.5446	353.6225	411.4647
MAP2K4	74.09602	95.28729	204.9403	97.65074
MAP2K5	58.27777	66.57894	562.5813	100.7578
MAP2K6	100.7373	20.15693	16.07375	72.35032
MAP2K7	511.1793	146.5958	233.0694	177.1029
MAP3K1	72.43094	108.1144	494.2679	144.7006
MAP3K10	144.8619	121.5524	731.3557	158.0167
MAP3K11	1322.073	882.0182	695.1898	801.18
MAP3K12	6.660317	11.6055	56.25813	51.04471
MAP3K13	397.1214	214.3964	24.11063	221.4896
MAP3K14	119.8857	90.40076	20.09219	103.421
MAP3K15	3.330158	1.832448	16.07375	4.43867
MAP3K2	75.7611	141.0985	112.5163	169.1133
MAP3K3	41.62698	72.07628	341.5672	114.0738
MAP3K4	214.7952	112.3901	221.0141	110.079
MAP3K5	173.1682	252.267	68.31345	185.5364
MAP3K6	476.2126	332.2839	221.0141	307.5998
MAP3K7	119.0532	98.34137	140.6453	107.8597
MAP3K8	87.41666	52.53017	108.4978	80.33993

MAP3K9	15.81825	28.70835	72.33188	56.37111
MAP4	1650.093	738.4765	747.4295	669.3515
MAP4K1	55.78015	3.664896	486.231	12.42828
MAP4K2	134.0389	151.4824	96.44251	184.2048
MAP4K3	34.96666	66.57894	176.8113	83.89087
MAP4K4	732.6348	824.6015	2065.477	883.7392
MAP4K5	58.27777	135.6011	116.5347	197.077
MAP6	9.990475	2.443264	68.31345	7.989606
MAP6D1	49.11984	6.10816	0	6.214138
MAP7	82.42142	136.8228	12.05531	98.53848
MAP7D1	1018.196	579.6643	1659.615	729.7174
MAP7D2	20.81349	3.664896	4.018438	19.53015
MAP7D3	15.81825	8.551423	0	10.65281
MAP9	19.98095	12.82714	92.42408	12.42828
MAPK1	442.9111	502.0907	494.2679	347.9917
MAPK10	31.6365	25.65427	12.05531	27.07589
MAPK11	5.827777	72.07628	24.11063	97.20688
MAPK12	0	30.5408	229.051	36.84096
MAPK13	263.915	483.7662	64.29501	384.8327
MAPK14	125.7135	205.845	273.2538	307.156
MAPK15	2923.879	47.03283	20.09219	116.737
MAPK1IP1	144.0293	200.9584	144.6638	156.2412
MAPK3	947.43	529.5774	3524.17	457.6269
MAPK4	0	0	20.09219	0
MAPK6	34.96666	69.0222	84.3872	132.2724
MAPK7	338.8436	86.12505	494.2679	106.972
MAPK8	30.80396	50.08691	56.25813	58.14658
MAPK8IP1	112.3928	23.82182	32.1475	32.84616
MAPK8IP2	6.660317	109.3361	52.23969	55.03951
MAPK8IP3	1072.311	375.6518	297.3644	761.6758
MAPK9	218.9579	149.6499	470.1573	150.9148
MAPKAP1	369.6476	306.0188	502.3048	236.1373
MAPKAPK2	1479.423	1186.205	920.2223	1045.307
MAPKAPK3	310.5373	158.8121	84.3872	150.4709
MAPKAPK5	241.4365	145.3742	695.1898	143.369
MAPKBP1	28.30635	68.41139	52.23969	111.4106
MAPRE1	269.7428	621.1998	791.6323	486.0344
MAPRE2	61.60793	127.0497	293.346	110.079
MAPRE3	143.1968	8.551423	116.5347	35.50936
MAPT	0	0.610816	0	1.331601
MAPT-AS1	0	0	0	0
MAPT-IT1	0	0	0	0
1-Mar	164.8428	121.5524	24.11063	75.90126
2-Mar	65.77063	119.1091	116.5347	139.3742
1-Mar	7.492856	14.04877	28.12907	22.19335
10-Mar	0.83254	3.05408	0	8.433473
11-Mar	0	0	0	0

2-Mar	149.0246	163.0879	482.2126	134.4917
3-Mar	60.77539	45.20038	208.9588	65.24845
4-Mar	0	0	0	0.443867
5-Mar	89.08173	138.0444	755.4664	119.4002
6-Mar	497.8587	436.7334	204.9403	450.0812
7-Mar	43.29206	130.1038	140.6453	156.6851
8-Mar	6.660317	3.05408	32.1475	14.64761
9-Mar	273.9055	109.3361	84.3872	101.6455
MARCKS	296.3841	413.5224	5127.527	441.6477
MARCKSL1	4101.09	3916.552	1527.006	2761.741
MARCO	0	0.610816	0	2.663202
MARK1	8.325396	5.497344	92.42408	17.31081
MARK2	554.4714	386.0357	691.1713	490.4731
MARK2P9	0	0	0	1.331601
MARK3	337.1785	554.0101	928.2592	545.5126
MARK4	73.26348	163.6987	124.5716	157.1289
MARS	994.0523	367.7112	538.4707	452.7444
MARS2	39.9619	34.81651	8.036876	47.93764
MARVELD1	216.4603	27.48672	56.25813	36.84096
MARVELD2	4.162698	25.65427	0	34.17776
MARVELD3	172.3357	166.1419	0	98.98235
MAS1	0	0	0	0
MAS1L	0	0	0	0
MASP1	3.330158	83.07097	0	51.04471
MASP2	39.12936	7.940607	132.6085	24.41269
MAST1	38.29682	2.443264	56.25813	11.54054
MAST2	443.7436	953.4837	160.7375	514.8857
MAST3	198.977	34.20569	88.40564	67.46779
MAST4	84.0865	32.37325	128.59	64.80458
MASTL	61.60793	122.774	4.018438	114.9616
MAT1A	11.65555	0.610816	8.036876	0.443867
MAT2A	716.8166	978.5272	755.4664	1177.579
MAT2B	142.3643	232.1101	719.3004	166.894
MATK	46.62222	9.773055	630.8948	5.326404
MATL2963	45.78968	55.58425	4.018438	67.91165
MATN1	1.665079	0	4.018438	1.331601
MATN2	369.6476	131.9362	361.6594	83.89087
MATN3	2.497619	7.329791	8.036876	4.882537
MATN4	79.9238	4.275712	184.8482	14.20374
MATR3	191.4841	475.8256	755.4664	360.42
MAU2	320.5277	153.9256	136.6269	245.4585
MAVS	706.8261	687.7788	8.036876	733.7122
MAX	234.7762	167.3636	1727.928	225.9283
MAZ	1967.291	1109.853	1748.021	1172.697
MB	4.162698	249.2129	60.27657	157.5728
MB21D1	10.82301	26.26509	4.018438	13.31601
MB21D2	10.82301	32.98406	36.16594	22.63722

MBD1	231.446	187.5205	100.461	336.4512
MBD2	313.0349	329.2298	1687.744	344.4408
MBD3	1467.767	528.9666	1020.683	499.7943
MBD3L1	0	0	0	0
MBD3L2	0	0	0	0
MBD3L3	0	0	0	0
MBD3L4	0	0	0	0
MBD3L5	0	0	0	0
MBD4	289.7238	142.3201	12.05531	162.8992
MBD5	20.81349	57.4167	92.42408	53.26404
MBD6	1091.459	147.2066	1185.439	329.3493
MBIP	43.29206	48.86528	96.44251	60.36591
MBL1P	0.83254	0	0	0
MBL2	0	0	0	0
MBLAC1	17.48333	50.69772	16.07375	15.53535
MBLAC2	4.995237	7.940607	28.12907	13.31601
MBNL1	369.6476	251.0454	3090.179	331.1248
MBNL2	108.2301	125.8281	932.2776	186.868
MBNL3	47.45476	91.01158	4.018438	67.46779
MBOAT1	218.1254	129.493	0	123.8389
MBOAT2	203.9722	96.50892	12.05531	130.9408
MBOAT4	1.665079	4.275712	12.05531	4.43867
MBOAT7	899.1427	929.0511	112.5163	644.051
MBP	158.1825	202.1801	265.2169	146.4761
MBTD1	44.1246	67.80057	208.9588	98.09461
MBTPS1	418.7674	410.4683	630.8948	478.0448
MBTPS2	21.64603	39.09222	20.09219	32.84616
MC1R	304.7095	65.35731	0	90.105
MC2R	0	0	0	0
MC3R	0	0	12.05531	0
MC4R	0	0	16.07375	0
MC5R	0	0	0	0
MCAM	17.48333	192.407	176.8113	566.3743
MCART1	9.157935	41.53548	24.11063	46.60604
MCART2	0	0	0	0
MCART3P	0	0	4.018438	0
MCART6	0.83254	3.05408	0	3.107069
MCAT	581.1126	382.9816	40.18438	171.7765
MCC	4.162698	9.773055	28.12907	20.86175
MCCC1	371.3127	195.4611	112.5163	149.5832
MCCC2	372.9777	294.4133	80.36876	380.394
MCCD1	0	0	0	0.443867
MCEE	59.94285	82.46015	176.8113	72.35032
MCF2	2.497619	0	16.07375	0.887734
MCF2L	99.90475	21.98937	48.22126	84.7786
MCF2L-AS1	0	1.832448	0	6.214138
MCF2L2	0	3.05408	0	4.882537



MCFD2	89.08173	291.97	88.40564	351.0988
MCHR1	0	0	0	0.443867
MCHR2	0	0	0	0
MCL1	1045.67	1344.406	1133.2	1451.445
MCM10	22.47857	71.46547	8.036876	43.94283
MCM2	955.7554	300.5214	88.40564	240.5759
MCM3	985.7269	610.816	237.0878	443.4232
MCM3AP	388.796	241.2723	92.42408	317.3649
MCM3AP-)	0.83254	3.664896	0	6.658005
MCM4	861.6785	432.4577	80.36876	283.631
MCM5	879.1618	488.6528	156.7191	296.0593
MCM6	332.1833	323.7325	92.42408	171.7765
MCM7	2345.264	3483.483	446.0466	2602.836
MCM8	43.29206	93.45484	28.12907	69.68712
MCM9	24.97619	27.48672	8.036876	22.19335
MCMBP	243.1016	189.9638	124.5716	132.2724
MCOLN1	295.5516	139.8769	317.4566	152.2464
MCOLN2	2.497619	4.886528	20.09219	3.994803
MCOLN3	22.47857	0	4.018438	2.663202
MCPH1	22.47857	68.41139	0	42.16737
MCRS1	1237.154	322.5108	1583.265	327.5739
MCTP1	4.995237	3.664896	44.20282	33.73389
MCTP2	135.704	73.90873	16.07375	105.1965
MCTS1	253.092	523.4693	723.3188	255.6674
MCU	500.3563	369.5437	68.31345	268.9834
MDC1	0	0	0	0
MDFI	320.5277	134.9903	72.33188	174.4397
MDFIC	20.81349	122.774	16.07375	122.0634
MDGA1	14.15317	14.04877	96.44251	12.87214
MDGA2	2.497619	0	24.11063	0
MDH1	630.2325	838.6503	2431.155	535.3036
MDH1B	10.82301	10.99469	0	15.09148
MDH2	2239.531	1613.776	1844.463	1241.496
MDK	1466.935	420.8522	1506.914	867.3162
MDM1	25.80873	23.21101	20.09219	23.52495
MDM2	124.8809	69.63302	120.5531	82.1154
MDM4	105.7325	172.8609	76.35032	252.1165
MDN1	76.59364	122.774	92.42408	146.0322
MDP1	12.48809	37.25977	0	10.65281
MDS2	0	0	0	0
ME1	24.14365	55.58425	104.4794	36.3971
ME2	47.45476	3.05408	76.35032	4.882537
ME3	243.1016	254.0994	212.9772	244.1269
MEA1	409.6095	480.7122	1486.822	334.6757
MEAF6	121.5508	225.3911	245.1247	188.6435
MECOM	540.3182	169.196	180.8297	144.7006
MECP2	231.446	490.4852	401.8438	404.8067

MECR	283.0635	157.5905	140.6453	97.20688
MED1	120.7182	212.564	249.1432	212.6123
MED10	373.8103	236.9966	208.9588	203.2911
MED11	83.25396	203.4017	245.1247	107.8597
MED12	228.1158	213.1748	514.3601	285.8504
MED12L	0	4.886528	16.07375	3.107069
MED13	38.29682	144.7634	269.2353	166.0063
MED13L	30.80396	53.14099	168.7744	75.01353
MED14	84.0865	70.85465	92.42408	128.2776
MED15	1918.171	1018.23	281.2907	891.285
MED16	703.4959	313.9594	148.6822	189.0873
MED17	64.93809	135.6011	261.1985	128.7214
MED18	147.3595	136.8228	32.1475	82.1154
MED19	150.6897	168.5852	80.36876	109.6352
MED20	73.26348	102.6171	68.31345	73.68193
MED21	77.42618	161.2554	518.3785	108.3036
MED22	321.3603	180.8015	96.44251	133.604
MED23	64.93809	56.19507	60.27657	120.288
MED24	519.5047	463.6093	389.7885	470.0552
MED25	442.0785	373.2085	671.0792	283.1872
MED26	91.57935	39.09222	96.44251	45.27444
MED27	190.6516	56.80588	44.20282	47.93764
MED28	149.0246	213.7856	1490.841	191.7506
MED29	272.2404	531.4099	329.5119	287.182
MED30	70.76586	91.62239	357.641	60.36591
MED31	17.48333	29.92998	152.7006	31.51456
MED4	146.527	209.5099	221.0141	123.8389
MED6	56.61269	146.5958	233.0694	130.4969
MED7	73.26348	113.6118	245.1247	78.1206
MED8	340.5087	260.8184	450.0651	231.2547
MED9	69.10078	71.46547	180.8297	83.89087
MEF2A	181.4936	149.6499	582.6735	292.0645
MEF2B	0	0	0	0
MEF2BNB	124.0484	57.4167	0	65.24845
MEF2BNB-	0	0	0	0
MEF2C	19.98095	34.20569	574.6366	39.94803
MEF2D	327.1881	156.3689	265.2169	222.3774
MEFV	0.83254	0	0	3.107069
MEG3	0	0.610816	16.07375	5.770271
MEG8	0	0	0	0
MEGF10	0	3.05408	28.12907	10.65281
MEGF11	9.157935	40.92467	16.07375	88.7734
MEGF6	372.9777	3655.123	32.1475	5091.155
MEGF8	96.57459	320.0676	241.1063	323.1352
MEGF9	15.81825	23.82182	20.09219	35.06549
MEI1	10.82301	4.275712	8.036876	7.545739
MEIG1	0	3.664896	0	1.775468

MEIS1	243.1016	130.7146	225.0325	146.92
MEIS2	39.12936	138.6552	221.0141	213.0562
MEIS3	1.665079	3.664896	80.36876	12.87214
MEIS3P1	2.497619	20.76774	4.018438	15.97921
MELK	154.8524	247.9913	8.036876	172.2204
MEMO1	19.14841	36.03814	68.31345	33.73389
MEN1	267.2452	238.2182	168.7744	335.1196
MEOX1	6.660317	4.886528	48.22126	7.989606
MEOX2	0	1.832448	204.9403	8.433473
MEP1A	1.665079	0	4.018438	0
MEP1B	3.330158	0.610816	0	0
MEPCE	677.6872	781.2336	518.3785	873.9742
MEPE	0	0	0	0
MERTK	3.330158	14.04877	48.22126	43.0551
MESDC1	137.369	299.2998	683.1345	324.9107
MESDC2	116.5555	491.7068	72.33188	458.0708
MESP1	12.48809	91.01158	0	146.92
MESP2	2.497619	6.718975	8.036876	15.53535
MEST	56.61269	589.4374	44.20282	196.6331
MESTIT1	0	0	0	1.331601
MET	319.6952	824.6015	68.31345	792.7465
METAP1	233.1111	360.9922	241.1063	252.1165
METAP1D	77.42618	40.31385	313.4382	46.60604
METAP2	273.073	261.4292	1165.347	168.2256
METRN	227.2833	122.1632	269.2353	84.33473
METRNL	661.0364	136.212	538.4707	202.8472
METTL1	343.0063	152.0932	88.40564	95.87528
METTL10	60.77539	55.58425	184.8482	42.16737
METTL11A	165.6754	104.4495	196.9035	116.2932
METTL11B	0	0.610816	0	3.107069
METTL12	98.23967	29.31917	0	17.31081
METTL13	228.1158	440.3983	68.31345	291.6206
METTL14	26.64127	68.41139	64.29501	76.34513
METTL15	31.6365	15.2704	16.07375	14.64761
METTL16	98.23967	113.001	36.16594	81.22766
METTL17	431.2555	386.0357	506.3232	421.2298
METTL18	25.80873	85.51423	32.1475	56.81498
METTL19	120.7182	54.97344	40.18438	63.02912
METTL20	3.330158	26.26509	88.40564	27.07589
METTL21A	34.13412	76.96281	40.18438	56.37111
METTL21B	25.80873	30.5408	4.018438	35.06549
METTL21C	0	0	20.09219	0
METTL21C	0	0.610816	0	0
METTL21D	48.2873	44.58956	100.461	39.94803
METTL22	64.93809	81.84934	64.29501	67.46779
METTL23	147.3595	262.6509	253.1616	137.1549
METTL24	0	2.443264	8.036876	0

METTL2A	33.30158	108.1144	4.018438	52.82018
METTL2B	27.47381	68.41139	16.07375	50.60084
METTL3	224.7857	205.845	200.9219	213.0562
METTL4	21.64603	55.58425	24.11063	81.67153
METTL5	76.59364	244.3264	100.461	98.09461
METTL6	45.78968	32.98406	92.42408	32.40229
METTL7A	134.0389	158.8121	96.44251	100.7578
METTL7B	290.5563	163.0879	24.11063	62.14138
METTL8	50.78491	56.19507	4.018438	48.3815
METTL9	253.9246	452.0038	1281.882	290.289
MEX3A	14.98571	29.92998	28.12907	83.447
MEX3B	0	4.886528	72.33188	17.31081
MEX3C	40.79444	32.98406	385.7701	38.61643
MEX3D	86.58412	204.0125	28.12907	133.604
MFAP1	74.09602	271.8131	470.1573	257.8867
MFAP2	8.325396	12.21632	273.2538	31.95843
MFAP3	34.96666	84.2926	28.12907	76.34513
MFAP3L	3.330158	1.832448	16.07375	4.43867
MFAP4	29.13889	59.85996	787.6139	168.6695
MFAP5	102.4024	134.3795	1153.292	173.552
MFF	202.3071	289.5268	526.4154	239.6882
MFGE8	194.8143	43.97875	827.7982	93.65594
MFHAS1	9.157935	67.80057	92.42408	65.24845
MFI2	258.9198	867.3587	8.036876	946.3245
MFI2-AS1	84.91904	47.64364	4.018438	41.7235
MFN1	144.0293	127.0497	96.44251	138.9304
MFN2	523.6674	378.7059	92.42408	506.0084
MFNG	114.0579	65.96812	132.6085	61.69752
MFRP	0	0	0	0
MFSD1	205.6373	156.3689	196.9035	164.2308
MFSD10	2976.329	1463.515	120.5531	1657.399
MFSD11	116.5555	219.8937	216.9957	199.7402
MFSD12	792.5777	334.7271	28.12907	299.1664
MFSD2A	372.9777	23.21101	24.11063	67.91165
MFSD2B	0	0	0	0
MFSD3	924.1189	436.1226	20.09219	346.2163
MFSD4	45.78968	296.8566	24.11063	154.4657
MFSD5	365.4849	257.1535	610.8026	170.0011
MFSD6	112.3928	249.2129	56.25813	248.5655
MFSD6L	32.46904	0.610816	40.18438	1.775468
MFSD7	54.11507	33.59488	36.16594	64.80458
MFSD8	76.59364	61.0816	16.07375	56.81498
MFSD9	38.29682	36.03814	4.018438	40.83577
MGA	85.75158	125.8281	136.6269	204.6227
MGAM	4.162698	25.65427	24.11063	29.73909
MGAT1	987.3919	643.1892	216.9957	529.9772
MGAT2	124.8809	210.7315	405.8622	181.5416

MGAT3	261.4174	117.8875	80.36876	101.6455
MGAT4A	45.78968	166.7528	16.07375	223.709
MGAT4B	3706.466	1980.876	1177.402	1663.17
MGAT4C	0	0	0	0
MGAT5	454.5666	312.127	24.11063	521.9876
MGAT5B	5.827777	1.221632	28.12907	2.219335
MGC1291€	0	0	0	0
MGC1298¿	46.62222	16.49203	0	20.86175
MGC1443€	0	0.610816	0	0.443867
MGC1588€	0	0.610816	0	0
MGC1602€	6.660317	1.832448	0	1.331601
MGC1612¿	52.44999	0	0	0
MGC1614¿	0.83254	0	0	2.663202
MGC1627€	19.14841	17.71366	0	6.658005
MGC1670€	0	1.832448	0	0
MGC2188¿	4.162698	9.162239	0	9.321207
MGC2327€	3.330158	14.04877	0	14.64761
MGC2328¿	6.660317	29.92998	0	11.98441
MGC2734€	49.95237	34.81651	0	31.51456
MGC2738¿	0	0	0	0.443867
MGC2752	164.0103	222.337	0	79.89606
MGC2889	0	1.832448	0	0
MGC3403¿	0	0.610816	0	0
MGC3771	2.497619	3.664896	0	1.331601
MGC3937¿	3.330158	5.497344	0	16.86695
MGC3958¿	0	0	0	0
MGC4473	0	0	0	0
MGC4580€	0	12.82714	8.036876	4.882537
MGC4592¿	0	0.610816	0	0.887734
MGC5734€	4.162698	9.162239	0	8.87734
MGC7087€	7.492856	11.6055	12.05531	12.87214
MGC7208€	74.09602	47.64364	0	38.17256
MGEA5	1039.009	434.2901	618.8395	489.5853
MGLL	1231.326	1024.338	144.6638	823.3733
MGMT	834.2047	582.1076	52.23969	283.631
MGP	9.990475	20.76774	208.9588	51.93244
MGRN1	498.6912	354.2733	273.2538	414.5718
MGST1	561.1317	3977.023	329.5119	2995.659
MGST2	1142.244	799.5581	36.16594	468.7236
MGST3	901.6404	1878.259	333.5304	601.4398
MIA	168.173	0	0	0
MIA-RAB4I	0	0	0	0
MIA2	0	0.610816	0	12.42828
MIA3	199.8095	226.6127	494.2679	409.6893
MIAT	0	5.497344	20.09219	10.65281
MIB1	54.94761	55.58425	148.6822	61.69752
MIB2	1155.565	423.2955	454.0835	416.3473

MICA	59.11031	2.443264	0	1.331601
MICAL1	803.4007	251.0454	462.1204	300.498
MICAL2	107.3976	61.69241	12.05531	106.0842
MICAL3	313.0349	274.2564	108.4978	272.5343
MICALCL	3.330158	3.664896	56.25813	3.550936
MICALL1	250.5944	421.463	64.29501	290.289
MICALL2	2941.362	1049.382	92.42408	1415.936
MICB	0	0	0	0
MICU1	258.0873	436.1226	502.3048	340.8899
MID1	125.7135	81.23852	120.5531	97.65074
MID1IP1	525.3325	236.9966	667.0607	186.868
MID2	2.497619	25.65427	56.25813	27.96362
MIDN	870.0039	456.2795	36.16594	537.0791
MIEN1	805.8983	660.9029	859.9457	408.3577
MIER1	57.44523	67.18975	104.4794	75.90126
MIER2	367.9825	84.2926	8.036876	126.0582
MIER3	25.80873	34.20569	152.7006	58.14658
MIF	0	0	0	0
MIF4GD	103.2349	209.5099	305.4013	113.1861
MIIP	606.9214	253.4886	44.20282	216.6071
MILR1	0	100.1738	4.018438	70.13099
MIMT1	0	0	0	0
MINA	230.6135	215.0072	92.42408	188.1996
MINK1	526.9976	588.2158	1193.476	640.944
MINOS1	631.065	467.885	904.1486	305.8244
MINPP1	19.98095	53.14099	24.11063	35.06549
MIOS	83.25396	173.4717	349.6041	151.3587
MIOX	19.14841	58.63833	4.018438	49.71311
MIP	0.83254	0	0	2.219335
MIPEP	196.4793	138.6552	48.22126	78.1206
MIPOL1	20.81349	41.53548	16.07375	19.08628
MIR1-1	0	0	0	0
MIR1-2	0	0	4.018438	0
MIR100	0	0	0	0
MIR100HG	0	1.221632	0	0.443867
MIR101-1	0	0	0	0
MIR101-2	0	0.610816	4.018438	0
MIR103A1	0	0	0	0
MIR103A2	0	0	0	0
MIR103B1	0	0	0	0
MIR103B2	0	0	0	0
MIR105-1	0	0	0	0
MIR105-2	0	0	0	0
MIR106A	0	0	0	0
MIR106B	4.995237	1.832448	4.018438	3.550936
MIR107	0	0	0	0
MIR10A	0	0.610816	0	0

MIR10B	0	0	0	0
MIR1178	0	0	0	0
MIR1179	0	0	0	0
MIR1180	0	0	0	0.887734
MIR1181	0	0	0	0
MIR1182	0	0	0	0
MIR1184-1	0	0	0	0
MIR1184-2	0	0	0	0
MIR1184-3	0	0	0	0
MIR1185-1	0	0	0	0
MIR1185-2	0	0	0	0
MIR1193	0	0	0	0
MIR1197	0	0	0	0
MIR1200	0	0	0	0
MIR1203	0	0	0	0
MIR1204	0	0	0	0.443867
MIR1205	0	0	0	0
MIR1206	0	0	0	0.443867
MIR1207	0	0	0	0
MIR1208	0	0	0	0
MIR122	0	0	0	0
MIR1224	0	0	0	0
MIR1225	0	0	4.018438	0
MIR1226	0	0	0	0
MIR1227	1.665079	0	0	0.443867
MIR1228	0	0	0	0
MIR1229	2.497619	0.610816	0	0.887734
MIR1231	0	0	0	0
MIR1233-1	0	0	0	0
MIR1233-2	0	0	0	0
MIR1234	0	0	0	0
MIR1236	0	0	0	0
MIR1237	0	0	0	0
MIR1238	0.83254	0	0	0
MIR124-1	0	0	0	0
MIR124-2	0	0	0	0
MIR124-3	0	0	0	0
MIR1243	0	0	0	0
MIR1244-1	0	0	0	0
MIR1244-2	0	0	0	0
MIR1244-3	0	0	0	0
MIR1245A	0	0	0	0
MIR1245B	0	0	0	0
MIR1246	0	0	0	0
MIR1247	0.83254	10.99469	0	5.770271
MIR1248	0	0	0	0
MIR1249	1.665079	0	0	0.887734

MIR1250	0	0	0	0
MIR1251	0	0	0	0
MIR1252	0	0	0	0
MIR1253	0	0	0	0
MIR1256	0.83254	0	0	0
MIR1257	0	0	0	0
MIR1258	0	0	0	0
MIR125A	0	0	0	0
MIR125B1	0	0	0	0.443867
MIR125B2	0	0	0	0
MIR126	0	0	0	1.331601
MIR1260A	0	0	0	0
MIR1260B	0	0	0	0
MIR1262	0	0	0	0
MIR1264	0	0	0	0
MIR1265	0	0	0	0
MIR1266	0	0	0	0
MIR127	0	0	0	0
MIR1270-1	0	0	0	0
MIR1270-2	0	0	0	0
MIR1272	0	0	0	0
MIR1275	0	0	0	0
MIR1276	0	0.610816	0	0
MIR1277	0	0	0	0
MIR1278	0	0	0	0
MIR1279	0	0	0	0
MIR128-1	0	0	0	0
MIR128-2	0	0	0	0
MIR1280	0	0	0	0
MIR1281	0.83254	0.610816	8.036876	0.887734
MIR1282	0	0	0	0
MIR1283-1	0	0	0	0
MIR1283-2	0	0	0	0
MIR1284	0	0	0	0
MIR1286	0	0	0	0
MIR1287	0	0	0	0
MIR1288	0	0	0	0
MIR1289-2	0	0	0	0
MIR129-1	0	0	0	0
MIR129-2	0	0	0	0
MIR1291	0	0	0	0
MIR1292	0	0	4.018438	0
MIR1293	0	0	0	0
MIR1295A	0	0	0	0
MIR1296	0	0	0	0
MIR1297	0	0	0	0
MIR1298	0	0	0	0



MIR1301	0	0.610816	0	0.443867
MIR1304	16.65079	6.10816	0	10.65281
MIR1305	0	0	0	0
MIR1306	0	0	0	0
MIR1307	0	0	0	0
MIR130A	0	0	16.07375	0
MIR130B	0	0.610816	8.036876	0
MIR132	0	0.610816	0	0
MIR1322	0	0	0	0
MIR1323	0	0	0	0
MIR1324	0	0	0	0
MIR133A1	0	0	0	0
MIR133A2	0	0	0	0
MIR133B	0	0	0	0
MIR134	0	0	0	0
MIR1343	0	0	0	0
MIR135A1	0	0	0	0
MIR135A2	0	0	0	0
MIR135B	0	0	0	0.443867
MIR136	0	0	0	0
MIR137	0	0	0	0
MIR137HG	0	0	4.018438	0
MIR138-1	0	0	8.036876	0.443867
MIR138-2	0	0	0	0
MIR139	0	0	0	0
MIR140	0	0	4.018438	0.443867
MIR141	47.45476	20.76774	0	22.19335
MIR142	13.32063	4.275712	28.12907	10.65281
MIR143	0	0	0	0
MIR143HG	0	0.610816	0	0.443867
MIR144	0	0	4.018438	0
MIR145	0	0	0	0
MIR1468	0	0	0	0
MIR1469	0	0	0	0.443867
MIR146A	1.665079	0	0	0
MIR146B	0	0	0	0
MIR1470	0	0	0	0
MIR1471	0	0	0	0
MIR147A	0	0	0	0
MIR147B	0	0	0	0
MIR148A	0	0	0	0
MIR148B	0	0	0	0.887734
MIR149	0	0	0	0.443867
MIR150	0	0	0	0
MIR152	0	0	4.018438	0
MIR153-1	0	0	0	0
MIR153-2	0	0	0	0

MIR1537	0	0	0	0
MIR1538	3.330158	0.610816	0	0.443867
MIR1539	0	0	0	0
MIR154	0	0	0	0
MIR155	0	0	0	0
MIR155HG	2.497619	1.221632	0	0.443867
MIR15A	0	0.610816	0	0
MIR15B	0	0	0	0
MIR16-1	0	0	0	0
MIR16-2	0	0	0	0
MIR17	0	0	0	0
MIR17HG	45.78968	20.76774	8.036876	13.75988
MIR181A1	0	0	0	0.443867
MIR181A2	0	0	0	0
MIR181A2	4.995237	3.05408	4.018438	4.43867
MIR181B1	0	0	4.018438	0
MIR181B2	0	0	0	0
MIR181C	0	0	0	0.443867
MIR181D	0	0	0	0
MIR182	0	0	0	0
MIR1827	0	0	0	0
MIR183	0	0	0	0
MIR184	0	0	0	0
MIR185	0	0	4.018438	0
MIR186	0.83254	0.610816	0	0.443867
MIR187	0	0	0	0
MIR188	0	0	0	0
MIR18A	0	0	0	0
MIR18B	0	0	0	0
MIR1908	0	0	0	0
MIR1909	0.83254	1.221632	0	0.887734
MIR190A	0	0	0	0
MIR190B	0	0	0	0
MIR191	0.83254	0	0	0
MIR1910	0	0	0	0
MIR1911	0	0	0	0
MIR1912	0	0	0	0
MIR1913	0	0	0	0
MIR1914	2.497619	4.886528	0	8.87734
MIR1915	0	0	0	0
MIR192	39.12936	3.05408	0	7.101872
MIR193A	3.330158	1.221632	16.07375	0.443867
MIR193B	0	0	4.018438	0
MIR194-1	0	0	0	0
MIR194-2	5.827777	3.05408	0	1.331601
MIR195	0	0	0	0
MIR196A1	0	0	8.036876	0

MIR196A2	0	0	4.018438	0
MIR196B	0.83254	0	0	0.443867
MIR197	0	0	0	0
MIR1972-1	0	0	0	0
MIR1972-2	0	0	0	0
MIR1973	0	0	0	0
MIR1976	0	0	0	0
MIR198	0	0	0	0
MIR199A1	0	0.610816	4.018438	0.443867
MIR199A2	0	0	0	0
MIR199B	0	0	12.05531	0
MIR19A	0	0	0	0
MIR19B1	0	0	0	0
MIR19B2	0	0	0	0
MIR200A	5.827777	6.10816	0	6.214138
MIR200B	4.995237	3.664896	0	5.770271
MIR200C	2.497619	0	8.036876	0
MIR202	0	0	0	0
MIR203	0	0	0	0
MIR204	0	0	0	0
MIR205	0	0	0	0
MIR2052	0	0	0	0
MIR2053	0	0	0	0
MIR2054	0	0	0	0
MIR205HG	2.497619	0.610816	12.05531	1.331601
MIR206	0	0	0	0
MIR208A	0	0	0	0
MIR208B	0	0	4.018438	0
MIR20A	0	0	0	0
MIR20B	0	0	0	0
MIR21	1.665079	3.05408	16.07375	4.882537
MIR210	21.64603	3.05408	4.018438	3.550936
MIR210HG	1413.652	127.0497	4.018438	102.0894
MIR211	0	0	0	0
MIR2110	0	0	0	0
MIR2113	0	0	0	0
MIR2114	0	0	0	0
MIR2116	0	0	0	0
MIR2117	0	0	0	0
MIR212	0	0	8.036876	0
MIR214	0	0	0	0
MIR215	0	0	0	0
MIR216A	0	0	0	0
MIR216B	0	0	0	0
MIR217	0	0	0	0
MIR218-1	0.83254	0	0	0
MIR218-2	0	0	12.05531	0

MIR219-1	0	0	0	0
MIR219-2	0	0	0	0
MIR22	0	0	0	0
MIR221	4.995237	0.610816	0	1.331601
MIR222	0	0.610816	0	0
MIR223	0	0	0	3.994803
MIR2276	0	0	0	0
MIR2277	0	0	0	0
MIR2278	0	0	0	0
MIR22HG	162.3452	64.74649	0	130.053
MIR2355	0	0	0	0
MIR2392	0	0	0	0
MIR23A	0	0	4.018438	0.443867
MIR23B	0	0	4.018438	2.219335
MIR23C	0	0	0	0
MIR24-1	0	0	0	0
MIR24-2	0	0	0	0
MIR2467	0	0	0	0
MIR25	51.61745	47.03283	4.018438	38.17256
MIR2681	0	0	0	0
MIR2682	0	0	0	0
MIR26A1	0	0	0	0
MIR26A2	0	0	0	0
MIR26B	0.83254	1.832448	0	0
MIR27A	0	0.610816	12.05531	0
MIR27B	2.497619	0.610816	12.05531	1.775468
MIR2861	0	1.221632	8.036876	1.331601
MIR2909	0	0	0	0
MIR296	0	0.610816	0	1.775468
MIR2964A	0	0	0	0
MIR298	0	0	0	0.887734
MIR299	0	0	8.036876	0
MIR29A	0	0.610816	0	0.443867
MIR29B1	0	0	0	0
MIR29B2	3.330158	6.10816	28.12907	6.214138
MIR29C	65.77063	14.65958	8.036876	17.75468
MIR300	0	0	0	0
MIR301A	0	0	0	0
MIR301B	0	0	8.036876	0
MIR302A	0	0	0	0
MIR302B	0	0	0	0
MIR302C	0	0	0	0
MIR302D	0	0	0	0
MIR302F	0	0	0	0
MIR3064	14.15317	67.80057	52.23969	72.79419
MIR3065	0	0	0	0
MIR3074	0.83254	0.610816	0	0.443867

MIR30A	0	0.610816	0	0
MIR30B	0	0	0	0
MIR30C1	0	0	0	0
MIR30C2	0	0	0	0
MIR30D	0	0	0	0
MIR30E	0	0	0	0
MIR31	0	0	0	0
MIR3115	0	0	0	0
MIR3117	0	0	0	0
MIR3119-1	0	0	0	0
MIR3119-2	0	0	0	0
MIR3120	0	0	0	0
MIR3121	0	0	0	0
MIR3122	0	0	0	0
MIR3123	0	0	0	0
MIR3124	0	0	0	0
MIR3125	0	0	0	0
MIR3126	0	0	0	0
MIR3127	0	0	0	0
MIR3128	0	0	0	0
MIR3129	0	0	0	0
MIR3130-1	0	0	0	0
MIR3130-2	0	0	0	0
MIR3131	0	0	0	0
MIR3132	0.83254	0	0	0
MIR3134	0	0	0	0
MIR3136	0	0	0	0
MIR3138	0	0	0	0
MIR3140	0	0	0	0
MIR3141	0	0	0	0
MIR3142	0	0	0	0
MIR3143	0	0	0	0
MIR3145	0	0	0	0
MIR3146	0	0	0	0
MIR3147	0	0	0	0
MIR3148	0	0	0	0
MIR3150A	0	0	0	0
MIR3150B	0	0	0	0
MIR3151	0	0	0	0
MIR3152	0	0	0	0
MIR3153	0	0	0	0.443867
MIR3154	0	0	0	0
MIR3155A	0	0	0	0
MIR3155B	0	0	0	0
MIR3156-1	0	0	0	0
MIR3156-2	0	0	0	0
MIR3156-3	0	0	0	0

MIR3157	0	0	0	0
MIR3158-1	0	0	0	0
MIR3158-2	0	0	0	0
MIR3160-1	0	0	0	0
MIR3160-2	0	0	0	0
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MIR3169	0	0	0	0
MIR3170	0	0	0	0
MIR3173	0	0	0	0
MIR3175	0	0.610816	0	0
MIR3176	0	0.610816	0	2.219335
MIR3177	0	0	0	0
MIR3178	0	0	0	0
MIR3179-1	0	0	0	0
MIR3179-2	0	0	0	0
MIR3179-3	0	0	0	0
MIR3180-1	0	0	0	0
MIR3180-2	0	0	0	0
MIR3180-3	0	0	0	0
MIR3180-4	0	0	0	0
MIR3180-5	0	0	0	0
MIR3182	0	0	0	0
MIR3183	0	0	0	0
MIR3184	0	0	0	0
MIR3185	0	0	0	0
MIR3186	0	0	0	0.887734
MIR3187	0	0	0	0
MIR3188	0	0	0	0
MIR3189	0	0	0	0
MIR3190	0	0	0	0
MIR3191	0	0	0	0
MIR3192	0	0	0	0
MIR3193	0	0.610816	0	0
MIR3194	0	0	0	0
MIR3196	0	0	0	0
MIR3197	0.83254	0	0	0
MIR3198-1	0	0	0	0
MIR3198-2	0	0	0	0
MIR3199-1	0	0	0	0
MIR3199-2	0	0	0	0
MIR31HG	30.80396	0	0	0
MIR32	0	0	12.05531	0
MIR3200	0	0	0	0
MIR3201	0	0	0	0
MIR3202-1	0	0	0	0

MIR3202-2	0	0	0	0
MIR320A	0	0	0	0.443867
MIR320B1	0	0	0	0
MIR320B2	0	0	0	0
MIR320C1	4.162698	0	0	0
MIR320C2	0	0	0	0
MIR320D1	0	0	0	0
MIR320D2	0	0	0	0
MIR320E	0.83254	0	0	0
MIR323A	0	0.610816	0	0
MIR323B	0	0	0	0
MIR324	0	6.10816	0	7.989606
MIR326	0	0	0	0.443867
MIR328	1.665079	0.610816	0	0.443867
MIR329-1	0	0	0	0
MIR329-2	0	0	0	0
MIR330	0	0	0	0
MIR331	0	0	0	1.331601
MIR335	0	0	0	0
MIR337	0	0	0	0
MIR338	0	0	0	0
MIR339	4.162698	0.610816	0	0.887734
MIR33A	0	0	0	0
MIR33B	0.83254	0.610816	0	0
MIR340	0	0	0	0
MIR345	0	0	0	0
MIR346	2.497619	0	0	0
MIR34A	0.83254	0	0	0.443867
MIR34B	0	0	8.036876	0
MIR34C	0	0	0	0
MIR3529	0	0	0	0
MIR3545	0	0	0	0
MIR3591	0	0	0	0
MIR3605	0	0.610816	0	0.443867
MIR3606	0	0	0	0
MIR3607	2.497619	0.610816	0	0.443867
MIR3609	2.497619	12.21632	0	0.443867
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MIR3612	0	0	0	0
MIR3613	0	0	0	0
MIR3614	0	0	0	0
MIR3615	0	0.610816	0	0
MIR3616	0.83254	0	0	0
MIR3618	0	0	0	0
MIR3619	0	0	0	0
MIR362	0	0	12.05531	0
MIR3620	0	0	0	0

MIR3621	0	0	0	0
MIR3622A	0	0	0	0
MIR3622B	0	0	0	0
MIR363	0	0	0	0
MIR3646	0	0	0	0
MIR3648	62.44047	291.97	28.12907	10.20894
MIR3649	0	0	0	0
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MIR3658	0	0	0	0
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MIR365A	0	0	0	0
MIR365B	0	0	0	0
MIR3660	0	0	0	0
MIR3661	0	0	0	0
MIR3662	0	0	0	0
MIR3663	0	0	0	0
MIR3664	0	0	0	0.443867
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MIR3666	0	0	0	0
MIR3668	0	0	0	0
MIR367	0	0	0	0
MIR3671	0	0	0	0
MIR3675	0	0	0	0
MIR3676	0	0	0	0.443867
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MIR3678	0	0	0	0
MIR3679	1.665079	0	0	0
MIR3680-1	0	0	0	0
MIR3682	4.162698	0	0	0
MIR3684	0	0	0	0
MIR3685	0	0	0	0.443867
MIR3687	74.92856	218.6721	4.018438	7.101872
MIR3688-1	0	0	0	0
MIR3688-2	0	0	0	0
MIR3689A	0	0	0	0
MIR3689B	0	0	0	0
MIR3689C	0	0	0	0
MIR3689D	0	0	0	0
MIR3689D	0	0	0	0
MIR3689E	0	0	0	0
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MIR369	0	0.610816	0	0
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MIR3692	0	0	0	0
MIR3714	0	0	0	0
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MIR371B	0	0	0	0
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MIR373	0	0	0	0
MIR374A	0	0	0	0
MIR374B	0	0	0	0
MIR374C	0	0	0	0
MIR375	0	0	4.018438	0
MIR376A1	0	0	0	0
MIR376A2	0	0	0	0
MIR376B	0	0	0	0
MIR376C	0	0	4.018438	0
MIR377	0	0	0	0
MIR378C	0	0	0	0
MIR378D1	0	0	0	0
MIR378D2	0	1.221632	0	0
MIR378E	0	0	0	0
MIR378F	0	0	0	0
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MIR3909	0	0	0	0
MIR3910-1	0	0	0	0
MIR3910-2	0	0	0	0
MIR3911	0	0	0	0.443867
MIR3912	0	0	0	0
MIR3913-1	0	0	0	0
MIR3913-2	0	0	0	0
MIR3914-1	0	0	0	0
MIR3914-2	0	0	0	0
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MIR3926-1	0	0	0	0
MIR3926-2	0	0	0	0
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MIR3944	0	0	0	0.443867
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MIR3960	4.162698	1.221632	0	1.331601
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MIR3974	0	0	0	0
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MIR3977	0	0	0	0
MIR3978	0	0	0	0
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MIR410	0	0	8.036876	0
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MIR412	0	0	8.036876	0
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MIR4283-2	0	0	0	0
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MIR4285	0	0.610816	0	0
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MIR429	39.12936	17.71366	0	14.64761
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MIR4435-2	0	0	0	0
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MIR4444-1	0	0	0	0
MIR4446	0	0	0	0
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MIR4472-2	0	0	0	0
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MIR4482-1	0	0	0	0
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MIR4486	0	0	0	0
MIR4488	0	0	0	0
MIR4489	0	0	0	0.887734
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MIR4491	0	0	0	0
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MIR4497	0	0	0	0
MIR4498	0	0	0	0
MIR4499	0	0	0	0
MIR449A	0	0	0	0
MIR449B	0	0	0	0
MIR449C	0	0	0	0
MIR4500	0	0	0	0
MIR4500H	0	0	0	0
MIR4503	0	0	0	0
MIR4505	0	0	0	0.443867
MIR4508	0	0	0	0
MIR4509-1	0	0	0	0
MIR4509-2	0	0	0	0

MIR4509-3	0	0	0	0
MIR450A1	0	0	4.018438	0
MIR450A2	0	0	0	0
MIR450B	0	0	0	0
MIR4510	0	0	0	0
MIR4511	0	0	0	0
MIR4513	0	0	0	0
MIR4514	0	0	0	0
MIR4515	0	0	0	0
MIR4516	0	0	0	0
MIR4517	1.665079	1.832448	0	4.43867
MIR4518	0	0	0	0
MIR4519	0	0	0	1.331601
MIR451A	0	0	0	0
MIR451B	0	0	0	0
MIR452	0	0	0	0.887734
MIR4520A	0	0	0	0
MIR4520B	0	0	0	0
MIR4521	0	0	0	0
MIR4522	0	0	0	0
MIR4523	0.83254	1.221632	48.22126	2.219335
MIR4524A	0	0	0	0.443867
MIR4526	0	0	0	0
MIR4529	0	0	0	0
MIR4530	0	0	0	0
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MIR4532	0	0	0	0
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MIR4536-1	0	0	0	0
MIR454	0	0	0	0
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MIR455	0	0	0	0
MIR4632	0	0	0	0
MIR4633	0	0	0	0
MIR4634	0	0	0	0
MIR4635	0	1.832448	0	1.331601
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MIR4656	0	0	0	0.443867
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MIR4659A	0	0	0	0
MIR4659B	0	0	0	0
MIR4660	0	0	0	0
MIR4661	0	0	0	0
MIR4663	0	0	0	0
MIR4664	0	0	0	1.331601
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MIR4667	0	0	0	0
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MIR4678	0	0	0	0
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MIR4679-2	0	0	0	0
MIR4680	0	0	0	0
MIR4681	0	0	0	0
MIR4682	0	0	0	0.443867
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MIR4688	0.83254	0	0	0
MIR4689	0	0	0	0

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MIR4691	0.83254	2.443264	0	4.882537
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MIR4719	0	0	0	0
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MIR4721	0	0	0	0
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MIR4732	0	0	0	0
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MIR4737	0	0.610816	0	0
MIR4738	0	0	0	0



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MIR4750	2.497619	0.610816	0	1.775468
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MIR4753	0	0	0	0
MIR4754	0	0.610816	0	0.887734
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MIR4773-1	0	0	0	0
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MIR4774	0	0	0	0
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MIR4776-1	0	0	0	0
MIR4776-2	0	0	0	0
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MIR4779	0	0	0	0
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MIR4787	0	0	12.05531	0
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MIR4801	0	0	0	0
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MIR4803	0	0	0	0
MIR4804	0	0	0	0
MIR483	0	0	0	0
MIR484	0	0	0	0
MIR485	2.497619	0	0	0
MIR486	0	0	0	0
MIR487A	0	0	0	0
MIR487B	0	0	0	0
MIR488	0	0	0	0
MIR489	0	0	0	0
MIR490	0	0	4.018438	0
MIR491	0	0	0	0
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MIR493	0	0	0	0
MIR494	0	0	0	0
MIR495	0	0	4.018438	0
MIR496	0	0	0	0
MIR497	0	0	8.036876	0
MIR497HG	3.330158	3.664896	12.05531	2.663202
MIR498	0	0	0	0
MIR499A	0.83254	0	0	0.887734
MIR499B	0	0	0	0
MIR500A	0	0	0	0
MIR500B	0	0	0	0
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MIR502	0	0	0	0
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MIR504	0	0	0	0
MIR5047	42.45952	177.1366	225.0325	236.1373

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MIR507	0	0	0	0
MIR508	0	0	0	0
MIR509-1	0	0	0	0
MIR509-2	0	0	0	0
MIR509-3	0	0	0	0
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MIR511-1	0	0	0	0
MIR511-2	0	0	0	0
MIR512-1	0	0	0	0
MIR512-2	0	0	0	0
MIR514A1	0	0	0	0
MIR514A2	0	0	0	0
MIR514A3	0	0	0	0
MIR514B	0	0	0	0
MIR515-1	0	0	0	0
MIR515-2	0	0	0	0
MIR516A1	0	0	0	0
MIR516A2	0	0	0	0
MIR516B1	0	0	0	0
MIR516B2	1.665079	0	0	0
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MIR517B	0	0	0	0
MIR517C	0	0	0	0
MIR518A1	0	0	0	0
MIR518A2	0	0	0	0
MIR518B	0	0	0	0
MIR518C	0	0	0	0
MIR518D	0	0	0	0
MIR518E	0	0	0	0
MIR518F	0	0	0	0
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MIR519A2	0	0	0	0
MIR519B	0	0	0	0
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MIR519D	0	0	0	0
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MIR520D	0	0	0	0
MIR520E	0	0	0	0
MIR520F	0	0	0	0
MIR520G	0	0	0	0
MIR520H	0	0	0	0

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MIR524	0	0	0	0
MIR525	0	0	0	0
MIR526A1	0	0	0	0
MIR526A2	0	0	0	0
MIR526B	0	0	0	0
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MIR548A1	0	0	0	0
MIR548A2	0	0	0	0
MIR548A3	0	0	0	0
MIR548AA	0	0	0	0
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MIR548AC	0	0	0	0
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MIR548C	0	0	0	0
MIR548D1	0	0	0	0
MIR548D2	0	0	0	0
MIR548F1	0	0	0	0.443867
MIR548F2	0	0	0	0
MIR548F3	0	0	0	0
MIR548F4	0	0	0	0
MIR548F5	0	0	0	0
MIR548G	0	0	0	0
MIR548H2	0	1.832448	0	0.443867
MIR548H3	0	0	0	0
MIR548H4	0	0	0	0
MIR548I1	0	0	0	0
MIR548I2	0	0	0	0
MIR548I3	0	0	0	0
MIR548I4	0	0	0	0
MIR548J	0	0	0	0
MIR548K	0	0	0	0

MIR548M	0	0	0	0
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MIR548O2	0	0	0	0
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MIR548T	0	0	0	0
MIR548W	0	0	0	0
MIR548X	0	0	0	0
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MIR548Z	0	0	0	0
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MIR550A1	0	0	0	0
MIR550A2	0	0	0	0
MIR550A3	0	0	0	0
MIR550B1	0	0	0	0
MIR550B2	0	0	0	0
MIR551A	0	0.610816	0	0.443867
MIR551B	0	0	0	0
MIR553	0	0	0	0
MIR554	0	1.221632	0	0
MIR555	0	0	0	0
MIR556	0	0	0	0
MIR557	0	0	0	0
MIR558	0	0	8.036876	0
MIR559	0	0.610816	0	1.331601
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MIR567	0	0	0	0
MIR568	0	0.610816	8.036876	0.887734
MIR569	0	0	0	0
MIR570	8.325396	2.443264	0	8.433473
MIR572	0	0	0	0.887734
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MIR574	0	0	0	0.443867
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MIR577	0	0.610816	0	0
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MIR583	0	0	0	0
MIR585	0	0	0	0
MIR586	0	0	0	0
MIR589	0	0	0	1.331601
MIR590	0.83254	0.610816	0	0
MIR591	0	0	0	0
MIR592	0	0	0	0
MIR593	0	0.610816	0	0.443867

MIR595	0	0	0	0
MIR596	0	0	0	0
MIR597	0	0	0	0
MIR598	0	0	0	0
MIR599	0	1.221632	0	0
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MIR600HG	87.41666	10.99469	56.25813	25.74429
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MIR603	0	0	0	0
MIR604	0	0	0	0.443867
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MIR611	0	0.610816	0	0.443867
MIR612	5.827777	1.221632	0	5.326404
MIR613	0	0	0	0
MIR614	4.995237	12.82714	0	21.30562
MIR615	0	0	4.018438	0
MIR617	0	0	0	0
MIR618	0	0	0	0
MIR620	0	0	0	0
MIR621	0	0	0	0
MIR622	0.83254	0	0	0
MIR623	0	0	0	0
MIR624	0	0	0	0
MIR626	0	0	0	0
MIR627	0	0	0	0
MIR628	0	0	0	0.887734
MIR629	0	0	0	0
MIR630	0	0	0	0
MIR631	0.83254	4.275712	0	5.326404
MIR632	0	0	0	0
MIR634	0	0	0	0
MIR635	1.665079	1.221632	0	0.443867
MIR636	0	0	0	0.887734
MIR637	2.497619	1.832448	0	1.331601
MIR638	0	0	0	0
MIR639	0	0	0	0.443867
MIR641	0	0	0	1.331601
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MIR642B	0	0	0	0
MIR643	0	0	0	0
MIR644A	0	0	0	0
MIR645	0	0	0	0
MIR647	0	1.832448	0	3.550936

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MIR661	0	0	0	0
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MIR663A	0	0	0	0
MIR663B	0	0	0	0
MIR664	0	0	0	0
MIR665	0	0	0	0
MIR668	0	0	0	0
MIR670	0	0	0	0
MIR671	0	0	0	0
MIR675	0	0	0	0
MIR676	0	0	0	0
MIR7-1	1.665079	1.221632	0	6.214138
MIR7-2	0	0	0	0
MIR7-3	0	0	0	0
MIR7-3HG	0	0	0	0
MIR708	0	0	0	0
MIR711	0	0	0	0
MIR718	0	0	0	0
MIR744	0	0	8.036876	0
MIR758	0	0	0	0
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MIR760	0	0	0	0
MIR761	0	0	0	0
MIR762	0	0	0	0
MIR764	0	0	0	0
MIR765	0	0.610816	0	1.331601
MIR766	0	0	0	0
MIR767	0	0	0	0
MIR769	0	0	0	0
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MIR889	0	0	0	0
MIR890	0	0	0	0
MIR891A	0	0	0	0
MIR891B	0	0	0	0
MIR892A	0	0	0	0
MIR892B	0	0	0	0
MIR9-1	0	0	0	0
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MIR920	0	0	0	0
MIR921	0	0	0	0
MIR922	0	0	0	0
MIR92A1	0	0	0	0
MIR92A2	0	0	0	0
MIR92B	0	0	0	0
MIR93	18.31587	13.43795	0	19.08628
MIR933	0	1.832448	0	0
MIR934	0	0	0	0
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MIR937	0	0	0	0
MIR938	0	0	0	0
MIR939	4.995237	0.610816	0	1.331601
MIR940	8.325396	1.221632	0	1.331601
MIR941-1	0	0	0	0.887734
MIR941-2	0	0	0	0
MIR941-3	0	0	0	0
MIR941-4	0	0	0	0
MIR942	0	0	0	0
MIR943	2.497619	1.832448	0	1.331601
MIR944	0	0	0	0
MIR96	0	0	0	0
MIR98	0	0	0	0
MIR99A	0.83254	0	4.018438	0.443867
MIR99B	0	0	16.07375	0
MIRLET7A:	0	0	0	0.443867
MIRLET7A:	0	0	0	0
MIRLET7A:	0	0	0	0
MIRLET7B	0	0	0	0
MIRLET7B:	99.90475	99.563	0	59.92205
MIRLET7C	0	0	4.018438	0
MIRLET7D	2.497619	3.664896	8.036876	2.219335
MIRLET7E	0	0	0	0
MIRLET7F1	0	0	16.07375	0
MIRLET7F2	0	0	0	0



MIRLET7G	0	0	0	0
MIRLET7I	4.995237	0.610816	0	0.443867
MIS12	29.13889	75.13036	32.1475	92.32434
MIS18A	91.57935	82.46015	36.16594	41.7235
MIS18BP1	24.14365	45.20038	0	38.61643
MITD1	139.8666	109.9469	44.20282	102.5333
MITF	64.10555	76.96281	253.1616	73.23806
MIXL1	0	0	0	0
MKI67	1514.389	836.8179	24.11063	742.5895
MKI67IP	119.8857	191.7962	4.018438	84.7786
MKKS	526.165	572.3345	225.0325	336.8951
MKL1	369.6476	245.548	92.42408	199.7402
MKL2	29.13889	102.6171	337.5488	111.8545
MKLN1	205.6373	249.8237	839.8536	243.683
MKNK1	190.6516	153.3148	156.7191	221.4896
MKNK2	578.615	225.3911	413.8991	403.4751
MKRN1	590.2706	529.5774	1265.808	486.9221
MKRN2	94.07697	62.91404	124.5716	60.36591
MKRN3	0	2.443264	8.036876	0.443867
MKRN7P	2.497619	3.664896	12.05531	13.75988
MKRN9P	0	0.610816	4.018438	0.443867
MKS1	64.10555	174.6934	8.036876	138.0426
MKX	3.330158	0	32.1475	3.107069
MLANA	1.665079	0.610816	4.018438	2.663202
MLC1	0	0	0	0.443867
MLEC	1865.721	1155.664	687.1529	1301.862
MLF1	483.7055	68.41139	64.29501	49.26924
MLF1IP	292.2214	207.6774	0	175.3275
MLF2	2069.693	1740.215	1944.924	1608.574
MLH1	178.1635	163.0879	128.59	150.9148
MLH3	71.5984	193.0178	16.07375	132.7162
MLIP	1.665079	1.221632	148.6822	4.43867
MLK7-AS1	9.157935	0	0	2.663202
MLKL	278.0682	122.1632	20.09219	110.079
MLL	276.4031	247.9913	502.3048	415.0157
MLL2	342.1738	236.3858	928.2592	394.5978
MLL3	66.60317	219.8937	381.7516	216.1632
MLL4	496.1936	409.2467	646.9685	436.7651
MLL5	111.5603	233.3317	458.1019	363.971
MLLT1	549.4761	264.4833	108.4978	229.4792
MLLT10	77.42618	87.9575	184.8482	109.6352
MLLT10P1	0	0.610816	0	0
MLLT11	2.497619	28.09753	4.018438	35.95323
MLLT3	103.2349	318.8459	164.756	147.8077
MLLT4	443.7436	445.2848	144.6638	571.2569
MLLT4-AS1	8.325396	28.09753	0	16.42308
MLLT6	1413.652	852.0883	699.2082	1154.942

MLN	0	0	0	0
MLNR	0	0	0	0
MLPH	1287.106	4046.656	68.31345	2316.986
MLST8	517.0071	326.7865	24.11063	228.5915
MLX	218.1254	550.3452	204.9403	365.7464
MLXIP	124.8809	81.84934	20.09219	178.8784
MLXIPL	305.542	42.1463	28.12907	29.29522
MLYCD	112.3928	83.07097	56.25813	64.80458
MMAA	96.57459	70.85465	128.59	56.81498
MMAB	1027.354	318.2351	20.09219	138.0426
MMACHC	40.79444	48.86528	20.09219	38.61643
MMADHC	216.4603	521.6368	277.2722	380.8379
MMD	14.15317	82.46015	88.40564	87.88567
MMD2	0	0	0	0
MME	17.48333	10.99469	12.05531	3.550936
MMEL1	27.47381	35.42733	24.11063	41.27963
MMGT1	95.74205	253.4886	12.05531	102.5333
MMP1	156.5174	269.3698	128.59	63.02912
MMP10	4.995237	32.37325	655.0054	35.06549
MMP11	1.665079	21.37856	257.18	22.63722
MMP12	116.5555	1.832448	582.6735	4.43867
MMP13	10.82301	12.82714	16.07375	11.98441
MMP14	1787.462	1267.443	5356.578	1347.136
MMP15	1877.377	505.1448	56.25813	1167.37
MMP16	0.83254	0	16.07375	3.107069
MMP17	0	9.773055	8.036876	22.19335
MMP19	0.83254	6.718975	60.27657	11.09668
MMP2	70.76586	200.9584	4709.609	755.4617
MMP20	0	1.221632	4.018438	0
MMP21	0	0	0	0
MMP23A	0	0	0	0
MMP23B	0	0	0	0.443867
MMP24	427.9253	371.3761	1093.015	333.788
MMP25	17.48333	7.329791	4.018438	21.30562
MMP26	0	0	0	0
MMP27	0	0.610816	32.1475	0.443867
MMP28	661.0364	180.1907	24.11063	27.51976
MMP3	21.64603	67.80057	2081.551	75.90126
MMP7	720.9793	9015.643	80.36876	6725.029
MMP8	0	0.610816	0	0.443867
MMP9	4.162698	10.99469	152.7006	55.03951
MMRN1	0	0	0	0
MMRN2	5.827777	6.718975	44.20282	15.53535
MMS19	478.7103	400.0844	281.2907	385.2766
MMS22L	12.48809	27.48672	48.22126	19.97402
MN1	0	22.60019	64.29501	14.64761
MNAT1	64.93809	116.6658	136.6269	71.46259

MND1	44.95714	31.15161	24.11063	23.96882
MNDA	5.827777	1.221632	92.42408	5.326404
MNF1	329.6857	587.6049	2559.745	443.4232
MNS1	29.97142	62.91404	0	43.49897
MNT	144.0293	97.11974	369.6963	111.4106
MNX1	164.8428	76.35199	28.12907	83.447
MOAP1	119.8857	99.563	44.20282	104.7526
MOB1A	41.62698	109.9469	56.25813	89.66114
MOB1B	25.80873	41.53548	44.20282	47.49377
MOB2	615.2467	212.564	450.0651	153.1341
MOB3A	106.5651	128.8822	8.036876	125.1705
MOB3B	122.3833	225.3911	8.036876	200.6279
MOB3C	189.819	106.8928	112.5163	144.2568
MOB4	0	8.551423	4.018438	7.545739
MOBP	0	0.610816	4.018438	1.331601
MOCOS	30.80396	58.63833	128.59	43.0551
MOCS1	4.162698	21.37856	116.5347	40.83577
MOCS2	137.369	158.8121	474.1757	155.3535
MOCS3	39.9619	48.25446	24.11063	54.15178
MOG	0	0	0	0
MOGAT1	0.83254	29.92998	0	89.21727
MOGAT2	3.330158	0	0	1.775468
MOGAT3	4.995237	12.21632	4.018438	0.887734
MOGS	1059.823	444.674	425.9544	502.0136
MOK	787.5824	507.5881	4.018438	415.9034
MON1A	283.896	57.4167	277.2722	59.92205
MON1B	208.9674	166.7528	8.036876	182.4293
MON2	97.40713	130.1038	289.3275	133.1601
MORC1	0	0	0	0
MORC2	153.1873	370.1545	60.27657	322.2475
MORC2-AS	46.62222	53.14099	0	71.01872
MORC3	14.15317	30.5408	108.4978	54.59564
MORC4	133.2063	234.5533	52.23969	142.9252
MORF4L1	111.5603	254.7103	775.5585	213.5
MORF4L2	566.9595	1258.892	2382.934	1148.728
MORN1	58.27777	20.76774	4.018438	19.08628
MORN2	179.8285	128.8822	44.20282	73.23806
MORN3	24.97619	3.05408	8.036876	2.663202
MORN4	31.6365	21.37856	12.05531	32.40229
MORN5	52.44999	0	0	0.887734
MOS	0	0	0	0.887734
MOSPD1	8.325396	47.64364	100.461	46.60604
MOSPD2	16.65079	15.88121	52.23969	19.53015
MOSPD3	219.7904	447.7281	594.7288	397.261
MOV10	685.1801	396.4196	265.2169	540.63
MOV10L1	0	0.610816	12.05531	0
MOXD1	4.162698	13.43795	4.018438	40.83577

MOXD2P	0.83254	0	0	0
MPDU1	614.4142	524.0801	229.051	430.551
MPDZ	0.83254	23.82182	112.5163	52.37631
MPEG1	10.82301	9.773055	184.8482	47.49377
MPG	484.538	590.659	136.6269	353.3181
MPHOSPH	158.1825	200.3476	156.7191	161.1237
MPHOSPH	78.25872	131.9362	28.12907	73.68193
MPHOSPH	204.8047	217.4505	124.5716	136.711
MPHOSPH	9.990475	26.26509	0	21.74948
MPI	169.0055	312.127	172.7928	306.2682
MPL	1.665079	3.664896	40.18438	4.882537
MPND	238.1063	175.3042	1088.997	124.2828
MPO	4.995237	0.610816	72.33188	2.219335
MPP1	41.62698	38.48141	1185.439	74.12579
MPP2	0.83254	3.664896	48.22126	2.219335
MPP3	65.77063	65.35731	16.07375	56.37111
MPP4	0.83254	0.610816	0	0.887734
MPP5	28.30635	109.9469	72.33188	106.972
MPP6	33.30158	33.59488	855.9273	32.40229
MPP7	23.31111	7.329791	16.07375	32.40229
MPPE1	138.2016	271.8131	32.1475	244.5707
MPPED1	0	0.610816	12.05531	0
MPPED2	0	1.832448	56.25813	0.443867
MPRIP	630.2325	513.0854	506.3232	644.4949
MPST	3042.932	1994.314	361.6594	810.945
MPV17	129.8762	177.1366	108.4978	246.7901
MPV17L	6.660317	4.275712	0	1.775468
MPV17L2	139.8666	97.73055	84.3872	78.1206
MPZ	13.32063	5.497344	321.475	16.86695
MPZL1	744.2904	1280.881	32.1475	1131.417
MPZL2	348.8341	320.6784	8.036876	287.6258
MPZL3	9.157935	13.43795	4.018438	19.53015
MR1	74.09602	136.212	4.018438	213.5
MRAP	0	0	8.036876	0
MRAP2	353.8293	67.18975	0	13.75988
MRAS	4.995237	4.886528	68.31345	5.326404
MRC1	0	0	0	0
MRC2	167.3405	137.4336	550.526	191.7506
MRE11A	54.94761	120.3307	20.09219	116.737
MREG	44.95714	133.1579	8.036876	89.21727
MRFAP1	1679.232	1861.156	2965.607	1609.018
MRFAP1L1	352.9968	422.0738	12.05531	382.1695
MRGPRD	0	0	0	0
MRGPRE	0	0	0	1.331601
MRGPRF	1.665079	0	56.25813	3.994803
MRGPRG	0	0	0	0
MRGPRX1	0	0	8.036876	0

MRGPRX2	0	0.610816	20.09219	0.443867
MRGPRX3	0	0	0	0
MRGPRX4	0	0	0	0.443867
MRI1	150.6897	134.9903	204.9403	184.2048
MRM1	89.91427	114.8334	12.05531	52.82018
MRO	0	0	0	0
MRP63	489.5333	566.2264	249.1432	311.1508
MRPL1	132.3738	177.1366	72.33188	83.447
MRPL10	332.1833	335.338	76.35032	240.5759
MRPL11	669.3618	670.6759	273.2538	289.8452
MRPL12	1894.028	1039.609	1233.66	560.604
MRPL13	462.0595	396.4196	558.5629	219.2703
MRPL14	1219.67	672.5084	526.4154	379.9502
MRPL15	568.6245	415.9657	429.9729	276.973
MRPL16	406.2793	534.464	204.9403	292.0645
MRPL17	870.8364	437.955	787.6139	298.2786
MRPL18	393.7912	338.392	212.9772	253.4481
MRPL19	80.75634	175.915	120.5531	92.32434
MRPL2	739.2951	269.3698	1105.07	226.3722
MRPL20	847.5253	933.9376	329.5119	454.5198
MRPL21	531.1603	328.619	233.0694	173.552
MRPL22	190.6516	158.2013	136.6269	119.8441
MRPL23	2644.978	445.2848	1257.771	323.5791
MRPL23-A	3.330158	0	0	2.219335
MRPL24	914.961	995.0192	964.4251	495.7995
MRPL27	491.1984	624.2539	920.2223	347.5479
MRPL28	1143.077	790.3958	916.2039	445.6425
MRPL3	429.5904	404.3602	136.6269	317.3649
MRPL30	167.3405	138.6552	56.25813	101.2017
MRPL32	211.4651	478.8797	80.36876	255.2235
MRPL33	227.2833	435.5118	136.6269	225.4844
MRPL34	380.4706	230.2776	377.7332	185.5364
MRPL35	263.915	179.5799	132.6085	123.8389
MRPL36	156.5174	171.6393	0	98.98235
MRPL37	656.0412	605.9294	144.6638	340.0021
MRPL38	1094.79	585.7725	582.6735	339.5583
MRPL39	111.5603	61.0816	140.6453	40.83577
MRPL4	992.3872	367.1004	466.1388	268.0957
MRPL40	275.5706	384.8141	393.8069	203.2911
MRPL41	844.1951	350.6084	172.7928	262.7693
MRPL42	134.0389	107.5036	172.7928	90.105
MRPL42P5	0	4.275712	0	3.107069
MRPL43	631.8975	334.7271	425.9544	249.0094
MRPL44	183.1587	249.8237	48.22126	173.9959
MRPL45	214.7952	277.9213	132.6085	147.3639
MRPL45P2	12.48809	14.65958	0	7.101872
MRPL46	135.704	239.4399	196.9035	182.8732

MRPL47	698.5007	224.7803	88.40564	130.4969
MRPL48	588.6055	271.8131	176.8113	122.0634
MRPL49	248.9293	515.5287	56.25813	442.9793
MRPL50	118.2206	125.8281	28.12907	115.4054
MRPL51	1181.374	1729.22	417.9176	937.4471
MRPL52	1356.207	795.8932	2258.362	426.5562
MRPL53	428.7579	439.1767	88.40564	313.3701
MRPL54	619.4094	151.4824	409.8807	139.3742
MRPL55	606.9214	479.4905	80.36876	420.3421
MRPL9	351.3317	370.7653	132.6085	261.8815
MRPS10	84.0865	133.7687	0	105.1965
MRPS11	189.819	285.2511	237.0878	287.6258
MRPS12	852.5205	833.7638	401.8438	344.4408
MRPS14	199.8095	299.2998	433.9913	166.4501
MRPS15	429.5904	518.5827	715.282	353.3181
MRPS16	558.6341	1060.376	293.346	585.9045
MRPS17	144.8619	221.7262	120.5531	103.8649
MRPS18A	395.4563	333.5055	221.0141	224.1528
MRPS18B	0	0	0	0
MRPS18C	92.41189	130.1038	104.4794	66.58005
MRPS2	665.1991	287.6943	4.018438	162.8992
MRPS21	773.4293	991.3543	731.3557	663.1373
MRPS22	301.3793	127.0497	104.4794	94.09981
MRPS23	149.8571	505.1448	188.8666	216.1632
MRPS24	15.81825	17.10285	0	8.433473
MRPS25	514.5095	151.4824	249.1432	107.8597
MRPS26	596.9309	419.0197	192.885	308.4876
MRPS27	218.9579	346.3326	24.11063	181.5416
MRPS28	194.8143	254.0994	36.16594	117.1809
MRPS30	89.91427	178.3583	442.0282	88.32954
MRPS31	110.7278	94.06566	96.44251	44.83057
MRPS33	358.8246	514.9178	96.44251	234.8057
MRPS34	1718.362	1117.793	478.1941	714.182
MRPS35	476.2126	673.1192	52.23969	409.6893
MRPS36	99.90475	126.4389	124.5716	57.70271
MRPS5	688.5102	489.2636	104.4794	283.1872
MRPS6	408.7769	160.0338	12.05531	85.22247
MRPS7	650.2134	878.3533	446.0466	410.1331
MRPS9	472.0499	204.6233	486.231	140.7058
MRRF	276.4031	189.3529	140.6453	114.9616
MRS2	54.11507	141.0985	12.05531	113.1861
MRS2P2	9.157935	0	0	0.443867
MRT04	765.1039	409.8575	494.2679	311.1508
MRVI1	0	0.610816	0	2.663202
MRVI1-AS1	5.827777	0.610816	0	0.887734
MS4A1	0	0	4.018438	0
MS4A10	0	0	0	0

MS4A12	0	0.610816	0	0
MS4A13	0	0	0	0
MS4A14	0	0.610816	8.036876	0
MS4A15	0.83254	0	0	0
MS4A2	0	0	0	1.775468
MS4A3	0	0	0	0
MS4A4A	1.665079	3.664896	16.07375	3.550936
MS4A5	0	0	0	0
MS4A6A	0	0.610816	0	0.443867
MS4A6E	0	0	0	0
MS4A7	0	0	4.018438	2.219335
MS4A8B	308.8722	46.42201	8.036876	10.65281
MSC	1.665079	2.443264	16.07375	3.550936
MSGN1	0	0	0	0.443867
MSH2	83.25396	108.1144	200.9219	83.89087
MSH3	42.45952	74.51955	36.16594	62.14138
MSH4	0	0	0	1.331601
MSH5	0	0	0	0
MSH5-SAP	0	0	0	0
MSH6	196.4793	189.3529	204.9403	149.5832
MSI1	1.665079	3.05408	52.23969	3.107069
MSI2	31.6365	84.90342	116.5347	90.105
MSL1	478.7103	376.2626	984.5173	456.7392
MSL2	188.9865	79.40607	614.821	130.9408
MSL3	158.1825	78.79526	221.0141	75.45739
MSL3P1	29.13889	181.4123	44.20282	150.4709
MSLN	5838.6	1618.051	136.6269	1748.836
MSLNL	50.78491	1.221632	12.05531	4.882537
MSMB	1.665079	4.275712	0	12.87214
MSMO1	290.5563	657.8488	24.11063	251.2287
MSMP	6.660317	32.98406	36.16594	23.96882
MSN	332.1833	895.4562	811.7245	1100.79
MSR1	18.31587	4.275712	140.6453	7.545739
MSRA	69.93332	54.97344	124.5716	50.15697
MSRB2	355.4944	351.2192	68.31345	189.0873
MSRB3	13.32063	6.10816	112.5163	16.86695
MSS51	17.48333	18.93529	16.07375	28.85136
MST1	66.60317	51.91936	0	86.99794
MST1P2	74.92856	109.3361	0	107.8597
MST1P9	154.8524	133.7687	4.018438	118.9564
MST1R	1717.529	982.8029	76.35032	881.9638
MST4	26.64127	72.6871	16.07375	59.47818
MSTN	0	2.443264	60.27657	1.331601
MSTO1	59.11031	78.79526	40.18438	100.3139
MSTO2P	9.990475	32.98406	0	31.07069
MSX1	14.98571	6.10816	104.4794	16.86695
MSX2	35.7992	6.10816	16.07375	8.87734

MSX2P1	0	0	0	0
MT1A	0	1.221632	20.09219	0.887734
MT1B	97.40713	21.37856	892.0932	22.19335
MT1DP	1.665079	0.610816	0	0
MT1E	162.3452	5.497344	12.05531	13.31601
MT1F	19.98095	14.65958	0	31.51456
MT1G	13.32063	1.221632	0	1.775468
MT1H	0	0	0	0
MT1IP	0	0	0	0
MT1JP	0	0	0	0
MT1L	1.665079	0.610816	20.09219	2.663202
MT1M	4.162698	3.664896	96.44251	7.101872
MT1X	78.25872	53.7518	4.018438	33.29003
MT2A	166.5079	62.91404	574.6366	72.79419
MT3	0.83254	1.832448	20.09219	0.443867
MT4	0	0	0	0
MTA1	579.4475	547.9019	474.1757	577.0271
MTA2	1149.737	732.3683	1289.919	723.9471
MTA3	168.173	227.2235	160.7375	206.842
MTAP	174.0008	3.664896	44.20282	9.321207
MTBP	34.96666	23.82182	16.07375	22.19335
MTCH1	1244.647	1359.676	5075.287	1628.992
MTCH2	626.0698	423.9063	1101.052	318.6965
MTCP1	19.98095	19.54611	8.036876	16.86695
MTCP1NB	39.12936	80.01689	16.07375	34.62163
MTDH	320.5277	379.9275	333.5304	393.71
MTERF	36.63174	83.07097	44.20282	60.36591
MTERFD1	83.25396	109.9469	100.461	57.25885
MTERFD2	137.369	191.7962	36.16594	176.6591
MTERFD3	59.11031	55.58425	20.09219	43.49897
MTF1	128.2111	64.74649	212.9772	97.65074
MTF2	71.5984	84.90342	164.756	108.3036
MTFMT	37.46428	58.63833	28.12907	47.0499
MTFP1	502.0214	486.2095	12.05531	300.498
MTFR1	114.8905	95.8981	20.09219	82.1154
MTG1	513.6769	622.4215	40.18438	353.762
MTHFD1	457.8968	474.604	152.7006	320.9159
MTHFD1L	465.3896	89.17913	52.23969	69.24325
MTHFD2	255.5897	100.7846	56.25813	90.99274
MTHFD2L	18.31587	50.08691	0	33.29003
MTHFR	230.6135	167.3636	108.4978	209.9491
MTHFS	14.15317	25.65427	0	21.30562
MTHFSD	149.8571	128.8822	28.12907	119.8441
MTIF2	208.1349	167.9744	32.1475	143.8129
MTIF3	320.5277	263.2617	0	125.1705
MTL5	58.27777	80.01689	24.11063	57.70271
MTM1	46.62222	105.0603	8.036876	64.80458



MTMR1	85.75158	92.23321	56.25813	89.66114
MTMR10	53.28253	84.2926	24.11063	97.65074
MTMR11	870.8364	389.7006	156.7191	471.3868
MTMR12	99.90475	171.0285	28.12907	202.4034
MTMR14	348.8341	233.9425	301.3829	219.7142
MTMR2	70.76586	177.1366	261.1985	139.3742
MTMR3	256.4222	309.6837	502.3048	322.2475
MTMR4	131.5413	270.5915	329.5119	277.4169
MTMR6	29.97142	54.36262	104.4794	54.15178
MTMR7	4.995237	7.329791	20.09219	12.42828
MTMR8	11.65555	0	0	0
MTMR9	32.46904	45.8112	60.27657	39.94803
MTMR9LP	206.4698	74.51955	0	56.37111
MTNR1A	0	0	12.05531	0.887734
MTNR1B	0	0	0	0.443867
MTO1	51.61745	49.47609	44.20282	47.93764
MTOR	298.8817	287.6943	261.1985	369.7412
MTPAP	90.74681	114.8334	32.1475	98.98235
MTPN	0	0	0	0
MTR	84.0865	156.3689	52.23969	152.6903
MTRF1	89.91427	54.97344	60.27657	62.58525
MTRF1L	26.64127	12.82714	0	19.08628
MTRNR2L1	1785.797	91.01158	719.3004	3.107069
MTRNR2L1	0	1.221632	4.018438	0
MTRNR2L2	5.827777	6.10816	0	1.331601
MTRNR2L3	0	1.221632	0	0
MTRNR2L4	0.83254	0	0	0
MTRNR2L5	0	0	0	0
MTRNR2L6	39.9619	114.8334	1683.726	5.326404
MTRNR2L7	43.29206	58.02752	466.1388	0
MTRNR2L8	0.83254	1.221632	4.018438	0.443867
MTRR	34.13412	92.23321	4.018438	127.8337
MTSS1	158.1825	47.03283	867.9826	60.80978
MTSS1L	112.3928	196.6827	176.8113	311.5946
MTPP	0	1.832448	32.1475	6.214138
MTUS1	386.2984	489.8744	120.5531	662.6935
MTUS2	2.497619	0.610816	24.11063	0.443867
MTVR2	2.497619	1.832448	8.036876	0
MTX1	189.819	234.5533	148.6822	212.1684
MTX2	222.2881	389.0898	558.5629	242.3514
MTX3	10.82301	47.64364	4.018438	48.3815
MUC1	26775.31	3837.757	164.756	7899.057
MUC12	140.6992	18.93529	0	19.53015
MUC13	7601.919	246.1588	100.461	685.7745
MUC15	0	0	4.018438	2.219335
MUC16	14.15317	819.1042	84.3872	1342.698
MUC17	976.5689	19.54611	32.1475	10.20894

MUC2	8.325396	0	28.12907	8.87734
MUC20	1459.442	456.2795	36.16594	1028.884
MUC21	0	0	0	0
MUC22	0	0	0	0
MUC4	4396.642	11.6055	4.018438	49.26924
MUC5B	1119.766	9967.906	36.16594	18550.09
MUC6	392.9587	381.76	20.09219	3457.724
MUC7	0	0.610816	0	0
MUCL1	0	0.610816	0	0
MUDENG	47.45476	78.79526	16.07375	70.13099
MUL1	215.6278	321.9	128.59	244.5707
MUM1	768.434	235.775	124.5716	245.4585
MUM1L1	0	0.610816	0	0
MURC	0.83254	3.664896	12.05531	0.887734
MUS81	607.7539	545.4586	269.2353	446.0864
MUSK	0.83254	2.443264	20.09219	0.443867
MUSTN1	6.660317	0.610816	0	1.775468
MUT	132.3738	264.4833	72.33188	189.5312
MUTED	0	0	0	0
MUTED-TX	0	0	0	0
MUTYH	287.2262	225.3911	24.11063	143.8129
MVD	2238.699	1133.674	52.23969	434.1019
MVK	423.7626	191.1854	44.20282	90.54887
MVP	5094.31	3148.756	2636.095	2004.503
MX1	795.9078	813.6069	40.18438	828.2559
MX2	143.1968	103.8387	20.09219	191.3067
MXD1	149.0246	60.47078	16.07375	133.604
MXD3	611.0841	330.4514	12.05531	249.4533
MXD4	462.892	256.5427	494.2679	482.4834
MXI1	139.8666	39.70304	297.3644	94.54367
MXRA5	59.94285	14.65958	0	32.40229
MXRA7	9.157935	21.37856	80.36876	23.08108
MXRA8	342.1738	31.76243	192.885	101.6455
MYADM	59.94285	302.9647	16.07375	157.1289
MYADML	0	1.221632	8.036876	3.994803
MYADML2	0	1.832448	0	5.326404
MYB	143.1968	56.80588	8.036876	23.08108
MYBBP1A	147.3595	149.0391	48.22126	175.3275
MYBL1	7.492856	6.718975	20.09219	11.09668
MYBL2	1665.912	511.8638	56.25813	468.2797
MYBPC1	7.492856	3.664896	594.7288	3.550936
MYBPC2	0.83254	0	634.9132	0
MYBPC3	9.157935	5.497344	40.18438	3.994803
MYBPH	0	0.610816	88.40564	2.663202
MYBPHL	4.162698	1.221632	0	0
MYC	481.2079	317.6243	281.2907	191.7506
MYCBP	4.995237	9.162239	16.07375	3.994803

MYCBP2	188.1539	172.8609	1639.523	184.6487
MYCBPAP	2.497619	2.443264	16.07375	8.87734
MYCL1	16.65079	10.38387	36.16594	6.658005
MYCN	36.63174	10.38387	28.12907	9.765074
MYCNOS	0	0	4.018438	0
MYCT1	1.665079	6.10816	116.5347	7.989606
MYD88	194.8143	257.1535	100.461	367.078
MYEF2	4.995237	45.8112	80.36876	106.0842
MYEOV	502.0214	359.7706	4.018438	290.7329
MYEOV2	686.8452	678.0057	1615.412	343.1092
MYF5	0	0	12.05531	0
MYF6	0	0	32.1475	0
MYH1	42.45952	1.221632	5983.454	0.443867
MYH10	44.95714	34.20569	245.1247	106.0842
MYH11	20.81349	20.15693	257.18	37.28483
MYH13	9.157935	0	598.7473	0.887734
MYH14	4172.688	1956.444	221.0141	1047.97
MYH15	9.990475	6.10816	16.07375	11.09668
MYH16	0	7.940607	4.018438	3.550936
MYH2	24.97619	1.221632	3998.346	0
MYH3	17.48333	9.162239	478.1941	13.75988
MYH4	14.15317	1.221632	5870.938	0
MYH6	0.83254	0.610816	618.8395	2.219335
MYH7	4.162698	1.221632	486.231	0
MYH7B	19.98095	9.162239	108.4978	19.97402
MYH8	2.497619	0	984.5173	0
MYH9	2574.212	3488.37	1695.781	3129.262
MYL1	5.827777	0	2933.46	0.443867
MYL10	0.83254	0	522.3969	0.443867
MYL12A	1406.992	4934.171	357.641	2568.658
MYL12B	3020.454	5868.72	3054.013	3167.435
MYL2	0	0	12.05531	0
MYL3	22.47857	25.65427	976.4804	23.96882
MYL4	5.827777	1.832448	152.7006	3.550936
MYL5	180.6611	55.58425	482.2126	74.56966
MYL6	15812.42	9833.526	37986.29	5967.348
MYL6B	158.1825	181.4123	80.36876	146.4761
MYL7	0	0.610816	8.036876	1.775468
MYL9	239.7714	334.7271	4990.9	566.8182
MYLIP	24.14365	23.21101	872.0011	66.58005
MYLK	12.48809	109.9469	88.40564	105.6404
MYLK-AS1	22.47857	13.43795	0	10.65281
MYLK2	9.990475	0.610816	140.6453	2.219335
MYLK3	0	1.832448	0	1.775468
MYLK4	0.83254	8.551423	0	27.96362
MYLPF	19.98095	5.497344	4560.927	6.214138
MYNN	94.90951	80.01689	12.05531	63.47298

MYO10	247.2643	567.448	124.5716	417.235
MYO15A	24.97619	4.275712	48.22126	15.09148
MYO15B	666.8642	362.2139	229.051	359.9762
MYO16	5.827777	2.443264	8.036876	10.65281
MYO18A	228.9484	1315.087	277.2722	1437.241
MYO18B	4.995237	0	0	0
MYO19	436.2507	594.3239	32.1475	505.5645
MYO1A	579.4475	12.21632	24.11063	6.214138
MYO1B	67.43571	334.7271	184.8482	497.5749
MYO1C	652.711	1031.668	763.5032	1064.837
MYO1D	917.4586	1314.476	32.1475	465.1726
MYO1E	148.192	370.1545	526.4154	545.0687
MYO1F	49.11984	24.43264	281.2907	59.47818
MYO1G	59.94285	12.21632	582.6735	35.06549
MYO1H	3.330158	1.832448	0	0.887734
MYO3A	0	0	0	0.443867
MYO3B	0.83254	0	12.05531	4.882537
MYO5A	25.80873	26.8759	401.8438	72.35032
MYO5B	258.9198	503.9232	24.11063	519.3244
MYO5C	74.92856	196.6827	20.09219	288.9574
MYO6	586.1079	362.8247	32.1475	415.0157
MYO7A	268.0777	130.7146	196.9035	243.2391
MYO7B	1508.562	154.5364	24.11063	68.35552
MYO9A	2.497619	38.48141	116.5347	51.93244
MYO9B	691.0078	293.1917	152.7006	306.7121
MYOC	0.83254	0	417.9176	0.443867
MYOCD	0	0	8.036876	0.443867
MYOD1	0	0	0	0
MYOF	382.9682	914.3915	1233.66	1239.277
MYOG	0	0	8.036876	0.443867
MYOM1	208.9674	168.5852	245.1247	104.7526
MYOM2	36.63174	3.05408	204.9403	19.97402
MYOM3	9.157935	108.1144	8.036876	88.32954
MYOT	1.665079	2.443264	221.0141	0.887734
MYOZ1	5.827777	1.221632	904.1486	0.887734
MYOZ2	0	0	12.05531	0.887734
MYOZ3	0	0	4.018438	0
MYPN	0	14.65958	44.20282	27.96362
MYPOP	82.42142	69.0222	120.5531	55.03951
MYRIP	3.330158	6.10816	0	7.989606
MYSM1	63.27301	119.7199	60.27657	191.3067
MYT1	1.665079	1.221632	48.22126	1.331601
MYT1L	0	1.221632	8.036876	0
MYZAP	38.29682	25.04345	0	39.50416
MZB1	2.497619	3.664896	8.036876	0.887734
MZF1	959.0856	268.759	8.036876	178.4345
MZT1	72.43094	62.91404	24.11063	39.0603

MZT2A	672.692	317.6243	28.12907	155.7973
MZT2B	837.5348	470.9391	24.11063	193.526
N4BP1	328.0206	249.2129	104.4794	247.2339
N4BP2	7.492856	20.76774	36.16594	27.96362
N4BP2L1	31.6365	11.6055	168.7744	19.53015
N4BP2L2	198.1444	232.1101	393.8069	177.5468
N4BP3	83.25396	94.67647	200.9219	47.49377
N6AMT1	61.60793	48.25446	12.05531	47.49377
N6AMT2	40.79444	33.59488	84.3872	17.75468
NAA10	877.4967	814.8285	1398.416	439.8722
NAA11	18.31587	18.93529	393.8069	20.86175
NAA15	105.7325	185.0772	827.7982	154.0219
NAA16	25.80873	28.70835	72.33188	33.73389
NAA20	403.7817	489.8744	510.3416	328.0177
NAA25	74.92856	78.79526	52.23969	75.45739
NAA30	19.98095	42.75712	156.7191	47.49377
NAA35	75.7611	114.8334	216.9957	110.5229
NAA38	320.5277	260.8184	116.5347	179.3223
NAA40	212.2976	227.2235	24.11063	226.3722
NAA50	538.6531	213.7856	755.4664	219.2703
NAA60	596.0983	316.4027	108.4978	329.3493
NAAA	43.29206	86.12505	132.6085	85.22247
NAALAD2	1.665079	7.940607	36.16594	19.08628
NAALADL1	0	0	0	0
NAALADL2	14.15317	32.98406	4.018438	36.84096
NAB1	148.192	171.0285	176.8113	142.9252
NAB2	109.8952	33.59488	281.2907	78.1206
NACA	3425.068	2801.813	1977.072	1364.003
NACA2	2.497619	1.832448	16.07375	0
NACAD	4.162698	10.38387	24.11063	14.64761
NACAP1	154.8524	72.07628	2595.911	90.105
NACC1	387.9634	189.3529	80.36876	279.1924
NACC2	154.8524	177.7474	76.35032	173.1081
NADK	469.5523	413.5224	393.8069	430.9949
NADKD1	47.45476	54.36262	88.40564	41.27963
NADSYN1	1362.035	916.8347	64.29501	615.6436
NAE1	129.8762	190.5746	478.1941	122.0634
NAF1	19.14841	41.53548	12.05531	30.62682
NAGA	225.6182	325.5649	92.42408	210.8368
NAGK	260.5849	313.9594	1579.246	258.3306
NAGLU	318.0301	430.6252	466.1388	369.2974
NAGPA	134.0389	111.7793	116.5347	115.8493
NAGS	34.96666	18.93529	4.018438	19.97402
NAIF1	59.11031	61.69241	4.018438	34.17776
NAIP	6.660317	6.718975	20.09219	4.882537
NALCN	0	0.610816	4.018438	2.219335
NAMPT	123.2159	102.0063	172.7928	170.4449

NANOG	0	1.221632	0	0
NANOGNB	0	0	0	0
NANOS1	67.43571	21.98937	28.12907	40.83577
NANOS2	0	0	8.036876	0
NANOS3	3.330158	41.53548	4.018438	11.98441
NANP	34.96666	47.64364	20.09219	35.95323
NANS	1240.484	521.6368	1466.73	338.6705
NAP1L1	984.8943	896.6778	2672.261	438.9845
NAP1L2	0	1.221632	60.27657	2.663202
NAP1L3	0	0	0	0
NAP1L4	1126.426	495.9826	381.7516	472.7184
NAP1L5	9.990475	28.09753	0	30.62682
NAP1L6	0	0	0	0.443867
NAPA	1442.791	1099.469	779.577	851.3369
NAPB	60.77539	59.85996	24.11063	80.7838
NAPEPLD	57.44523	210.1207	16.07375	178.4345
NAPG	131.5413	197.9044	44.20282	181.9855
NAPRT1	3728.112	1523.375	152.7006	1161.6
NAPSA	27.47381	25.04345	40.18438	18.19855
NAPSB	1.665079	1.832448	0	2.219335
NARF	467.8872	360.9922	32.1475	241.4637
NARFL	551.9737	328.619	48.22126	290.7329
NARG2	21.64603	109.3361	44.20282	120.7318
NARS	303.0444	382.9816	671.0792	480.708
NARS2	44.1246	98.95218	12.05531	67.91165
NASP	1218.838	794.6716	474.1757	631.6228
NAT1	24.97619	65.35731	4.018438	47.49377
NAT10	550.3087	276.6996	261.1985	243.683
NAT14	305.542	625.4755	16.07375	290.7329
NAT16	0	2.443264	0	1.775468
NAT2	4.995237	2.443264	0	7.989606
NAT6	204.8047	67.18975	261.1985	52.82018
NAT8	1.665079	0	16.07375	3.994803
NAT8B	19.14841	3.05408	0	2.663202
NAT8L	2.497619	0.610816	24.11063	1.775468
NAT9	507.8491	708.5465	365.6779	416.7911
NAV1	123.2159	105.0603	807.706	197.077
NAV2	36.63174	39.09222	80.36876	119.4002
NAV2-AS4	0	0	0	0
NAV3	2.497619	12.21632	76.35032	33.73389
NBAS	189.819	192.407	80.36876	140.262
NBEA	10.82301	53.7518	124.5716	52.37631
NBEAL1	18.31587	50.69772	32.1475	31.07069
NBEAL2	3246.904	1328.525	305.4013	1074.602
NBEAP1	0	0	0	0
NBL1	17.48333	28.70835	96.44251	33.29003
NBLA0030:	0	0	0	0

NBN	115.723	205.2342	32.1475	140.262
NBPF1	4.995237	14.04877	0	29.73909
NBPF10	4.995237	21.37856	0	40.3919
NBPF11	0	0	0	0
NBPF14	18.31587	6.718975	0	15.09148
NBPF15	0.83254	1.221632	0	4.43867
NBPF16	0	0	0	2.219335
NBPF22P	0	0	0	0
NBPF24	0	0	0	0
NBPF3	0	3.05408	8.036876	9.321207
NBPF4	0	2.443264	0	1.331601
NBPF6	0	0	0	0
NBPF7	0	0	0	0
NBPF9	0.83254	3.05408	0	10.20894
NBR1	208.1349	732.9791	297.3644	572.1446
NBR2	46.62222	25.65427	4.018438	43.94283
NCALD	355.4944	1.832448	20.09219	8.433473
NCAM1	43.29206	53.14099	76.35032	66.58005
NCAM2	0	0	0	0
NCAN	0	0	4.018438	0
NCAPD2	416.2698	521.026	128.59	523.7631
NCAPD3	143.1968	181.4123	8.036876	197.9647
NCAPG	130.7087	128.8822	8.036876	74.56966
NCAPG2	100.7373	226.6127	4.018438	148.6955
NCAPH	137.369	104.4495	4.018438	86.99794
NCAPH2	477.0452	891.7913	763.5032	491.8047
NCBP1	141.5317	150.8715	381.7516	144.7006
NCBP2	604.4237	273.0347	196.9035	245.0146
NCCRP1	0.83254	9.162239	4.018438	20.41788
NCDN	213.9627	201.5693	622.8579	264.9886
NCEH1	165.6754	306.6296	20.09219	398.1487
NCF1	1.665079	1.221632	4.018438	4.882537
NCF1B	0	0	0	2.663202
NCF1C	0	0	0	3.994803
NCF2	224.7857	58.63833	2169.957	115.8493
NCF4	213.1301	47.03283	928.2592	108.7474
NCK1	61.60793	110.5577	791.6323	188.6435
NCK2	191.4841	490.4852	221.0141	448.3057
NCKAP1	198.1444	516.7503	369.6963	438.5406
NCKAP1L	119.0532	55.58425	1555.136	221.0458
NCKAP5	1.665079	7.329791	0	15.09148
NCKAP5L	115.723	71.46547	208.9588	122.0634
NCKIPSD	283.0635	147.8175	168.7744	124.7266
NCL	3332.656	3541.511	7711.383	2652.549
NCLN	2087.177	519.8044	140.6453	375.0676
NCOA1	115.723	34.81651	329.5119	70.57486
NCOA2	6.660317	50.08691	132.6085	68.35552

NCOA3	158.1825	242.4939	156.7191	336.0073
NCOA4	150.6897	508.8097	309.4197	518.8805
NCOA5	328.8531	200.3476	176.8113	256.1113
NCOA6	263.915	231.4992	401.8438	330.6809
NCOA7	199.8095	155.1473	152.7006	127.3898
NCOR1	246.4317	272.4239	466.1388	244.5707
NCOR1P1	0	0	4.018438	0
NCOR2	909.9658	394.5871	301.3829	407.4699
NCR1	0	3.664896	0	0
NCR2	0	0.610816	0	0
NCR3	0	0	0	0
NCRNA001	79.09126	0	0	0
NCRUPAR	0	1.221632	0	0
NCS1	65.77063	33.59488	12.05531	44.83057
NCSTN	292.2214	510.0313	409.8807	661.3619
NDC80	98.23967	256.5427	32.1475	124.7266
NDE1	102.4024	84.2926	64.29501	83.89087
NDEL1	112.3928	162.477	538.4707	174.4397
NDFIP1	391.2936	355.4949	1575.228	322.6913
NDFIP2	87.41666	124.6065	116.5347	119.4002
NDN	1.665079	9.162239	313.4382	16.42308
NDNF	5.827777	17.10285	4.018438	35.50936
NDNL2	35.7992	67.18975	152.7006	117.1809
NDOR1	1024.024	295.6349	28.12907	335.5635
NDP	1.665079	8.551423	12.05531	13.31601
NDRG1	3413.412	982.8029	494.2679	1013.792
NDRG2	651.0459	173.4717	610.8026	267.6518
NDRG3	182.3262	185.688	196.9035	163.3431
NDRG4	7.492856	6.718975	72.33188	17.75468
NDST1	154.0198	101.3954	249.1432	266.3202
NDST2	149.8571	145.985	325.4935	226.816
NDST3	0	1.832448	4.018438	2.219335
NDST4	0	1.221632	4.018438	2.219335
NDUFA1	939.1046	1557.581	377.7332	609.4294
NDUFA10	1125.594	892.4021	333.5304	517.1051
NDUFA11	1999.76	899.7319	281.2907	681.3359
NDUFA12	374.6428	240.0507	1181.421	161.1237
NDUFA13	2560.892	1199.643	1084.978	815.8276
NDUFA2	1565.174	528.3558	2816.925	404.8067
NDUFA3	587.7729	830.0989	124.5716	404.8067
NDUFA4	590.2706	1367.617	285.3091	569.4814
NDUFA4L2	1706.706	73.29791	337.5488	20.86175
NDUFA5	153.1873	160.6446	16.07375	89.66114
NDUFA6	712.6539	682.2814	3696.963	371.5167
NDUFA7	1015.698	308.4621	405.8622	222.8212
NDUFA8	382.9682	236.9966	1314.029	167.3379
NDUFA9	749.2856	976.0839	221.0141	543.2932



NDUFAB1	974.9038	436.1226	1261.79	289.8452
NDUFAB2	44.1246	100.1738	124.5716	78.56446
NDUFAB3	98.23967	76.96281	60.27657	43.94283
NDUFAB4	464.5571	332.2839	96.44251	303.605
NDUFAB5	30.80396	33.59488	0	21.74948
NDUFB1	387.9634	572.3345	8.036876	240.5759
NDUFB10	1150.57	451.393	863.9642	323.1352
NDUFB11	1379.518	754.9685	1217.587	494.9117
NDUFB2	1055.66	907.0617	438.0097	433.2142
NDUFB3	409.6095	770.8497	64.29501	443.867
NDUFB4	762.6063	424.5171	116.5347	352.4304
NDUFB5	565.2944	365.8788	4.018438	205.0666
NDUFB6	249.7619	355.4949	630.8948	176.6591
NDUFB7	1909.013	715.8763	3463.894	476.2693
NDUFB8	994.0523	567.448	1639.523	320.472
NDUFB9	2606.681	1013.344	1410.472	693.7641
NDUFC1	401.2841	395.1979	92.42408	253.4481
NDUFC2	110.7278	98.95218	0	49.26924
NDUFC2-KI	0	0	0	0
NDUFS1	214.7952	485.5987	586.692	352.4304
NDUFS2	779.257	915.6131	3620.613	721.2839
NDUFS3	1282.111	497.815	2021.274	343.5531
NDUFS4	395.4563	415.3548	1390.38	237.4689
NDUFS5	1900.688	1087.863	36.16594	753.2423
NDUFS6	1225.498	722.5953	1305.992	458.5146
NDUFS7	845.0277	302.3539	932.2776	201.5156
NDUFS8	875.8316	715.2655	2129.772	552.6144
NDUFV1	2753.208	1316.919	2427.137	1124.759
NDUFV2	1220.503	684.1139	2479.376	556.1654
NDUFV3	228.1158	167.3636	369.6963	122.9512
NEAT1	6414.717	3425.456	192.885	5927.844
NEB	269.7428	614.4808	466.1388	528.2018
NEBL	77.42618	68.41139	24.11063	77.23286
NECAB1	4.995237	4.886528	4.018438	7.989606
NECAB2	0	0	12.05531	0.443867
NECAB3	307.2071	251.6562	12.05531	238.3566
NECAP1	94.07697	190.5746	44.20282	175.7713
NECAP2	546.146	453.2254	285.3091	348.8795
NEDD1	34.13412	26.26509	32.1475	20.86175
NEDD4	14.15317	42.1463	409.8807	115.4054
NEDD4L	212.2976	169.196	285.3091	253.4481
NEDD8	669.3618	508.1989	172.7928	301.8296
NEDD8-ME	0	0	0	0
NEDD9	61.60793	164.9203	52.23969	113.1861
NEFH	1.665079	1.221632	0	0.887734
NEFL	0	0.610816	44.20282	1.775468
NEFM	0	0	16.07375	0.443867

NEGR1	0	2.443264	4.018438	0.443867
NEGR1-IT1	0	0	0	0
NEIL1	124.8809	70.85465	84.3872	139.8181
NEIL2	60.77539	110.5577	16.07375	129.1653
NEIL3	10.82301	31.15161	4.018438	23.08108
NEK1	8.325396	25.04345	28.12907	39.0603
NEK10	0.83254	0.610816	0	1.775468
NEK11	188.9865	102.0063	0	67.02392
NEK2	71.5984	134.9903	0	110.9668
NEK3	159.8476	87.34668	28.12907	38.17256
NEK4	9.157935	81.23852	28.12907	88.7734
NEK5	0.83254	1.832448	0	0.443867
NEK6	975.7364	346.3326	124.5716	433.2142
NEK7	44.1246	75.74118	104.4794	106.0842
NEK8	64.93809	78.79526	48.22126	77.67673
NEK9	106.5651	284.0294	659.0238	411.0209
NELF	1168.886	263.8725	265.2169	369.7412
NELL1	0.83254	0.610816	12.05531	0
NELL2	0	0	4.018438	1.775468
NEMF	85.75158	137.4336	188.8666	123.8389
NENF	756.7785	727.4818	3295.119	563.7111
NEO1	118.2206	131.3254	357.641	194.8576
NES	0.83254	92.84402	16.07375	93.65594
NET1	382.1357	709.1573	52.23969	515.3296
NETO1	0	0	0	0
NETO2	29.13889	55.58425	0	32.84616
NEU1	0	0	0	0
NEU2	0	0	4.018438	0
NEU3	1.665079	3.05408	16.07375	5.326404
NEU4	4.995237	9.162239	0	17.31081
NEURL	17.48333	1.832448	32.1475	15.53535
NEURL1B	251.427	122.1632	4.018438	90.54887
NEURL2	16.65079	11.6055	216.9957	9.765074
NEURL3	22.47857	433.6793	24.11063	217.9387
NEURL4	195.6468	196.6827	409.8807	262.7693
NEUROD1	0	0.610816	8.036876	0
NEUROD2	2.497619	0	32.1475	0.443867
NEUROD4	0	1.221632	0	0
NEUROD6	0	0	0	0.443867
NEUROG1	0	0	12.05531	0
NEUROG2	0	0	12.05531	0
NEUROG3	0	0	8.036876	0
NEXN	1.665079	7.940607	100.461	11.98441
NF1	84.91904	269.9807	196.9035	241.4637
NF1P2	0	0	0	0
NF2	277.2357	205.845	124.5716	215.2755
NFAM1	19.98095	8.551423	4.018438	17.75468

NFASC	4.995237	2.443264	152.7006	6.658005
NFAT5	107.3976	104.4495	389.7885	209.0614
NFATC1	99.07221	33.59488	48.22126	35.50936
NFATC2	2.497619	4.275712	44.20282	3.994803
NFATC2IP	412.1071	282.8078	8.036876	274.7537
NFATC3	317.1976	185.0772	84.3872	158.9044
NFATC4	208.9674	205.845	478.1941	462.0656
NFE2	11.65555	1.221632	12.05531	2.219335
NFE2L1	384.6333	991.3543	1338.14	972.9565
NFE2L2	174.0008	478.8797	385.7701	409.2454
NFE2L3	156.5174	77.57363	8.036876	95.43141
NFIA	126.546	105.6712	892.0932	100.3139
NFIB	328.8531	444.0632	2133.791	321.8036
NFIC	539.4856	302.9647	68.31345	320.0281
NFIL3	63.27301	58.63833	36.16594	68.35552
NFIX	221.4555	59.24915	2286.491	102.9771
NFKB1	188.9865	268.1482	530.4338	279.1924
NFKB2	1143.909	358.549	675.0976	450.525
NFKBIA	713.4864	522.8585	1113.107	506.0084
NFKBIB	496.1936	368.322	289.3275	210.393
NFKBID	58.27777	65.35731	80.36876	89.66114
NFKBIE	590.2706	309.0729	56.25813	274.7537
NFKBIL1	0	0	0	0
NFKBIZ	778.4245	414.1332	92.42408	634.286
NFRKB	197.3119	285.2511	56.25813	295.1716
NFS1	114.0579	118.4983	229.051	151.3587
NFU1	159.0151	335.338	425.9544	173.9959
NFX1	181.4936	251.0454	349.6041	304.0489
NFXL1	45.78968	69.63302	88.40564	98.09461
NFYA	139.8666	148.4283	92.42408	209.5052
NFYB	109.0627	94.06566	160.7375	51.04471
NFYC	262.25	175.915	277.2722	158.9044
NGB	0	0	4.018438	0
NGDN	259.7523	245.548	510.3416	162.0115
NGEF	200.642	290.7484	24.11063	162.8992
NGF	1.665079	0.610816	16.07375	1.331601
NGFR	0	0.610816	56.25813	0.887734
NGFRAP1	13.32063	272.4239	265.2169	405.6945
NGLY1	169.8381	123.3848	285.3091	97.20688
NGRN	537.8206	987.6894	112.5163	858.8827
NHEG1	0.83254	0	0	0.443867
NHEJ1	81.58888	99.563	40.18438	58.14658
NHLH1	15.81825	1.221632	0	5.770271
NHLH2	0	0	8.036876	0
NHLRC1	3.330158	14.65958	20.09219	19.08628
NHLRC2	13.32063	28.70835	48.22126	32.40229
NHLRC3	115.723	106.8928	20.09219	120.7318

NHLRC4	14.15317	1.221632	4.018438	7.989606
NHP2	1098.12	580.886	421.936	356.4252
NHP2L1	1410.322	1168.491	373.7147	581.9097
NHS	141.5317	41.53548	20.09219	39.94803
NHSL1	216.4603	25.65427	40.18438	39.94803
NHSL2	0	7.329791	32.1475	0.887734
NICN1	64.10555	70.24383	8.036876	87.4418
NID1	36.63174	38.48141	333.5304	105.1965
NID2	9.990475	18.93529	68.31345	35.95323
NIF3L1	154.0198	177.7474	160.7375	143.8129
NIM1	5.827777	0.610816	60.27657	7.989606
NIN	66.60317	47.64364	108.4978	82.1154
NINJ1	333.0158	145.985	1840.445	245.4585
NINJ2	4.995237	93.45484	20.09219	79.00833
NINL	69.10078	117.8875	0	217.9387
NIP7	144.8619	178.3583	80.36876	123.8389
NIPA1	356.3269	159.423	16.07375	161.1237
NIPA2	691.0078	415.9657	156.7191	454.076
NIPAL1	1.665079	7.329791	0	4.882537
NIPAL2	34.13412	21.37856	12.05531	36.3971
NIPAL3	194.8143	156.3689	8.036876	141.5936
NIPAL4	1.665079	0	20.09219	0
NIPBL	211.4651	297.4674	944.3329	309.8192
NIPSNAP1	540.3182	527.745	64.29501	381.2818
NIPSNAP3A	104.9	65.96812	120.5531	40.3919
NIPSNAP3B	0.83254	1.832448	44.20282	1.331601
NISCH	796.7404	299.9106	952.3698	500.2381
NIT1	320.5277	314.5702	144.6638	280.0801
NIT2	858.3483	501.4799	357.641	286.7381
NKAIN1	4.162698	1.832448	160.7375	3.550936
NKAIN2	0	0.610816	12.05531	0.887734
NKAIN3	0	4.886528	0	3.107069
NKAIN4	0	1.221632	8.036876	2.219335
NKAP	68.26825	190.5746	44.20282	94.98754
NKAPL	0	0	8.036876	0
NKAPP1	4.995237	4.275712	0	4.43867
NKD1	0.83254	0.610816	8.036876	5.770271
NKD2	26.64127	3.05408	0	17.31081
NKG7	12.48809	2.443264	140.6453	1.775468
NKIRAS1	29.13889	21.37856	168.7744	22.19335
NKIRAS2	124.8809	274.8672	88.40564	263.2131
NKPD1	4.162698	2.443264	16.07375	6.658005
NKRF	44.95714	95.28729	88.40564	67.02392
NKTR	735.1324	191.7962	200.9219	441.6477
NKX1-2	0	0	0	0
NKX2-1	2.497619	0.610816	52.23969	0
NKX2-2	0	0	32.1475	0

NKX2-3	0	0	4.018438	0
NKX2-4	0	0	16.07375	0
NKX2-5	0	0.610816	20.09219	0
NKX2-6	0.83254	0	4.018438	0
NKX2-8	0	0	0	0.887734
NKX3-1	23.31111	2.443264	0	12.42828
NKX3-2	2.497619	0	24.11063	0
NKX6-1	0.83254	1.221632	8.036876	1.331601
NKX6-2	0	0	0	0.443867
NKX6-3	0	0	4.018438	0
NLE1	201.4746	195.4611	216.9957	94.54367
NLGN1	0	4.886528	8.036876	1.775468
NLGN2	58.27777	43.97875	221.0141	91.88047
NLGN3	20.81349	4.275712	76.35032	27.96362
NLGN4X	1.665079	0.610816	4.018438	0
NLGN4Y	0	0	0	0
NLK	73.26348	88.56831	429.9729	118.5125
NLN	115.723	251.6562	381.7516	170.4449
NLRC3	4.995237	1.832448	8.036876	5.326404
NLRC4	4.162698	3.664896	20.09219	7.545739
NLRC5	217.2928	83.68179	12.05531	168.6695
NLRP1	197.3119	81.23852	12.05531	191.3067
NLRP10	0	0	0	0
NLRP11	0	0	0	0.443867
NLRP12	0	2.443264	0	0.887734
NLRP13	0	0	0	0
NLRP14	0	0	0	0.887734
NLRP2	0.83254	1138.561	0	674.6779
NLRP3	1.665079	0.610816	44.20282	7.101872
NLRP4	0	0	0	0
NLRP5	0	0.610816	12.05531	1.775468
NLRP6	0	1.221632	0	0
NLRP7	0.83254	0.610816	0	0
NLRP8	0	0	0	0
NLRP9	6.660317	7.329791	0	5.770271
NLRX1	98.23967	200.3476	68.31345	152.2464
NMB	198.1444	187.5205	76.35032	258.3306
NMBR	0	0	4.018438	0
NMD3	74.92856	135.6011	345.5857	101.2017
NME1	830.042	585.7725	96.44251	263.657
NME1-NM	0	0	0	0
NME2	250.5944	323.1216	4.018438	122.5073
NME3	1549.356	1010.9	273.2538	705.3047
NME4	229.7809	330.4514	132.6085	358.2007
NME5	1.665079	2.443264	0	3.994803
NME6	80.75634	56.19507	128.59	45.7183
NME7	58.27777	122.774	60.27657	61.25365

NME9	34.96666	1.832448	0	3.550936
NMI	229.7809	427.5712	8.036876	230.8108
NMNAT1	69.93332	44.58956	12.05531	50.15697
NMNAT2	36.63174	78.18444	20.09219	112.2984
NMNAT3	52.44999	1.832448	64.29501	4.882537
NMRAL1	477.8777	384.8141	84.3872	302.2734
NMS	0	0	4.018438	0
NMT1	409.6095	823.3799	1884.647	745.6966
NMT2	105.7325	123.3848	160.7375	67.91165
NMU	399.619	191.7962	0	100.7578
NMUR1	0	0	4.018438	0.443867
NMUR2	358.8246	3.05408	8.036876	0
NNAT	1.665079	3.05408	4.018438	14.64761
NNMT	2115.483	6.10816	112.5163	8.87734
NNT	31.6365	139.8769	128.59	122.9512
NOA1	120.7182	238.2182	96.44251	132.2724
NOB1	295.5516	433.0685	212.9772	214.8316
NOBOX	0	0	4.018438	0
NOC2L	730.1372	575.3886	112.5163	483.3712
NOC3L	84.91904	70.24383	8.036876	48.82537
NOC4L	452.9015	174.6934	60.27657	144.2568
NOD1	143.1968	92.84402	72.33188	89.66114
NOD2	27.47381	1.832448	12.05531	7.101872
NODAL	0	1.832448	4.018438	3.550936
NOG	1.665079	6.718975	40.18438	3.550936
NOL10	203.9722	238.2182	76.35032	160.236
NOL11	248.0968	265.7049	32.1475	139.3742
NOL12	329.6857	242.4939	550.526	125.1705
NOL3	532.8253	301.7431	92.42408	346.6601
NOL4	0.83254	0.610816	8.036876	0.887734
NOL6	427.0928	417.7981	120.5531	461.6217
NOL7	161.5127	370.7653	618.8395	217.051
NOL8	86.58412	89.17913	8.036876	77.23286
NOL9	134.0389	128.8822	0	101.6455
NOLC1	1300.427	434.901	321.475	344.8847
NOM1	92.41189	134.3795	88.40564	102.9771
NOMO1	112.3928	134.3795	8.036876	128.7214
NOMO2	1.665079	7.329791	0	15.53535
NOMO3	0	3.05408	0	2.663202
NONO	867.5062	2120.753	1185.439	1400.844
NOP10	444.5761	1180.096	980.4989	725.7226
NOP14	157.35	215.0072	212.9772	201.5156
NOP14-AS:	102.4024	109.3361	0	106.5281
NOP16	712.6539	288.9159	160.7375	200.6279
NOP2	532.8253	601.0429	100.461	577.9149
NOP56	1158.895	1020.673	542.4891	626.2964
NOP58	521.1698	533.2423	522.3969	357.3129

NOS1	0	0	16.07375	1.775468
NOS1AP	9.157935	8.551423	12.05531	9.321207
NOS2	269.7428	2.443264	12.05531	3.107069
NOS3	69.10078	9.162239	68.31345	44.83057
NOSIP	1161.393	917.4456	723.3188	383.5011
NOSTRIN	226.4508	430.6252	132.6085	138.0426
NOTCH1	201.4746	121.5524	68.31345	140.262
NOTCH2	144.0293	255.3211	124.5716	447.8618
NOTCH2NL	128.2111	119.7199	0	99.87008
NOTCH3	119.0532	193.6287	104.4794	251.6726
NOTCH4	0	0	4.018438	0.443867
NOTO	0	0	0	0
NOTUM	0.83254	0	8.036876	0.443867
NOV	38.29682	53.7518	20.09219	89.66114
NOVA1	12.48809	26.26509	1543.08	75.90126
NOVA2	2.497619	0.610816	60.27657	1.775468
NOX1	3.330158	1.221632	0	1.775468
NOX3	0	0	0	0
NOX4	0	7.329791	48.22126	15.97921
NOX5	0	1.221632	0	3.550936
NOXA1	819.2189	287.0835	20.09219	230.8108
NOXO1	328.0206	51.91936	8.036876	49.71311
NOXRED1	3.330158	4.886528	4.018438	8.433473
NPAS1	18.31587	15.2704	4.018438	7.545739
NPAS2	775.0943	551.5668	88.40564	588.1238
NPAS3	1.665079	3.05408	48.22126	3.550936
NPAS4	1.665079	0.610816	48.22126	1.331601
NPAT	23.31111	45.8112	20.09219	42.61123
NPB	19.98095	27.48672	0	28.40749
NPBWR1	0	3.664896	8.036876	6.658005
NPBWR2	0	0	0	0
NPC1	127.3786	103.8387	40.18438	135.8233
NPC1L1	735.965	781.8444	24.11063	563.7111
NPC2	461.2269	641.3568	2479.376	717.2891
NPDC1	3010.463	76.96281	212.9772	211.7246
NPEPL1	5.827777	15.2704	32.1475	19.08628
NPEPPS	270.5754	543.0154	309.4197	625.4086
NPFF	86.58412	10.38387	92.42408	16.86695
NPFFR1	0	0	4.018438	0.887734
NPFFR2	0	0	4.018438	0.887734
NPHP1	144.8619	70.85465	120.5531	50.15697
NPHP3	13.32063	16.49203	4.018438	11.09668
NPHP3-AC	2.497619	1.832448	0	1.331601
NPHP3-AS	0	0	0	0
NPHP4	143.1968	84.2926	16.07375	102.5333
NPHS1	0.83254	0.610816	16.07375	0.443867
NPHS2	0	0	4.018438	0

NPIP	131.5413	69.63302	0	88.7734
NPIPL3	1.665079	1.221632	0	14.20374
NPL	79.09126	59.85996	719.3004	64.36072
NPLOC4	1664.247	951.6513	225.0325	914.3661
NPM1	1048.167	910.1158	84.3872	406.1383
NPM2	2.497619	2.443264	8.036876	1.775468
NPM3	221.4555	238.2182	261.1985	118.5125
NPNT	758.4436	928.4402	20.09219	854.8879
NPPA	5.827777	17.71366	0	8.87734
NPPA-AS1	4.162698	11.6055	4.018438	8.433473
NPPB	0	0	0	0.443867
NPPC	0	1.221632	12.05531	0.887734
NPR1	6.660317	15.88121	510.3416	26.63202
NPR2	215.6278	130.1038	614.821	201.5156
NPR3	4.162698	5.497344	60.27657	26.63202
NPRL2	287.2262	157.5905	357.641	147.8077
NPRL3	218.9579	167.3636	241.1063	212.1684
NPS	0	0	4.018438	0
NPSR1	57.44523	0	4.018438	0.443867
NPTN	139.0341	334.7271	1422.527	519.7683
NPTX1	0	0.610816	24.11063	0
NPTX2	0.83254	1.832448	44.20282	6.658005
NPTXR	0.83254	3.05408	32.1475	7.545739
NPVF	0	0	0	0
NPW	9.990475	3.05408	4.018438	4.882537
NPY	5.827777	0	20.09219	0.443867
NPY1R	1.665079	515.5287	4.018438	336.0073
NPY2R	0	0	4.018438	0
NPY5R	0	0	0	0.443867
NPY6R	0	0	0	0
NQO1	3205.277	3864.633	96.44251	1090.137
NQO2	152.3547	163.6987	40.18438	114.9616
NR0B1	0	0	8.036876	0
NR0B2	44.95714	94.67647	0	27.96362
NR1D1	217.2928	73.29791	892.0932	144.2568
NR1D2	50.78491	53.7518	68.31345	58.14658
NR1H2	934.1094	753.1361	1398.416	497.5749
NR1H3	254.7571	117.2767	1868.574	97.65074
NR1H4	29.13889	199.7368	8.036876	141.1497
NR1I2	524.4999	21.37856	0	11.09668
NR1I3	0	0.610816	0	0.443867
NR2C1	103.2349	103.2279	44.20282	59.92205
NR2C2	138.2016	91.62239	80.36876	177.5468
NR2C2AP	247.2643	136.212	212.9772	90.105
NR2E1	0.83254	0.610816	28.12907	0.887734
NR2E3	0	2.443264	4.018438	4.882537
NR2F1	0	59.85996	140.6453	89.21727



NR2F2	193.1492	641.9676	337.5488	767.0022
NR2F6	1315.413	781.2336	843.872	489.5853
NR3C1	45.78968	86.73587	381.7516	107.4158
NR3C2	25.80873	80.01689	64.29501	43.49897
NR4A1	330.5182	37.25977	152.7006	70.13099
NR4A2	21.64603	17.10285	56.25813	30.18296
NR4A3	2.497619	0.610816	24.11063	3.994803
NR5A1	0	1.832448	16.07375	0.443867
NR5A2	13.32063	43.36793	8.036876	27.07589
NR6A1	1.665079	3.664896	36.16594	2.663202
NRADDP	47.45476	7.329791	16.07375	6.214138
NRAP	3.330158	0.610816	357.641	2.663202
NRARP	343.0063	51.91936	136.6269	65.24845
NRAS	298.8817	196.0719	474.1757	209.9491
NRBF2	33.30158	56.80588	60.27657	66.13619
NRBP1	1018.196	666.4002	2901.312	629.4034
NRBP2	553.6388	554.0101	52.23969	913.4783
NRCAM	4.162698	62.91404	32.1475	86.1102
NRD1	842.5301	775.7363	2242.288	738.1509
NREP	18.31587	48.86528	120.5531	45.7183
NRF1	119.0532	64.74649	184.8482	70.57486
NRG1	9.990475	25.65427	108.4978	18.19855
NRG2	15.81825	7.329791	68.31345	29.73909
NRG3	23.31111	0	20.09219	0
NRG4	10.82301	3.664896	0	6.658005
NRGN	109.0627	12.21632	64.29501	26.18815
NRIP1	46.62222	89.78995	60.27657	108.3036
NRIP2	2.497619	15.2704	4.018438	17.75468
NRIP3	0	0	8.036876	1.775468
NRK	0	3.05408	4.018438	0.443867
NRL	23.31111	10.38387	0	8.433473
NRM	0	0	0	0.443867
NRN1	2.497619	1.221632	176.8113	3.107069
NRN1L	18.31587	5.497344	4.018438	5.326404
NRON	0	0	12.05531	0
NRP1	74.92856	288.3051	707.2451	560.604
NRP2	114.0579	98.34137	671.0792	130.9408
NRSN1	0	0	8.036876	0
NRSN2	117.3881	213.1748	0	200.184
NRTN	29.97142	27.48672	16.07375	20.41788
NRXN1	0.83254	0	88.40564	0
NRXN2	1.665079	2.443264	72.33188	2.663202
NRXN3	0	0	68.31345	0.443867
NS3BP	18.31587	17.71366	4.018438	16.86695
NSA2	213.1301	321.2892	433.9913	167.7817
NSD1	248.9293	186.9097	385.7701	303.1612
NSDHL	209.8	679.8382	24.11063	232.5863

NSF	75.7611	296.8566	84.3872	220.158
NSFL1C	1032.349	784.2877	2137.809	604.5469
NSFP1	0	0	0	0
NSL1	66.60317	161.8662	0	77.23286
NSMAF	191.4841	108.1144	486.231	105.1965
NSMCE1	452.9015	800.1689	486.231	412.3525
NSMCE2	187.3214	173.4717	136.6269	110.5229
NSMCE4A	313.0349	234.5533	1044.794	132.2724
NSRP1	148.192	215.0072	160.7375	192.6383
NSUN2	438.7484	517.9719	329.5119	468.2797
NSUN3	69.93332	28.70835	0	23.96882
NSUN4	143.1968	171.0285	64.29501	121.1757
NSUN5	165.6754	252.8778	32.1475	187.3119
NSUN5P1	270.5754	176.5258	8.036876	155.3535
NSUN5P2	314.7	221.1154	8.036876	160.6799
NSUN6	21.64603	51.91936	0	54.15178
NSUN7	65.77063	69.0222	0	112.7422
NT5C	1831.587	1107.409	1418.509	496.2433
NT5C1A	0	0	4.018438	0
NT5C1B	0	0	0	0
NT5C1B-RI	0	0	0	0
NT5C2	316.365	248.6021	341.5672	291.6206
NT5C3	109.0627	207.0666	76.35032	106.5281
NT5C3L	74.09602	427.5712	112.5163	314.7017
NT5DC1	60.77539	115.4442	16.07375	76.34513
NT5DC2	417.9349	403.1385	586.692	587.6799
NT5DC3	96.57459	63.52486	8.036876	60.36591
NT5E	55.78015	420.2414	8.036876	170.0011
NT5M	9.990475	6.10816	92.42408	10.65281
NTAN1	81.58888	111.7793	622.8579	121.1757
NTF3	0	0	8.036876	1.331601
NTF4	4.162698	7.329791	12.05531	22.19335
NTHL1	332.1833	312.127	72.33188	103.421
NTM	0	0	4.018438	0.443867
NTN1	5.827777	5.497344	76.35032	13.75988
NTN3	0.83254	1.221632	32.1475	1.331601
NTN4	54.94761	89.78995	56.25813	183.3171
NTN5	8.325396	14.04877	16.07375	29.73909
NTNG1	0	7.940607	8.036876	13.75988
NTNG2	0	2.443264	68.31345	11.09668
NTPCR	236.4412	293.8025	140.6453	217.4948
NTRK1	0	0	8.036876	0.443867
NTRK2	2.497619	3.05408	397.8254	14.64761
NTRK3	0	0.610816	64.29501	0
NTS	0	0	4.018438	0.887734
NTSR1	1.665079	1.221632	8.036876	6.214138
NTSR2	0	0	0	0

NUAK1	42.45952	15.88121	60.27657	56.37111
NUAK2	23.31111	20.15693	44.20282	49.71311
NUB1	497.0261	492.9285	196.9035	293.3961
NUBP1	132.3738	83.68179	152.7006	83.00313
NUBP2	645.2182	488.6528	188.8666	428.3317
NUBPL	58.27777	46.42201	60.27657	33.73389
NUCB1	1322.073	2049.898	1113.107	1470.531
NUCB2	151.5222	226.0019	393.8069	217.4948
NUCKS1	870.0039	991.9651	502.3048	614.7558
NUDC	1653.424	848.4234	1125.163	636.5053
NUDCD1	60.77539	117.2767	40.18438	75.90126
NUDCD2	66.60317	217.4505	208.9588	124.7266
NUDCD3	727.6396	904.0076	257.18	860.6581
NUDT1	472.8825	265.0941	36.16594	166.4501
NUDT10	0	0	0	0.443867
NUDT11	0	0	0	0.887734
NUDT12	16.65079	100.1738	16.07375	89.66114
NUDT13	59.11031	76.35199	24.11063	66.13619
NUDT14	274.7381	274.2564	108.4978	171.3327
NUDT15	133.2063	188.1313	12.05531	100.7578
NUDT16	1302.924	285.2511	64.29501	222.8212
NUDT16L1	322.1928	227.2235	212.9772	198.4086
NUDT16P1	162.3452	47.03283	32.1475	33.29003
NUDT17	10.82301	15.88121	4.018438	19.08628
NUDT18	59.94285	155.1473	180.8297	112.7422
NUDT19	19.14841	134.3795	36.16594	70.13099
NUDT2	154.0198	550.956	333.5304	178.4345
NUDT21	237.2738	344.5002	751.4479	274.7537
NUDT22	639.3904	491.096	184.8482	415.0157
NUDT3	9.990475	38.48141	120.5531	33.29003
NUDT4	16.65079	8.551423	0	8.433473
NUDT4P1	0	0	0	0
NUDT5	256.4222	352.4408	4.018438	221.0458
NUDT6	4.162698	12.21632	20.09219	7.989606
NUDT7	15.81825	12.21632	28.12907	7.545739
NUDT8	336.346	137.4336	80.36876	92.76821
NUDT9	107.3976	354.8841	168.7744	175.3275
NUDT9P1	0	0.610816	0	1.331601
NUF2	79.9238	105.6712	0	57.70271
NUFIP1	17.48333	32.98406	56.25813	20.41788
NUFIP2	236.4412	334.7271	474.1757	479.3764
NUMA1	1375.355	1428.088	425.9544	1747.504
NUMB	224.7857	494.7609	241.1063	544.6248
NUMBL	82.42142	160.6446	570.6182	147.3639
NUP107	225.6182	199.126	108.4978	168.6695
NUP133	148.192	235.1641	140.6453	153.1341
NUP153	59.94285	139.8769	216.9957	205.0666

NUP155	45.78968	134.3795	128.59	94.54367
NUP160	64.10555	100.7846	68.31345	116.2932
NUP188	404.6142	161.2554	216.9957	223.2651
NUP205	283.896	361.603	208.9588	282.2994
NUP210	334.6809	178.9691	24.11063	272.9782
NUP210L	6.660317	2.443264	4.018438	1.331601
NUP210P1	0	0.610816	0	0
NUP214	387.9634	201.5693	237.0878	316.0333
NUP35	64.10555	130.7146	44.20282	74.56966
NUP37	188.1539	161.2554	68.31345	67.91165
NUP43	157.35	110.5577	76.35032	94.54367
NUP50	260.5849	235.1641	4.018438	258.3306
NUP54	74.09602	211.3423	160.7375	135.8233
NUP62	497.0261	687.1679	108.4978	503.7891
NUP62CL	19.98095	65.35731	0	33.73389
NUP85	778.4245	644.4108	687.1529	390.603
NUP88	138.2016	186.2989	470.1573	148.2516
NUP93	430.423	277.3104	667.0607	257.4429
NUP98	385.4658	283.4186	180.8297	320.472
NUPL1	54.94761	59.24915	160.7375	98.98235
NUPL2	104.0674	172.8609	12.05531	122.5073
NUPR1	126.546	55.58425	574.6366	132.2724
NUS1	34.13412	40.31385	92.42408	36.84096
NUSAP1	93.24443	201.5693	8.036876	218.8264
NUTF2	537.8206	495.3717	671.0792	287.182
NVL	121.5508	139.266	92.42408	129.6092
NWD1	6.660317	7.329791	16.07375	18.64241
NXF1	688.5102	684.7247	1527.006	889.0656
NXF2	0	0	0	0
NXF2B	0	0	0	0
NXF3	9.990475	0	0	9.765074
NXF4	0	0	0	0.443867
NXF5	3.330158	0.610816	80.36876	4.882537
NXN	28.30635	212.564	381.7516	199.7402
NXNL1	0	0	8.036876	0.887734
NXNL2	16.65079	1.832448	20.09219	5.770271
NXPH1	1.665079	0	8.036876	0
NXPH2	0	0	0	0
NXPH3	0	1.221632	12.05531	0
NXPH4	20.81349	18.32448	16.07375	1.775468
NXT1	194.8143	191.7962	253.1616	136.711
NXT2	9.157935	21.37856	12.05531	35.50936
NYAP1	2.497619	9.773055	40.18438	23.96882
NYAP2	0	0	8.036876	1.775468
NYNRIN	230.6135	423.2955	100.461	490.4731
NYX	0	0	8.036876	0
O3FAR1	6.660317	1.221632	4.018438	4.43867

OAF	486.2031	148.4283	506.3232	137.1549
OAS1	536.1555	329.2298	76.35032	273.4221
OAS2	353.8293	122.1632	12.05531	129.1653
OAS3	201.4746	118.4983	48.22126	157.1289
OASL	329.6857	99.563	24.11063	125.6144
OAT	149.8571	313.3486	839.8536	177.1029
OAZ1	9237.859	3034.534	13172.44	2443.932
OAZ2	268.0777	398.252	2097.625	464.2849
OAZ3	8.325396	6.718975	0	19.08628
OBFC1	332.1833	244.3264	36.16594	151.3587
OBFC2A	69.93332	193.0178	24.11063	244.5707
OBFC2B	280.5658	183.8556	353.6225	140.7058
OBP2A	0	0	0	0.887734
OBP2B	0.83254	0	0	0
OBSCN	229.7809	47.64364	124.5716	106.0842
OBSL1	59.94285	223.5586	285.3091	622.7454
OC90	0	0	0	0
OCA2	0	0.610816	0	0
OCEL1	200.642	109.9469	289.3275	81.67153
OCIAD1	453.7341	1040.22	622.8579	750.5791
OCIAD2	1880.707	2265.516	56.25813	1286.327
OCLM	0	0.610816	0	0.887734
OCLN	21.64603	82.46015	16.07375	101.2017
OCM	0	0.610816	0	0.443867
OCM2	0	0	0	0
OCRL	164.0103	251.0454	48.22126	242.3514
ODAM	5.827777	6.10816	0	10.65281
ODC1	569.4571	596.7672	1213.568	300.498
ODF1	0	1.221632	4.018438	0
ODF2	477.8777	192.407	233.0694	238.8005
ODF2L	57.44523	84.2926	60.27657	109.1913
ODF3	1.665079	0	4.018438	0
ODF3B	256.4222	534.464	32.1475	347.9917
ODF3L1	0.83254	0	0	0.887734
ODF3L2	0.83254	0	4.018438	0.443867
ODF4	0	0	4.018438	0
ODZ1	0	0	36.16594	1.331601
ODZ2	0	1.221632	64.29501	0
ODZ3	4.995237	12.21632	84.3872	19.97402
ODZ4	6.660317	1.221632	100.461	0.443867
OFD1	220.623	127.6605	8.036876	124.2828
OGDH	429.5904	552.1776	413.8991	517.9928
OGDHL	1.665079	12.21632	80.36876	21.74948
OGFOD1	172.3357	174.6934	32.1475	151.8025
OGFOD2	401.2841	130.1038	285.3091	139.3742
OGFR	886.6547	436.1226	261.1985	438.5406
OGFRL1	16.65079	42.1463	64.29501	45.27444

OGG1	87.41666	85.51423	148.6822	56.37111
OGN	0	6.718975	425.9544	23.08108
OGT	930.7792	1335.854	1535.043	1333.377
OIP5	28.30635	79.40607	0	48.82537
OIP5-AS1	24.14365	86.12505	0	81.67153
OIT3	2.497619	1.832448	20.09219	0.443867
OLA1	236.4412	365.2679	429.9729	205.0666
OLAH	0	0.610816	0	6.658005
OLFM1	47.45476	8.551423	265.2169	27.96362
OLFM2	9.157935	10.38387	44.20282	14.64761
OLFM3	0	0	4.018438	0.443867
OLFM4	538.6531	5.497344	12.05531	189.5312
OLFML1	6.660317	9.162239	176.8113	20.86175
OLFML2A	4.162698	4.275712	44.20282	7.101872
OLFML2B	74.09602	127.0497	590.7104	113.63
OLFML3	89.91427	193.6287	466.1388	375.0676
OLIG1	0	0	4.018438	0
OLIG2	0	0	8.036876	0
OLIG3	0	0	0	0
OLR1	0	0	0	0
OMA1	59.94285	123.9956	64.29501	80.7838
OMD	0	2.443264	8.036876	2.219335
OMG	2.497619	1.832448	4.018438	2.219335
OMP	4.162698	2.443264	8.036876	2.219335
ONECUT1	0	0.610816	84.3872	0
ONECUT2	545.3134	613.87	36.16594	883.7392
ONECUT3	3.330158	12.82714	20.09219	9.765074
OOEP	4.995237	2.443264	0	6.658005
OPA1	232.2785	233.9425	192.885	164.2308
OPA3	217.2928	199.7368	24.11063	129.6092
OPALIN	0.83254	0	0	1.331601
OPCML	0	0	80.36876	0
OPHN1	4.162698	52.53017	112.5163	35.06549
OPLAH	686.0126	601.6537	176.8113	522.8753
OPN1LW	0	0	0	0
OPN1MW	0	0	0	0
OPN1MW2	0	0	0	0
OPN1SW	0	0	12.05531	0
OPN3	7.492856	98.34137	16.07375	95.43141
OPN4	0	0	8.036876	0
OPN5	0	0	0	0
OPRD1	0	0	12.05531	0
OPRK1	0	0	4.018438	0.887734
OPRL1	0.83254	12.21632	8.036876	10.65281
OPRM1	0	0.610816	0	0
OPTC	0	0.610816	0	0
OPTN	698.5007	649.9082	16.07375	394.1539

OR10A2	0	0	0	0
OR10A3	0	0	8.036876	0
OR10A4	0	0	0	0
OR10A5	0	0	0	0
OR10A6	0	0	4.018438	0
OR10A7	0	0	0	0
OR10AD1	0	0	4.018438	1.331601
OR10AG1	0	0	0	0
OR10C1	0	0	0	0
OR10G2	0	0	16.07375	0
OR10G3	0	0	20.09219	0
OR10G4	0	0	0	0
OR10G7	0	0.610816	0	0
OR10G8	0	0	0	0
OR10G9	0	0	0	0
OR10H1	0	1.221632	4.018438	0.443867
OR10H2	0	0	0	0
OR10H3	0	0	0	0
OR10H4	0	0	0	0
OR10H5	0	0	0	0
OR10J1	0	0	0	0
OR10J3	0	0	8.036876	0
OR10J5	0	0	0	0
OR10K1	0	0	4.018438	0
OR10K2	0	0	0	0
OR10P1	0	0	12.05531	0
OR10Q1	0	0	0	0
OR10R2	0	1.221632	0	0
OR10S1	0	0	4.018438	0
OR10T2	0	0	0	0
OR10V1	0	0	4.018438	0
OR10V2P	0	0	0	0.443867
OR10W1	0	0	4.018438	0
OR10X1	0	0	4.018438	0
OR10Z1	0	0	12.05531	0
OR11A1	0	0	0	0
OR11G2	0	0.610816	4.018438	0
OR11H1	0	0	0	0
OR11H12	0	0	0	0
OR11H2	0.83254	0.610816	0	0
OR11H4	0.83254	0	0	0.443867
OR11H6	0	0	8.036876	0.443867
OR11L1	0	0	0	0
OR12D2	0	0	0	0
OR12D3	0	0	0	0
OR13A1	0	0	0	0.887734
OR13C2	0	0	0	0

OR13C3	0	0	0	0
OR13C4	0	0	4.018438	0
OR13C5	0	0	0	0
OR13C8	0	0	0	0
OR13C9	0	0	8.036876	0
OR13D1	0	0	4.018438	0
OR13F1	0	0	0	0
OR13G1	0	0.610816	4.018438	0
OR13H1	0	0	0	0
OR13J1	0.83254	0	4.018438	0
OR14A16	0	0	0	0
OR14C36	0	0	0	0
OR14I1	0	0	0	0
OR14J1	0	0	0	0
OR1A1	0	0	8.036876	0
OR1A2	0	0	0	0
OR1B1	0	0	4.018438	0
OR1C1	0	0	0	0
OR1D2	0	0	4.018438	0
OR1D4	0	0	0	0
OR1D5	0	0	0	0
OR1E1	0	0	8.036876	0
OR1E2	0	0	0	0.443867
OR1F1	0	0	0	0
OR1F2P	0	0	0	0
OR1G1	0	0	0	0
OR1I1	0	0	0	0
OR1J1	0.83254	0.610816	12.05531	0
OR1J2	0	0.610816	0	0
OR1J4	0	0	4.018438	0.443867
OR1K1	0	0	0	0
OR1L1	0	0	0	0
OR1L3	0	0	0	0
OR1L4	0	0	4.018438	0
OR1L6	0	0	0	0
OR1L8	0	0	0	0
OR1M1	0	0	4.018438	0
OR1N1	0	0	8.036876	0.443867
OR1N2	0	0	0	0
OR1Q1	0	0.610816	0	1.775468
OR1S1	0	0	0	0
OR1S2	0	0	0	0
OR2A1	0	0	0	0
OR2A12	0.83254	0	0	0
OR2A14	0	0	0	0
OR2A2	0	0	4.018438	0
OR2A20P	0	0	0	0



OR2A25	0	0	4.018438	0
OR2A4	0	0	0	0
OR2A42	0	0	0	0
OR2A5	0	0	0	0
OR2A7	0	1.221632	0	2.219335
OR2A9P	0	0	0	0
OR2AE1	0	0	0	0
OR2AG1	0	0	0	0
OR2AG2	0	0	0	0
OR2AK2	0	0	0	0
OR2AT4	0	0	0	0
OR2B11	0	0	16.07375	0
OR2B2	0.83254	0	20.09219	0.443867
OR2B3	0	0	0	0
OR2B6	1.665079	1.221632	0	8.433473
OR2C1	0	0	0	0
OR2C3	0.83254	0	0	0
OR2D2	0	0	0	0
OR2D3	0	0.610816	4.018438	0
OR2F1	0	0	4.018438	0.443867
OR2F2	0	0	4.018438	0
OR2G2	0	0	0	0
OR2G3	0	0	0	0
OR2G6	0	0	0	0
OR2H1	0	0	0	0
OR2H2	0	0	0	0
OR2J2	0	0	0	0
OR2J3	0	0	0	0
OR2K2	0	0	0	0
OR2L13	0	0	4.018438	0
OR2L1P	0	0	0	0
OR2L2	0	0	0	0
OR2L3	0	0	0	0
OR2L8	0	0	0	0
OR2M1P	0	0	0	0
OR2M2	0	0	0	0
OR2M3	0	0	0	0
OR2M4	0	0	0	0
OR2M5	0	0	0	0
OR2M7	0	1.221632	0	0
OR2S2	0	0	4.018438	0
OR2T1	0	0	0	0
OR2T10	0	0	0	0
OR2T11	0	0	0	0
OR2T12	0	0	0	0
OR2T2	0	0	0	0
OR2T27	0	0	8.036876	0

OR2T29	0	0	0	0
OR2T3	0	0	0	0
OR2T33	0	0	0	0
OR2T34	0	0	0	0
OR2T35	0	0	0	0
OR2T4	0	0	4.018438	0
OR2T5	0	0	0	0
OR2T6	0	0	0	0
OR2T8	0	0	0	0
OR2V2	0	0	0	0
OR2W1	0	0	0	0
OR2W3	0	0	16.07375	0
OR2W5	0	0	0	0
OR2Y1	0	0.610816	12.05531	0
OR2Z1	0	0	8.036876	0
OR3A1	0	0	12.05531	0
OR3A2	0	0	0	0
OR3A3	0	0	0	0
OR3A4P	0	0	0	0
OR4A15	0	0	0	0
OR4A16	0	0	8.036876	0
OR4A47	0	0	0	0
OR4A5	0	0	0	0
OR4B1	0	0	0	0
OR4C11	0	0	0	0
OR4C12	0	0	8.036876	0
OR4C13	0	0	0	0
OR4C15	0	0	0	0
OR4C16	0	0	4.018438	0
OR4C3	0	0	12.05531	0
OR4C45	0	0	0	0
OR4C46	0	0	0	0
OR4C6	0	0	0	0
OR4D1	0	0	8.036876	0
OR4D10	0	0	16.07375	0
OR4D11	0	0.610816	8.036876	0
OR4D2	0	0	4.018438	0
OR4D5	0	0	0	0
OR4D6	0	0	0	0
OR4D9	0	0	0	0
OR4E2	0	0	4.018438	0
OR4F15	0	0	0	0
OR4F16	0	0	0	0
OR4F17	0	0	0	0
OR4F21	0	0	0	0
OR4F29	0	0	0	0
OR4F3	0	0	0	0

OR4F4	0	0	0	0
OR4F5	0	0	0	0
OR4F6	0	0	0	0
OR4K1	0	0	0	0
OR4K13	0	0	0	0
OR4K14	0	0	0	0
OR4K15	0	0	0	0
OR4K17	0	0	0	0
OR4K2	0	0	0	0
OR4K5	0	0	0	0
OR4L1	0	0	0	0
OR4M1	0	0	0	0
OR4M2	0	0	0	0
OR4N2	0.83254	0	0	0
OR4N3P	0	0	0	0
OR4N4	0	0	0	0
OR4N5	0	0	0	0
OR4P4	0	0	8.036876	0
OR4Q3	0	0	0	0
OR4S1	0	0	0	0
OR4S2	0	0	0	0
OR4X1	0	0	4.018438	0
OR4X2	0	0	4.018438	0
OR51A2	0	0	0	0
OR51A4	0	0	0	0
OR51A7	0	0	0	0
OR51B2	0	0	0	0
OR51B4	0	0	12.05531	0
OR51B5	0	0	0	0
OR51B6	0	0	0	0
OR51D1	0	0	0	0
OR51E1	0	0	4.018438	0.443867
OR51E2	0	0	12.05531	0.887734
OR51F1	0	0	0	0
OR51F2	0	0	0	0
OR51G1	0	0	0	0
OR51G2	0	0	0	0
OR51I1	0	0.610816	0	0
OR51I2	0	0	4.018438	0
OR51L1	0	0	4.018438	0
OR51M1	0	0	0	0
OR51Q1	0	0	4.018438	0
OR51S1	0	0	4.018438	0
OR51T1	0	0	0	0
OR51V1	0	0	0	0
OR52A1	0	0	4.018438	0
OR52A5	0	0	0	0

OR52B2	0	0	4.018438	0
OR52B4	0	0	0	0
OR52B6	0	0	0	0
OR52D1	0	0	8.036876	0
OR52E2	0	0	0	0
OR52E4	0	0	0	0
OR52E6	0	0	0	0
OR52E8	0	0	0	0
OR52H1	0	0	0	0
OR52I1	0	0	0	0
OR52I2	0	0	4.018438	0
OR52J3	0	0	4.018438	0
OR52K1	0	0	0	0
OR52K2	0.83254	0	0	0
OR52L1	0	0	0	0
OR52M1	0	0	4.018438	0
OR52N1	0	0.610816	4.018438	0
OR52N2	0	0	0	0
OR52N4	0	0	4.018438	0
OR52N5	0	0	0	0
OR52R1	0	0	16.07375	0
OR52W1	0	0	0	0
OR56A1	0	0	0	0
OR56A3	0	0	8.036876	0
OR56A4	0	0.610816	0	0
OR56A5	0	0	16.07375	0
OR56B1	0	0	0	0
OR56B4	0	0	0	0
OR5A1	0	0	4.018438	0
OR5A2	0	0	0	0
OR5AC2	0	0	4.018438	0
OR5AK2	0	0	0	0
OR5AK4P	0	0	0	0
OR5AN1	0	0	0	0
OR5AP2	0	0	4.018438	0
OR5AR1	0	0	4.018438	0
OR5AS1	0	0	0	0
OR5AU1	0	0.610816	0	0
OR5B12	0	0	0	0.443867
OR5B17	0	0	0	0
OR5B2	0	0	4.018438	0.887734
OR5B21	0	0	0	0
OR5B3	0	0	0	0
OR5C1	0	0	8.036876	0
OR5D13	0	0	0	0
OR5D14	0	0	4.018438	0
OR5D16	0	0	0	0

OR5D18	0	0	0	0
OR5E1P	0	0	0	0
OR5F1	0	0	0	0
OR5H1	0	0	0	0
OR5H14	0	0	0	0
OR5H15	0	0	0	0
OR5H2	0	0	0	0
OR5H6	0	0	0	0
OR5I1	0	0	0	0
OR5J2	0	0	0	0
OR5K1	0	0	0	0
OR5K2	0	0	0	0
OR5K3	0	0	0	0
OR5K4	0	0	12.05531	0
OR5L1	0	0	0	0
OR5L2	0	0	8.036876	0
OR5M1	0	0	0	0
OR5M10	0	0	0	0
OR5M11	0	0	0	0
OR5M3	0	0	0	0
OR5M8	0	0	0	0
OR5M9	0	0	0	0
OR5P2	0	0	4.018438	0
OR5P3	0	0	20.09219	0
OR5R1	0	0	0	0
OR5T1	0	0	0	0
OR5T2	0	0	0	0
OR5T3	0	0	0	0
OR5V1	0.83254	0	0	0
OR5W2	0	0	4.018438	0
OR6A2	0	0	0	0
OR6B1	0	0	12.05531	0
OR6B2	0	0	0	0
OR6B3	0	0	0	0.443867
OR6C1	0	0	0	0
OR6C2	0	0	0	0
OR6C3	0	0	4.018438	0
OR6C4	0	0	0	0
OR6C6	0	0	0	0
OR6C65	0	0	0	0
OR6C68	0	0	0	0
OR6C70	0	0	0	0.887734
OR6C74	0	0	8.036876	0
OR6C75	0	0	0	0
OR6C76	0	0	0	0
OR6F1	0	0	8.036876	0
OR6K2	0	0	0	0

OR6K3	0	0	0	0
OR6K6	0	0	0	0
OR6M1	0	0	0	0
OR6N1	0	0	0	0
OR6N2	0	0	0	0
OR6P1	0	0	4.018438	0
OR6Q1	0	0	0	0
OR6S1	0	0	0	0
OR6T1	0	0	0	0
OR6V1	0	0	0	0
OR6W1P	0	0	0	0
OR6X1	0	0	0	0
OR6Y1	0	0	0	0
OR7A10	0	0	0	0
OR7A17	0	0	0	0
OR7A5	0	0	0	0
OR7C1	0	0	0	0
OR7C2	0	0	0	0
OR7D2	0	0.610816	0	0
OR7D4	0.83254	0	0	0
OR7E12P	0	0	0	0
OR7E14P	69.10078	44.58956	0	31.51456
OR7E156P	0	0	0	0
OR7E24	0	0	0	0
OR7E2P	0	0.610816	0	0
OR7E37P	0	0	0	0
OR7E5P	0	0	0	0
OR7E91P	3.330158	7.329791	4.018438	1.331601
OR7G1	0	0	0	0
OR7G2	0	0	12.05531	0
OR7G3	0	0	0	0
OR8A1	0	0	4.018438	0
OR8B12	0	0	12.05531	0
OR8B2	0	0	0	0
OR8B3	0	0	0	0
OR8B4	0	0	8.036876	0
OR8B8	0	0	8.036876	0
OR8D1	0	0	4.018438	0
OR8D2	0	0	0	0
OR8D4	0	0	0	0
OR8G1	0	0	0	0
OR8G2	0	0	0	0
OR8G5	0	0	8.036876	0
OR8H1	0	0	0	0
OR8H2	0	0	0	0
OR8H3	0	0	0	0
OR8I2	0	0	0	0

OR8J1	0	0	0	0
OR8J3	1.665079	0	0	0
OR8K1	0	0	0	0
OR8K3	0	0	0	0
OR8K5	0	0	0	0
OR8S1	0	0.610816	0	0
OR8U1	0	0	0	0
OR8U8	0	0	0	0
OR9A2	0	0	0	0
OR9A4	0	0	0	0
OR9G1	0	0	0	0
OR9G4	0	0	0	0.443867
OR9G9	0	0	0	0
OR9I1	0	0	8.036876	0
OR9K2	0	0	0	0
OR9Q1	0	0	8.036876	0
OR9Q2	0	0	0	0
ORAI1	333.8484	106.8928	192.885	90.99274
ORAI2	154.0198	371.3761	20.09219	444.3109
ORAI3	149.8571	114.8334	233.0694	140.262
ORAOV1	224.7857	103.2279	8.036876	126.5021
ORC1	69.93332	49.47609	4.018438	44.83057
ORC2	57.44523	168.5852	72.33188	136.711
ORC3	75.7611	66.57894	184.8482	74.56966
ORC4	78.25872	153.3148	100.461	112.7422
ORC5	124.8809	262.6509	249.1432	166.0063
ORC6	72.43094	77.57363	124.5716	63.91685
ORM1	1.665079	0	0	31.95843
ORM2	11.65555	14.04877	0	44.83057
ORMDL1	178.996	223.5586	60.27657	226.3722
ORMDL2	425.4277	603.4862	128.59	343.5531
ORMDL3	699.3332	670.6759	180.8297	497.5749
OS9	1955.635	1585.067	534.4523	1548.652
OSBP	254.7571	403.1385	225.0325	450.525
OSBP2	32.46904	34.81651	48.22126	47.93764
OSBPL10	65.77063	103.2279	56.25813	52.37631
OSBPL11	45.78968	28.09753	76.35032	35.95323
OSBPL1A	49.95237	36.64896	184.8482	30.62682
OSBPL2	890.8173	543.6262	72.33188	553.946
OSBPL3	362.9873	400.6953	40.18438	684.8868
OSBPL5	285.5611	201.5693	60.27657	282.7433
OSBPL6	0	1.221632	36.16594	4.43867
OSBPL7	867.5062	253.4886	112.5163	297.3909
OSBPL8	38.29682	28.70835	172.7928	35.06549
OSBPL9	175.6659	357.9381	1478.785	532.6404
OSCAR	0	9.773055	0	5.770271
OSCP1	95.74205	90.40076	24.11063	72.35032

OSGEP	197.3119	343.2786	349.6041	232.5863
OSGEPL1	19.98095	51.30854	36.16594	46.60604
OSGIN1	187.3214	73.29791	112.5163	131.3846
OSGIN2	42.45952	180.1907	60.27657	162.0115
OSM	1.665079	3.05408	12.05531	3.107069
OSMR	181.4936	270.5915	8.036876	444.7548
OSR1	5.827777	16.49203	313.4382	23.08108
OSR2	62.44047	20.15693	490.2494	19.97402
OST4	699.3332	1277.216	3427.728	848.2299
OSTBETA	3.330158	1.221632	0	4.43867
OSTC	199.8095	486.2095	96.44251	395.0416
OSTCP1	1.665079	8.551423	44.20282	4.43867
OSTF1	244.7666	170.4177	1217.587	131.3846
OSTM1	34.13412	24.43264	24.11063	28.40749
OSTN	0	0	0	0
OSTalpha	7.492856	3.664896	4.018438	3.107069
OTC	0	0	0	0
OTOA	0	0	4.018438	0
OTOF	0.83254	0	60.27657	3.107069
OTOGL	0	0	12.05531	0.443867
OTOL1	0	0	0	0
OTOP1	0	0.610816	8.036876	0
OTOP2	0	2.443264	0	0
OTOP3	0	0	0	0
OTOR	0	0	0	0
OTOS	2.497619	0	8.036876	0
OTP	1.665079	0	44.20282	0
OTUB1	1586.82	1192.313	1249.734	874.418
OTUB2	128.2111	22.60019	8.036876	40.83577
OTUD1	34.13412	12.21632	104.4794	16.42308
OTUD3	66.60317	40.31385	40.18438	75.90126
OTUD4	88.2492	69.63302	92.42408	113.63
OTUD5	722.6444	365.2679	775.5585	454.9637
OTUD6A	0	0	0	0
OTUD6B	23.31111	34.20569	24.11063	34.17776
OTUD7A	0	3.05408	20.09219	2.663202
OTUD7B	95.74205	113.001	164.756	124.2828
OTX1	34.13412	21.98937	4.018438	30.18296
OTX2	0	0	40.18438	0
OTX2OS1	0	0	0	0
OVCA2	11.65555	23.21101	24.11063	22.19335
OVCH1	0	0	0	0
OVCH2	0	0	0	1.331601
OVGP1	109.8952	25.65427	8.036876	34.62163
OVOL1	157.35	42.1463	40.18438	91.43661
OVOL2	132.3738	161.8662	32.1475	79.89606
OXA1L	932.4443	720.7628	204.9403	592.5625



OXCT1	34.96666	87.34668	257.18	74.56966
OXCT2	0	0	0	0.443867
OXER1	1.665079	4.886528	0	7.101872
OXGR1	0	0	4.018438	0
OXNAD1	77.42618	45.20038	32.1475	33.29003
OXR1	43.29206	80.62771	156.7191	105.1965
OXSM	93.24443	54.36262	16.07375	49.26924
OXSR1	249.7619	138.0444	132.6085	168.2256
OXT	0	0	4.018438	0.443867
OXTR	3.330158	32.98406	4.018438	15.97921
P2RX1	3.330158	0.610816	16.07375	0
P2RX2	0	0	8.036876	0
P2RX3	0	0	0	0.887734
P2RX4	157.35	285.8619	707.2451	347.9917
P2RX5	0.83254	0	0	1.775468
P2RX5-TAX	4.995237	1.832448	0	3.107069
P2RX6	1.665079	1.221632	12.05531	1.331601
P2RX6P	0	0	0	0
P2RX7	0	2.443264	40.18438	6.658005
P2RY1	1.665079	5.497344	12.05531	8.87734
P2RY10	1.665079	0	8.036876	1.331601
P2RY11	9.990475	6.10816	0	0.887734
P2RY12	0	2.443264	0	1.775468
P2RY13	0	0.610816	0	0.443867
P2RY14	6.660317	0.610816	28.12907	1.331601
P2RY2	40.79444	94.67647	12.05531	58.59045
P2RY4	0	0	0	2.219335
P2RY6	7.492856	15.2704	100.461	33.29003
P2RY8	0	0	0	0
P4HA1	122.3833	318.8459	373.7147	417.235
P4HA2	281.3984	231.4992	329.5119	222.3774
P4HA3	5.827777	20.76774	96.44251	31.07069
P4HB	9230.366	10623.31	1944.924	12236.53
P4HTM	667.6967	282.8078	112.5163	234.3618
PA2G4	1307.087	530.7991	755.4664	349.7672
PA2G4P4	2.497619	1.832448	8.036876	2.219335
PAAF1	76.59364	243.7156	0	161.5676
PABPC1	7982.389	3076.069	9238.389	3401.797
PABPC1L	165.6754	235.1641	28.12907	373.736
PABPC1L2/	0	0	0	0
PABPC1L2f	0	0	0	0
PABPC1P2	2.497619	0	16.07375	0.443867
PABPC3	14.15317	17.71366	478.1941	22.19335
PABPC4	728.4721	417.7981	763.5032	466.0604
PABPC4L	0	0	4.018438	0
PABPC5	0	0	4.018438	0
PABPN1	202.3071	95.28729	293.346	119.4002

PABPN1L	0	0	4.018438	0
PACRG	78.25872	2.443264	16.07375	0
PACRGL	68.26825	66.57894	4.018438	67.02392
PACS1	283.896	219.8937	112.5163	240.5759
PACS2	673.5245	565.0048	466.1388	560.1602
PACSIN1	3.330158	1.221632	44.20282	8.87734
PACSIN2	687.6777	1778.696	309.4197	990.2673
PACSIN3	50.78491	233.3317	333.5304	124.2828
PADI1	9.157935	9.773055	28.12907	25.74429
PADI2	1.665079	6.10816	28.12907	10.20894
PADI3	4.162698	9.773055	20.09219	7.989606
PADI4	0	0.610816	8.036876	2.219335
PADI6	0.83254	0.610816	4.018438	0.443867
PAEP	0.83254	14.04877	0	13.31601
PAF1	620.242	712.2114	896.1117	480.708
PAFAH1B1	363.8198	435.5118	1985.108	379.5063
PAFAH1B2	393.7912	508.1989	257.18	490.9169
PAFAH1B3	377.973	341.4461	361.6594	159.7921
PAFAH2	147.3595	197.2936	8.036876	197.077
PAG1	39.12936	67.80057	12.05531	61.69752
PAGE1	0	0	0	0
PAGE2	2.497619	0	0	0
PAGE2B	1.665079	0	0	0
PAGE3	0	0	0	0
PAGE4	0	0	0	0
PAGE5	0	0	0	0
PAH	1.665079	0	0	0
PAICS	462.0595	868.5803	144.6638	522.8753
PAIP1	58.27777	216.2288	237.0878	150.4709
PAIP2	289.7238	328.619	2394.989	307.5998
PAIP2B	4.995237	1.832448	12.05531	6.214138
PAK1	980.7316	1110.463	763.5032	855.3317
PAK1IP1	29.13889	134.3795	48.22126	67.46779
PAK2	379.638	201.5693	108.4978	203.2911
PAK3	4.995237	4.275712	108.4978	6.214138
PAK4	395.4563	461.166	132.6085	271.6466
PAK6	37.46428	84.90342	12.05531	152.2464
PAK7	0	0	4.018438	0
PALB2	41.62698	70.85465	8.036876	71.01872
PALLD	133.2063	115.4442	353.6225	217.9387
PALM	3.330158	2.443264	144.6638	6.214138
PALM2	0.83254	0	12.05531	3.550936
PALM2-AK	0	0	0	0
PALM3	713.4864	230.2776	12.05531	241.0198
PALMD	0.83254	106.282	80.36876	65.69232
PAM	256.4222	232.1101	771.5401	353.3181
PAM16	24.14365	12.21632	0	6.214138

PAMR1	0	2.443264	140.6453	27.51976
PAN2	338.0111	246.7696	225.0325	288.0697
PAN3	136.5365	130.7146	76.35032	171.7765
PAN3-AS1	19.14841	9.773055	0	7.989606
PANK1	34.13412	26.26509	44.20282	12.87214
PANK2	138.2016	204.0125	208.9588	138.0426
PANK3	23.31111	138.6552	36.16594	71.90646
PANK4	202.3071	119.1091	269.2353	107.4158
PANX1	89.08173	240.6615	100.461	194.8576
PANX2	13.32063	3.664896	24.11063	11.09668
PANX3	0	0	24.11063	0
PAOX	96.57459	77.57363	148.6822	60.80978
PAPD4	87.41666	120.3307	968.4436	145.5884
PAPD5	36.63174	26.26509	212.9772	31.95843
PAPD7	387.9634	188.1313	56.25813	223.709
PAPL	0	0.610816	8.036876	0
PAPLN	8.325396	178.3583	20.09219	267.6518
PAPOLA	372.9777	532.6315	1257.771	506.8961
PAPOLB	4.995237	3.664896	168.7744	3.550936
PAPOLG	21.64603	18.93529	116.5347	30.62682
PAPPA	0	1.832448	20.09219	2.663202
PAPPA2	0.83254	1.832448	12.05531	0
PAPSS1	139.8666	390.3114	381.7516	237.025
PAPSS2	92.41189	257.7643	140.6453	281.8556
PAQR3	18.31587	9.773055	4.018438	17.31081
PAQR4	477.0452	398.8628	32.1475	292.9522
PAQR5	25.80873	103.2279	8.036876	86.55407
PAQR6	215.6278	40.92467	8.036876	63.47298
PAQR7	44.1246	196.0719	20.09219	158.4605
PAQR8	232.2785	69.0222	12.05531	30.62682
PAQR9	0	1.221632	40.18438	0.887734
PAR-SN	0	1.221632	0	2.663202
PAR1	0	0	0	0
PAR4	0	0	0	0
PAR5	0	0	0	2.219335
PARD3	228.9484	485.5987	44.20282	287.6258
PARD3B	35.7992	18.93529	40.18438	35.50936
PARD6A	66.60317	99.563	241.1063	49.71311
PARD6B	27.47381	29.31917	4.018438	35.95323
PARD6G	9.990475	3.05408	28.12907	13.31601
PARG	30.80396	86.12505	68.31345	80.7838
PARK2	3.330158	1.221632	40.18438	4.882537
PARK7	1441.959	1695.625	763.5032	959.1966
PARL	1434.466	323.1216	743.411	246.7901
PARM1	183.9912	23.21101	48.22126	180.6539
PARN	185.6563	198.5152	32.1475	188.1996
PARP1	425.4277	721.9845	172.7928	510.4471

PARP10	1665.912	918.0564	52.23969	830.0313
PARP11	10.82301	7.940607	48.22126	22.63722
PARP12	805.8983	415.3548	72.33188	417.235
PARP14	1334.561	453.2254	128.59	603.6591
PARP15	2.497619	5.497344	0	30.62682
PARP16	21.64603	42.75712	40.18438	46.60604
PARP2	118.2206	161.2554	225.0325	161.1237
PARP3	223.9531	133.7687	64.29501	183.7609
PARP4	189.819	453.8363	20.09219	399.0364
PARP6	230.6135	139.266	687.1529	238.8005
PARP8	132.3738	163.6987	369.6963	191.3067
PARP9	770.9316	438.5659	8.036876	470.9429
PARPBP	9.990475	15.88121	0	8.87734
PARS2	37.46428	26.8759	24.11063	35.06549
PART1	0	0	0	2.219335
PARVA	318.0301	161.2554	225.0325	195.3015
PARVB	4.995237	373.8194	32.1475	109.1913
PARVG	1.665079	1.832448	32.1475	7.989606
PASD1	0	0	0	0
PASK	150.6897	106.8928	0	115.8493
PATE1	0	0	0	0
PATE2	0	0	0	0.443867
PATE3	0	0	0	0
PATE4	0	0.610816	0	0
PATL1	229.7809	129.493	60.27657	230.8108
PATL2	9.990475	7.940607	8.036876	35.50936
PATZ1	174.8333	344.5002	237.0878	336.8951
PAWR	39.9619	66.57894	32.1475	47.49377
PAX1	0	0	20.09219	0
PAX2	0	0	28.12907	0.443867
PAX3	0	0.610816	8.036876	0
PAX4	0.83254	0	8.036876	0
PAX5	0	2.443264	216.9957	0.443867
PAX6	8.325396	3.05408	64.29501	1.775468
PAX7	0	0.610816	32.1475	0.443867
PAX8	99.90475	169.196	48.22126	142.0374
PAX9	8.325396	0.610816	16.07375	2.219335
PAXIP1	41.62698	47.64364	28.12907	65.24845
PBK	17.48333	119.7199	0	49.26924
PBLD	114.0579	109.9469	4.018438	161.5676
PBOV1	2.497619	1.221632	0	0.443867
PBRM1	138.2016	103.8387	273.2538	124.7266
PBX1	52.44999	13.43795	200.9219	17.75468
PBX2	0	1.221632	0	0.443867
PBX3	46.62222	32.37325	152.7006	28.40749
PBX4	104.9	17.71366	4.018438	17.75468
PBXIP1	365.4849	549.7344	84.3872	632.9544

PC	174.8333	167.9744	200.9219	138.4865
PCA3	0	0	0	0
PCAT1	4.995237	1.832448	0	2.663202
PCBD1	538.6531	590.0482	4.018438	395.9294
PCBD2	79.09126	70.24383	60.27657	50.15697
PCBP1	1344.551	1481.84	3492.023	1384.865
PCBP1-AS1	16.65079	4.886528	0	9.765074
PCBP2	1098.952	971.1974	3885.83	933.8962
PCBP3	9.157935	1.221632	60.27657	5.326404
PCBP4	747.6205	241.2723	847.8904	206.3982
PCCA	40.79444	47.64364	152.7006	48.3815
PCCB	198.977	281.5862	353.6225	142.9252
PCDH1	942.4348	419.6306	156.7191	343.5531
PCDH10	0.83254	0	28.12907	0.443867
PCDH11X	0	0	0	0
PCDH11Y	0	0	0	0
PCDH12	14.15317	2.443264	8.036876	5.326404
PCDH15	0.83254	0.610816	56.25813	0
PCDH17	0	4.275712	52.23969	4.882537
PCDH18	0.83254	2.443264	80.36876	10.20894
PCDH19	7.492856	26.8759	265.2169	24.41269
PCDH20	0.83254	36.03814	16.07375	38.17256
PCDH7	43.29206	404.3602	124.5716	517.1051
PCDH8	0	0	24.11063	0
PCDH9	1.665079	2.443264	32.1475	4.43867
PCDHA1	0	0	8.036876	0.443867
PCDHA10	0	0.610816	4.018438	2.219335
PCDHA11	3.330158	6.10816	0	5.770271
PCDHA12	2.497619	8.551423	4.018438	10.20894
PCDHA13	0	0	0	0.443867
PCDHA2	0	1.221632	16.07375	3.107069
PCDHA3	0	0	4.018438	0.887734
PCDHA4	0	16.49203	16.07375	17.31081
PCDHA5	0	0.610816	0	0
PCDHA6	0	1.221632	0	0
PCDHA7	0	0.610816	4.018438	3.550936
PCDHA8	0.83254	1.221632	24.11063	0
PCDHA9	0	0	4.018438	0
PCDHAC1	1.665079	1.221632	0	5.326404
PCDHAC2	0	2.443264	4.018438	1.775468
PCDHB1	0	0	0	0
PCDHB10	3.330158	3.05408	4.018438	13.75988
PCDHB11	1.665079	0	4.018438	0.443867
PCDHB12	10.82301	0.610816	20.09219	3.550936
PCDHB13	5.827777	3.664896	28.12907	7.545739
PCDHB14	44.1246	22.60019	0	19.53015
PCDHB15	8.325396	3.664896	8.036876	4.882537

PCDHB16	17.48333	17.71366	0	27.51976
PCDHB17	0	0	8.036876	0.443867
PCDHB18	0	1.832448	12.05531	1.775468
PCDHB19P	5.827777	1.221632	4.018438	3.994803
PCDHB2	1.665079	0	0	0.443867
PCDHB3	0	0.610816	8.036876	1.331601
PCDHB4	4.995237	15.2704	40.18438	16.42308
PCDHB5	19.14841	36.64896	4.018438	36.3971
PCDHB6	0	1.221632	0	1.775468
PCDHB7	0	3.05408	4.018438	7.989606
PCDHB8	7.492856	3.05408	8.036876	2.663202
PCDHB9	14.15317	6.10816	0	16.42308
PCDHGA1	0	1.221632	0	2.219335
PCDHGA1C	1.665079	11.6055	16.07375	10.20894
PCDHGA11	1.665079	0.610816	12.05531	1.331601
PCDHGA12	0	1.221632	0	3.107069
PCDHGA2	0	0	0	1.331601
PCDHGA3	0	0	8.036876	1.331601
PCDHGA4	2.497619	1.221632	8.036876	2.219335
PCDHGA5	1.665079	4.275712	4.018438	1.331601
PCDHGA6	0	1.832448	8.036876	3.107069
PCDHGA7	0	0	16.07375	0.887734
PCDHGA8	0	0.610816	24.11063	3.550936
PCDHGA9	2.497619	0	16.07375	2.663202
PCDHGB1	0.83254	0	0	3.107069
PCDHGB2	0.83254	3.664896	8.036876	2.663202
PCDHGB3	0	1.221632	0	1.331601
PCDHGB4	0	1.221632	0	3.107069
PCDHGB5	0	1.221632	32.1475	13.75988
PCDHGB6	4.995237	0	16.07375	3.107069
PCDHGB7	0.83254	1.832448	4.018438	0.887734
PCDHGB8F	0	0.610816	0	0
PCDHGC3	5.827777	12.82714	72.33188	17.75468
PCDHGC4	0	1.221632	28.12907	1.331601
PCDHGC5	0.83254	4.886528	12.05531	4.43867
PCDP1	90.74681	95.8981	12.05531	193.9699
PCF11	142.3643	195.4611	333.5304	232.1425
PCGEM1	0	0	0	0
PCGF1	178.1635	92.23321	204.9403	80.7838
PCGF2	54.11507	66.57894	36.16594	86.55407
PCGF3	616.9118	396.4196	48.22126	687.55
PCGF5	146.527	64.13568	72.33188	48.82537
PCGF6	8.325396	6.718975	36.16594	4.882537
PCID2	234.7762	268.759	40.18438	192.1944
PCIF1	237.2738	353.6624	743.411	247.2339
PCK1	5.827777	0.610816	16.07375	0
PCK2	814.2237	324.3433	719.3004	221.9335

PCLO	1.665079	76.35199	68.31345	64.36072
PCM1	126.546	309.0729	285.3091	262.3254
PCMT1	327.1881	230.2776	518.3785	173.552
PCMTD1	217.2928	125.2173	72.33188	136.711
PCMTD2	58.27777	86.12505	32.1475	179.3223
PCNA	606.9214	992.5759	932.2776	440.7599
PCNA-AS1	0	0	0	0
PCNAP1	11.65555	6.10816	176.8113	8.87734
PCNP	221.4555	191.1854	381.7516	209.5052
PCNT	518.6722	134.3795	20.09219	125.6144
PCNX	80.75634	94.67647	257.18	127.3898
PCNXL2	108.2301	200.9584	16.07375	180.21
PCNXL3	1076.474	740.9198	221.0141	860.2143
PCOLCE	248.0968	296.2457	3447.82	464.7288
PCOLCE2	83.25396	11.6055	397.8254	19.08628
PCP2	8.325396	3.664896	0	3.550936
PCP4	0	0	8.036876	0.887734
PCP4L1	0	1.221632	8.036876	1.331601
PCSK1	0	1.221632	0	2.663202
PCSK1N	0	0.610816	20.09219	5.326404
PCSK2	0	0	12.05531	0.443867
PCSK4	92.41189	36.64896	32.1475	76.34513
PCSK5	109.8952	87.34668	132.6085	37.7287
PCSK6	171.5032	199.126	132.6085	407.4699
PCSK7	928.2816	251.6562	64.29501	305.8244
PCSK9	179.8285	311.5161	8.036876	110.5229
PCTP	54.11507	123.3848	56.25813	111.4106
PCYOX1	46.62222	197.2936	24.11063	197.9647
PCYOX1L	68.26825	28.09753	56.25813	58.59045
PCYT1A	188.9865	64.74649	28.12907	91.43661
PCYT1B	0	0	0	0
PCYT2	658.5388	662.1245	152.7006	377.287
PDAP1	805.8983	835.5962	305.4013	645.8265
PDC	4.162698	0	0	0.887734
PDCD1	4.995237	2.443264	0	4.43867
PDCD10	148.192	232.1101	880.0379	159.3483
PDCD11	750.9507	211.3423	265.2169	260.1061
PDCD1LG2	1.665079	0	0	1.331601
PDCD2	330.5182	274.8672	630.8948	148.2516
PDCD2L	99.07221	164.3095	148.6822	47.0499
PDCD4	131.5413	99.563	530.4338	114.0738
PDCD5	369.6476	569.2805	775.5585	201.9595
PDCD6	707.6586	855.7532	365.6779	495.3556
PDCD6IP	460.3944	404.971	602.7657	373.2922
PDCD7	24.97619	96.50892	84.3872	98.53848
PDCL	47.45476	57.4167	104.4794	63.47298
PDCL2	1.665079	0	0	0

PDCL3	106.5651	61.69241	0	43.0551
PDDC1	1205.517	426.9604	180.8297	357.3129
PDE10A	0	1.832448	28.12907	1.331601
PDE11A	33.30158	6.10816	36.16594	17.75468
PDE12	25.80873	53.14099	72.33188	52.37631
PDE1A	0.83254	2.443264	36.16594	8.433473
PDE1B	39.9619	6.718975	96.44251	56.81498
PDE1C	0	0	8.036876	0.443867
PDE2A	17.48333	12.21632	285.3091	43.94283
PDE3A	3.330158	9.162239	120.5531	5.770271
PDE3B	36.63174	4.886528	4.018438	10.20894
PDE4A	69.10078	18.93529	28.12907	48.82537
PDE4B	3.330158	10.99469	44.20282	21.30562
PDE4C	164.0103	25.04345	80.36876	19.08628
PDE4D	72.43094	33.59488	200.9219	32.84616
PDE4DIP	118.2206	122.774	128.59	219.7142
PDE5A	34.13412	104.4495	32.1475	86.99794
PDE6A	1.665079	6.10816	4.018438	6.658005
PDE6B	0.83254	0.610816	12.05531	0.887734
PDE6C	0	0	0	0.443867
PDE6D	78.25872	103.2279	265.2169	93.21207
PDE6G	0	0	8.036876	1.331601
PDE6H	0	0	4.018438	0.443867
PDE7A	158.1825	209.5099	176.8113	179.7661
PDE7B	5.827777	3.05408	88.40564	9.765074
PDE8A	142.3643	175.3042	116.5347	203.2911
PDE8B	11.65555	9.162239	104.4794	7.989606
PDE9A	14.15317	127.6605	40.18438	133.604
PDF	41.62698	43.97875	52.23969	38.17256
PDGFA	110.7278	122.1632	229.051	87.88567
PDGFB	9.157935	81.23852	257.18	82.1154
PDGFC	34.96666	181.4123	92.42408	105.6404
PDGFD	1.665079	36.64896	40.18438	48.82537
PDGFRA	9.157935	29.92998	872.0011	56.81498
PDGFRB	29.13889	17.10285	245.1247	60.80978
PDGFRL	41.62698	66.57894	667.0607	146.92
PDHA1	775.9269	287.6943	277.2722	253.0042
PDHA2	4.995237	0.610816	60.27657	3.994803
PDHB	446.2412	356.1057	703.2267	233.0302
PDHX	36.63174	67.18975	140.6453	68.35552
PDIA2	42.45952	65.35731	4.018438	117.1809
PDIA3	2978.827	4259.83	3447.82	6138.237
PDIA3P	166.5079	243.1047	2374.897	283.1872
PDIA4	1707.539	4304.42	1145.255	3913.132
PDIA5	400.4515	170.4177	385.7701	158.4605
PDIA6	369.6476	1799.464	1314.029	1134.08
PDIK1L	34.13412	31.15161	72.33188	30.18296



PDILT	0	0	0	0
PDK1	112.3928	65.96812	24.11063	81.22766
PDK2	92.41189	144.1526	229.051	135.8233
PDK3	173.1682	15.2704	176.8113	60.80978
PDK4	4.995237	142.3201	36.16594	63.02912
PDLIM1	2054.708	799.5581	566.5998	597.8889
PDLIM2	128.2111	273.0347	313.4382	201.5156
PDLIM3	0.83254	0	148.6822	0.887734
PDLIM4	928.2816	23.82182	1149.273	35.50936
PDLIM5	298.0492	541.1829	277.2722	402.5874
PDLIM7	885.8221	685.9463	671.0792	582.3535
PDP1	51.61745	54.97344	172.7928	157.1289
PDP2	56.61269	29.31917	32.1475	28.85136
PDPK1	97.40713	108.1144	84.3872	146.4761
PDPN	0	0	16.07375	5.326404
PDPR	37.46428	50.08691	20.09219	90.105
PDRG1	337.1785	255.9319	337.5488	236.5811
PDS5A	209.8	318.8459	265.2169	386.1643
PDS5B	64.93809	103.8387	124.5716	97.20688
PDSS1	32.46904	51.30854	24.11063	24.85655
PDSS2	59.11031	55.58425	32.1475	41.27963
PDX1	175.6659	23.21101	12.05531	0.887734
PDXDC1	1020.694	690.8328	257.18	810.5012
PDXDC2P	336.346	119.7199	36.16594	188.6435
PDXK	2753.208	845.3693	116.5347	980.9461
PDXP	70.76586	76.96281	32.1475	69.24325
PDYN	0	0	0	0.443867
PDZD11	223.1206	601.6537	136.6269	306.2682
PDZD2	2.497619	1.832448	16.07375	10.65281
PDZD3	315.5325	582.1076	12.05531	210.393
PDZD4	2.497619	7.329791	52.23969	7.101872
PDZD7	74.09602	9.162239	12.05531	15.09148
PDZD8	54.94761	110.5577	68.31345	127.3898
PDZD9	0.83254	0	0	0.443867
PDZK1	4.995237	24.43264	4.018438	8.433473
PDZK1IP1	7259.745	3652.069	64.29501	4823.947
PDZK1P1	0	0	0	0
PDZRN3	34.13412	48.86528	353.6225	92.32434
PDZRN4	0	0	12.05531	0.887734
PEA15	932.4443	447.1173	2704.409	772.3286
PEAK1	65.77063	118.4983	112.5163	149.5832
PEAR1	49.11984	72.6871	152.7006	186.868
PEBP1	1474.428	554.0101	763.5032	298.2786
PEBP4	0	0	0	0.443867
PECAM1	0	141.7093	52.23969	496.2433
PECR	56.61269	191.7962	20.09219	141.1497
PEF1	825.0467	585.1617	164.756	422.1175

PEG10	14.98571	217.4505	16.07375	470.499
PEG3	3.330158	0.610816	0	1.775468
PEG3-AS1	0	0	0	0
PELI1	86.58412	76.35199	96.44251	104.3087
PELI2	21.64603	58.02752	301.3829	55.92724
PELI3	51.61745	45.8112	32.1475	38.61643
PELO	155.6849	160.6446	446.0466	141.5936
PELP1	263.915	334.7271	293.346	300.498
PEMT	99.90475	56.19507	0	49.71311
PENK	84.0865	37.87059	28.12907	199.7402
PEPD	253.092	538.7397	534.4523	352.4304
PER1	159.8476	61.0816	514.3601	78.1206
PER2	61.60793	80.01689	16.07375	111.8545
PER3	67.43571	40.31385	16.07375	83.00313
PER4	0	0	0	0
PERP	736.7975	2737.677	40.18438	1490.062
PES1	1527.71	1167.269	614.821	556.6092
PET112	89.08173	143.5417	84.3872	96.31914
PET117	29.13889	32.98406	8.036876	15.97921
PEX1	69.93332	145.985	76.35032	133.604
PEX10	60.77539	156.9797	16.07375	91.43661
PEX11A	79.9238	62.91404	8.036876	60.36591
PEX11B	114.8905	276.6996	196.9035	203.2911
PEX11G	64.10555	131.9362	0	70.13099
PEX12	11.65555	48.25446	76.35032	37.7287
PEX13	48.2873	132.5471	180.8297	110.5229
PEX14	193.9817	172.2501	64.29501	151.3587
PEX16	599.4285	196.6827	305.4013	146.92
PEX19	140.6992	305.408	192.885	278.7485
PEX2	203.1397	324.3433	313.4382	176.6591
PEX26	229.7809	285.2511	4.018438	193.9699
PEX3	40.79444	33.59488	64.29501	30.18296
PEX5	382.9682	455.0579	293.346	326.2423
PEX5L	0.83254	3.05408	28.12907	4.43867
PEX6	312.2023	366.4896	1205.531	331.1248
PEX7	50.78491	64.74649	204.9403	43.0551
PF4	5.827777	26.8759	0	13.75988
PF4V1	9.157935	64.13568	249.1432	74.56966
PFAS	107.3976	75.74118	24.11063	103.8649
PFDN1	355.4944	233.9425	586.692	194.8576
PFDN2	715.1515	511.8638	1398.416	464.2849
PFDN4	61.60793	134.9903	104.4794	50.60084
PFDN5	2831.467	1990.649	11074.82	1182.018
PFDN6	0	0	0	0
PFKFB1	10.82301	6.10816	116.5347	7.101872
PFKFB2	502.8539	138.6552	48.22126	232.1425
PFKFB3	212.2976	728.0926	108.4978	962.3037

PFKFB4	110.7278	83.68179	32.1475	89.66114
PFKL	3231.086	971.8082	735.3742	658.2548
PFKM	333.0158	100.1738	1205.531	177.1029
PFKP	1202.187	2349.198	245.1247	1791.447
PFN1	4096.927	3495.7	19537.65	2776.388
PFN1P2	0	0	0	0.443867
PFN2	29.97142	136.212	188.8666	130.9408
PFN3	0	0	0	0
PFN4	1.665079	9.162239	0	12.42828
PGA3	0	0	0	0
PGA4	0	0	0	0
PGA5	0	0	0	0
PGAM1	73.26348	61.0816	4.018438	39.0603
PGAM2	70.76586	30.5408	1032.739	57.25885
PGAM4	1.665079	0	8.036876	2.663202
PGAM5	223.1206	152.704	48.22126	128.7214
PGAP1	12.48809	9.162239	44.20282	9.765074
PGAP2	232.2785	178.9691	92.42408	127.8337
PGAP3	715.984	424.5171	48.22126	311.5946
PGBD1	17.48333	9.162239	0	16.86695
PGBD2	94.07697	40.92467	0	44.3867
PGBD3	5.827777	23.82182	0	15.53535
PGBD4	18.31587	7.940607	0	23.96882
PGBD5	1.665079	185.688	0	312.4824
PGC	11.65555	0.610816	4.018438	32.40229
PGCP1	0	0	0	0
PGD	1010.703	1652.257	305.4013	1042.2
PGF	14.98571	3.664896	8.036876	2.219335
PGGT1B	24.14365	35.42733	28.12907	28.40749
PGK1	2408.537	4925.62	4737.738	3092.422
PGK2	2.497619	1.832448	32.1475	3.107069
PGLS	1254.637	686.5571	2157.901	379.5063
PGLYRP1	6.660317	1.832448	32.1475	2.663202
PGLYRP2	0	0.610816	0	0
PGLYRP3	3.330158	0	0	0
PGLYRP4	1.665079	0	0	0
PGM1	434.5857	676.1733	626.8763	476.7132
PGM2	78.25872	180.1907	128.59	162.0115
PGM2L1	124.8809	63.52486	48.22126	71.01872
PGM3	195.6468	147.2066	152.7006	187.7557
PGM5	0	0	24.11063	0.887734
PGM5P2	0	1.221632	0	0
PGP	985.7269	718.9304	892.0932	450.525
PGPEP1	733.4674	139.266	48.22126	147.3639
PGPEP1L	0	0	0	0.887734
PGR	0	0	20.09219	0.443867
PGRMC1	394.6238	1138.561	409.8807	557.9408

PGRMC2	322.1928	291.3592	221.0141	248.1217
PGS1	166.5079	123.3848	417.9176	125.6144
PHACTR1	0	4.275712	60.27657	2.219335
PHACTR2	43.29206	32.98406	104.4794	77.23286
PHACTR3	15.81825	51.30854	4.018438	34.17776
PHACTR4	89.08173	215.0072	48.22126	139.8181
PHAX	76.59364	105.0603	462.1204	71.46259
PHB	1138.914	1658.976	755.4664	908.1519
PHB2	1514.389	1905.746	2137.809	1229.512
PHC1	11.65555	4.275712	0	19.08628
PHC2	1735.845	949.208	839.8536	972.5126
PHC3	158.1825	95.28729	76.35032	91.88047
PHEX	0.83254	1.221632	0	5.326404
PHF1	2.497619	6.718975	8.036876	7.989606
PHF10	54.11507	68.41139	345.5857	53.26404
PHF11	203.9722	130.7146	16.07375	121.6196
PHF12	272.2404	218.6721	470.1573	384.3888
PHF13	164.0103	108.1144	28.12907	129.6092
PHF14	248.9293	312.7378	932.2776	234.8057
PHF15	155.6849	167.9744	361.6594	183.3171
PHF16	14.98571	13.43795	28.12907	24.41269
PHF17	159.0151	165.5311	100.461	114.9616
PHF19	318.0301	235.1641	32.1475	175.7713
PHF2	100.7373	92.84402	221.0141	109.6352
PHF20	154.8524	117.2767	442.0282	132.2724
PHF20L1	104.0674	97.11974	200.9219	146.92
PHF21A	129.0436	65.35731	329.5119	127.3898
PHF21B	0	1.221632	24.11063	1.775468
PHF23	233.1111	188.1313	1141.236	259.6622
PHF2P1	1.665079	0	0	0.443867
PHF3	85.75158	108.7252	196.9035	136.2672
PHF5A	222.2881	298.689	337.5488	136.711
PHF6	29.97142	58.02752	120.5531	54.15178
PHF7	42.45952	6.718975	68.31345	8.87734
PHF8	96.57459	56.80588	172.7928	154.9096
PHGDH	1427.805	24.43264	630.8948	84.7786
PHGR1	83.25396	2.443264	12.05531	0
PHIP	100.7373	100.1738	478.1941	94.09981
PHKA1	12.48809	158.8121	108.4978	110.9668
PHKA2	448.7388	69.63302	305.4013	111.8545
PHKB	172.3357	422.0738	72.33188	320.9159
PHKG1	10.82301	6.718975	88.40564	8.87734
PHKG2	969.9086	375.041	582.6735	529.5334
PHLDA1	145.6944	388.4789	253.1616	183.3171
PHLDA2	830.042	412.3008	16.07375	249.0094
PHLDA3	208.1349	340.2245	301.3829	260.9938
PHLDB1	300.5468	123.9956	514.3601	221.9335

PHLDB2	49.95237	33.59488	52.23969	94.54367
PHLDB3	65.77063	129.493	84.3872	106.0842
PHLPP1	43.29206	84.90342	104.4794	71.90646
PHLPP2	39.12936	26.26509	36.16594	29.73909
PHOSPHO1	16.65079	7.329791	301.3829	11.09668
PHOSPHO2	4.162698	13.43795	40.18438	6.658005
PHOSPHO2	0	0	0	0
PHOX2A	0	0	16.07375	0
PHOX2B	0	0.610816	36.16594	0
PHPT1	1406.159	1056.101	269.2353	605.8785
PHRF1	367.9825	272.4239	309.4197	300.498
PHTF1	81.58888	113.6118	233.0694	122.9512
PHTF2	12.48809	18.32448	60.27657	28.40749
PHYH	62.44047	183.2448	84.3872	113.63
PHYHD1	11.65555	156.9797	212.9772	122.9512
PHYHIP	9.157935	7.329791	32.1475	14.20374
PHYHIPL	0	0	0	1.331601
PI15	0	0.610816	20.09219	1.331601
PI16	2.497619	32.37325	1788.205	55.48338
PI3	10681.48	795.8932	24.11063	4296.633
PI4K2A	169.8381	89.78995	313.4382	137.1549
PI4K2B	79.9238	50.08691	40.18438	47.49377
PI4KA	240.6039	246.1588	365.6779	226.3722
PI4KAP1	53.28253	24.43264	24.11063	24.85655
PI4KAP2	5.827777	14.04877	0	31.95843
PI4KB	527.8301	557.675	755.4664	562.8234
PIAS1	65.77063	93.45484	237.0878	141.5936
PIAS2	73.26348	29.31917	229.051	75.01353
PIAS3	382.1357	278.5321	212.9772	445.1986
PIAS4	68.26825	61.0816	64.29501	57.70271
PIBF1	35.7992	65.96812	52.23969	40.3919
PICALM	675.1896	988.911	4327.858	1087.918
PICK1	526.165	585.7725	156.7191	313.3701
PID1	6.660317	4.886528	48.22126	10.65281
PIDD	487.0357	310.2945	8.036876	261.8815
PIEZO1	1815.769	1271.719	1044.794	1666.721
PIEZO2	4.995237	19.54611	44.20282	39.94803
PIF1	228.9484	127.0497	12.05531	82.55927
PIGA	27.47381	21.37856	24.11063	31.95843
PIGB	9.990475	67.80057	0	69.24325
PIGC	119.0532	411.0791	72.33188	282.2994
PIGF	13.32063	45.8112	28.12907	35.06549
PIGG	205.6373	315.7918	12.05531	375.9554
PIGH	26.64127	67.80057	8.036876	50.15697
PIGK	49.11984	142.9309	56.25813	108.3036
PIGL	36.63174	29.92998	8.036876	32.84616
PIGM	64.93809	115.4442	4.018438	97.20688

PIGN	34.13412	60.47078	12.05531	66.13619
PIGO	240.6039	396.4196	92.42408	348.8795
PIGP	29.13889	48.25446	152.7006	37.7287
PIGQ	1153.9	502.0907	76.35032	442.0916
PIGR	28884.13	1373.114	225.0325	3915.351
PIGS	223.9531	442.2308	196.9035	290.289
PIGT	665.1991	907.0617	333.5304	783.4253
PIGU	402.9492	476.4364	196.9035	288.9574
PIGV	43.29206	219.2829	44.20282	129.1653
PIGW	45.78968	80.62771	4.018438	65.24845
PIGX	178.1635	139.8769	40.18438	67.46779
PIGY	209.8	453.8363	64.29501	238.8005
PIGZ	94.07697	31.76243	8.036876	31.95843
PIH1D1	1355.374	900.9535	755.4664	518.4367
PIH1D2	22.47857	31.76243	4.018438	13.75988
PIK3AP1	14.15317	188.1313	56.25813	177.5468
PIK3C2A	43.29206	45.20038	72.33188	79.00833
PIK3C2B	205.6373	164.9203	92.42408	239.6882
PIK3C2G	14.98571	40.92467	0	16.86695
PIK3C3	37.46428	69.63302	329.5119	79.4522
PIK3CA	35.7992	59.24915	233.0694	66.58005
PIK3CB	232.2785	139.266	164.756	114.0738
PIK3CD	29.13889	39.09222	132.6085	74.56966
PIK3CG	4.162698	4.275712	36.16594	14.20374
PIK3IP1	112.3928	179.5799	40.18438	177.5468
PIK3R1	49.11984	155.1473	538.4707	191.3067
PIK3R2	265.5801	160.6446	884.0564	233.9179
PIK3R3	87.41666	348.1651	80.36876	485.5905
PIK3R4	127.3786	103.8387	132.6085	94.98754
PIK3R5	6.660317	1.221632	156.7191	19.97402
PIK3R6	13.32063	2.443264	64.29501	5.326404
PIKFYVE	39.12936	55.58425	108.4978	98.98235
PILRA	5.827777	0.610816	0	3.107069
PILRB	1225.498	1899.027	32.1475	2393.775
PIM1	214.7952	103.8387	482.2126	101.6455
PIM2	155.6849	25.04345	92.42408	27.51976
PIM3	744.2904	402.5277	188.8666	268.5395
PIN1	665.1991	432.4577	490.2494	217.4948
PIN1P1	0.83254	0	36.16594	1.331601
PIN4	264.7476	272.4239	590.7104	110.9668
PINK1	689.3428	371.3761	1153.292	456.2953
PINX1	39.12936	67.80057	16.07375	42.16737
PION	105.7325	128.8822	68.31345	141.5936
PIP	0	3.05408	0	34.17776
PIP4K2A	45.78968	100.7846	233.0694	139.8181
PIP4K2B	271.4079	359.1598	108.4978	350.2111
PIP4K2C	278.9008	233.9425	132.6085	255.6674

PIP5K1A	109.8952	166.7528	116.5347	308.4876
PIP5K1B	33.30158	17.71366	12.05531	15.53535
PIP5K1C	198.977	127.6605	92.42408	210.393
PIP5K1P1	3.330158	0.610816	28.12907	3.550936
PIP5KL1	2.497619	6.718975	0	8.87734
PIPOX	12.48809	4.886528	0	19.53015
PIPSL	49.11984	22.60019	723.3188	28.40749
PIR	24.14365	41.53548	0	11.98441
PIR-FIGF	0	1.221632	0	0
PIRT	0	0	0	0
PISD	397.1214	389.7006	1153.292	313.814
PISRT1	0	0	0	0
PITHD1	600.261	288.9159	128.59	235.6934
PITPNA	517.0071	321.9	3668.834	468.7236
PITPNB	13.32063	57.4167	100.461	51.04471
PITPNC1	103.2349	203.4017	80.36876	99.42621
PITPNM1	1023.191	615.7025	707.2451	446.9741
PITPNM2	7.492856	43.36793	112.5163	56.81498
PITPNM3	101.5698	107.5036	32.1475	73.23806
PITRM1	668.5293	305.408	176.8113	323.1352
PITX1	1121.431	290.7484	20.09219	265.4325
PITX2	0.83254	0	44.20282	0.887734
PITX3	0	0	44.20282	0.887734
PIWIL1	0.83254	0	0	0
PIWIL2	0	0.610816	4.018438	1.331601
PIWIL3	0	0	0	0
PIWIL4	119.8857	113.001	8.036876	92.32434
PJA1	104.0674	586.3833	433.9913	292.5084
PJA2	51.61745	97.11974	337.5488	130.9408
PKD1	703.4959	323.7325	84.3872	395.9294
PKD1L1	0	1.832448	8.036876	2.663202
PKD1L2	1.665079	4.275712	8.036876	11.54054
PKD1L3	14.15317	4.886528	4.018438	3.550936
PKD1P1	72.43094	40.31385	4.018438	92.32434
PKD2	25.80873	42.75712	100.461	62.14138
PKD2L1	0	0.610816	20.09219	2.663202
PKD2L2	0	0	0	0
PKDCC	1092.292	981.5812	397.8254	294.2838
PKDREJ	5.827777	1.832448	8.036876	2.663202
PKHD1	6.660317	487.4311	16.07375	937.0033
PKHD1L1	0	0	28.12907	0.887734
PKI55	34.13412	23.21101	0	24.85655
PKIA	34.13412	0	68.31345	0.887734
PKIB	9.990475	77.57363	20.09219	88.32954
PKIG	11.65555	25.04345	309.4197	40.83577
PKLR	25.80873	7.329791	216.9957	15.09148
PKM2	7391.286	8688.857	9772.841	8387.311

PKMYT1	280.5658	238.829	36.16594	186.868
PKN1	468.7198	563.7831	1595.32	396.3732
PKN2	61.60793	90.40076	160.7375	129.1653
PKN3	211.4651	217.4505	200.9219	172.2204
PKNOX1	139.0341	128.8822	52.23969	133.604
PKNOX2	3.330158	4.886528	24.11063	3.994803
PKP1	9.990475	43.97875	24.11063	61.69752
PKP2	56.61269	215.0072	24.11063	138.9304
PKP3	3158.655	1283.324	225.0325	710.6311
PKP4	581.1126	842.3152	606.7841	776.7673
PLA1A	26.64127	18.32448	1382.343	74.12579
PLA2G10	245.5992	49.47609	0	23.08108
PLA2G12A	59.94285	119.7199	4.018438	115.4054
PLA2G12B	0	0.610816	4.018438	0
PLA2G15	218.9579	144.1526	233.0694	147.3639
PLA2G16	812.5586	2821.359	1004.61	1255.7
PLA2G1B	1.665079	0	0	0.443867
PLA2G2A	1.665079	0	0	0
PLA2G2C	0	0	0	0
PLA2G2D	0	1.832448	76.35032	0.443867
PLA2G2E	0	0	8.036876	0
PLA2G2F	31.6365	4.886528	8.036876	7.989606
PLA2G3	83.25396	1.221632	4.018438	0.443867
PLA2G4A	32.46904	154.5364	68.31345	74.56966
PLA2G4B	0	0	0	1.775468
PLA2G4C	10.82301	8.551423	4.018438	13.75988
PLA2G4D	0	1.221632	0	1.775468
PLA2G4E	0.83254	1.832448	8.036876	3.994803
PLA2G4F	29.97142	15.2704	8.036876	26.18815
PLA2G5	0	0	0	0.443867
PLA2G6	190.6516	193.0178	128.59	178.4345
PLA2G7	28.30635	8.551423	208.9588	25.74429
PLA2R1	20.81349	216.2288	20.09219	201.5156
PLAA	141.5317	268.1482	976.4804	186.4241
PLAC1	4.995237	0	0	1.775468
PLAC1L	0	0	0	0
PLAC2	0	1.221632	0	2.219335
PLAC4	8.325396	3.664896	0	4.43867
PLAC8	729.3047	123.3848	538.4707	27.96362
PLAC8L1	7.492856	1.832448	4.018438	0.887734
PLAC9	9.990475	6.10816	261.1985	7.989606
PLAG1	1.665079	28.70835	20.09219	31.95843
PLAGL1	31.6365	3.664896	12.05531	0.443867
PLAGL2	111.5603	109.3361	52.23969	98.09461
PLAT	357.1595	379.3167	68.31345	471.8306
PLAU	79.09126	479.4905	168.7744	850.0053
PLAUR	414.6047	479.4905	8.036876	314.2578



PLB1	23.31111	6.10816	0	19.08628
PLBD1	776.7594	1974.768	216.9957	944.9929
PLBD2	49.11984	61.0816	337.5488	75.90126
PLCB1	20.81349	17.10285	48.22126	18.19855
PLCB2	152.3547	56.19507	16.07375	78.1206
PLCB3	2411.867	845.9801	397.8254	584.5729
PLCB4	108.2301	89.17913	196.9035	61.69752
PLCD1	84.91904	58.63833	88.40564	75.45739
PLCD3	152.3547	343.2786	56.25813	155.7973
PLCD4	32.46904	21.37856	0	45.7183
PLCE1	96.57459	59.85996	88.40564	31.07069
PLCG1	203.9722	311.5161	663.0423	561.4918
PLCG2	68.26825	15.88121	92.42408	27.07589
PLCH1	94.07697	46.42201	8.036876	47.93764
PLCH2	114.0579	126.4389	8.036876	134.4917
PLCL1	0	6.718975	40.18438	13.31601
PLCL2	210.6325	100.1738	1394.398	80.7838
PLCXD1	0	0	0	0
PLCXD2	0	0	8.036876	2.663202
PLCXD3	0	1.832448	36.16594	8.87734
PLCZ1	1.665079	0	0	0
PLD1	208.1349	125.2173	12.05531	128.2776
PLD2	242.269	345.7218	329.5119	307.5998
PLD3	1157.23	1111.685	3258.953	1259.251
PLD4	47.45476	18.32448	152.7006	56.37111
PLD5	0	0	0	0.443867
PLD6	3.330158	4.886528	0	7.989606
PLDN	49.95237	136.8228	12.05531	117.6248
PLEC	6651.159	4858.43	638.9316	4138.172
PLEK	35.7992	22.60019	385.7701	60.80978
PLEK2	179.8285	260.8184	4.018438	162.8992
PLEKHA1	69.93332	65.96812	144.6638	102.9771
PLEKHA2	278.9008	109.9469	68.31345	169.1133
PLEKHA3	15.81825	50.69772	72.33188	37.7287
PLEKHA4	669.3618	149.0391	88.40564	107.4158
PLEKHA5	71.5984	466.0526	68.31345	329.7932
PLEKHA6	807.5634	697.5518	48.22126	815.3837
PLEKHA7	116.5555	98.95218	28.12907	148.2516
PLEKHA8	33.30158	45.20038	116.5347	62.14138
PLEKHA8P:	35.7992	23.82182	76.35032	17.31081
PLEKHB1	239.7714	32.37325	60.27657	55.92724
PLEKHB2	425.4277	467.885	20.09219	340.8899
PLEKHD1	0	0	32.1475	0.443867
PLEKHF1	54.11507	52.53017	68.31345	54.59564
PLEKHF2	57.44523	77.57363	120.5531	69.24325
PLEKHG1	44.1246	70.24383	4.018438	53.26404
PLEKHG2	98.23967	133.7687	32.1475	154.0219

PLEKHG3	139.8666	505.1448	64.29501	477.157
PLEKHG4	162.3452	45.20038	0	61.25365
PLEKHG4B	1.665079	0	0	1.775468
PLEKHG5	75.7611	37.87059	289.3275	94.09981
PLEKHG6	209.8	380.5383	20.09219	209.9491
PLEKHG7	5.827777	1.832448	0	7.545739
PLEKHH1	127.3786	44.58956	16.07375	99.87008
PLEKHH2	41.62698	48.25446	12.05531	81.22766
PLEKHH3	132.3738	365.8788	357.641	539.2984
PLEKHJ1	1945.645	636.4702	578.6551	384.3888
PLEKHM1	12.48809	26.26509	0	21.30562
PLEKHM1P	32.46904	106.282	0	108.7474
PLEKHM2	387.1309	378.0951	759.4848	386.1643
PLEKHM3	11.65555	18.93529	28.12907	32.40229
PLEKHN1	141.5317	53.7518	8.036876	82.55927
PLEKHO1	576.9499	178.9691	6180.358	236.1373
PLEKHO2	136.5365	50.08691	225.0325	118.5125
PLG	0	0	0	0
PLGLA	0	0	0	0
PLGLB1	0	0	0	0
PLGLB2	0	0	0	0
PLIN1	12.48809	3.05408	4.018438	8.433473
PLIN2	131.5413	525.3017	5714.219	355.9813
PLIN3	423.7626	353.0516	84.3872	336.4512
PLIN4	14.15317	1.221632	20.09219	23.08108
PLIN5	28.30635	3.664896	4.018438	48.82537
PLK1	513.6769	227.8344	40.18438	190.8628
PLK1S1	67.43571	47.64364	164.756	42.61123
PLK2	581.9452	445.8956	1281.882	566.8182
PLK3	344.6714	130.7146	249.1432	229.4792
PLK4	39.12936	48.86528	16.07375	49.26924
PLK5	0	4.886528	16.07375	2.219335
PLLP	943.2673	1115.35	24.11063	468.2797
PLN	0	0	0	0
PLOD1	613.5817	563.1723	233.0694	646.2704
PLOD2	196.4793	86.12505	60.27657	173.9959
PLOD3	1190.532	1255.838	839.8536	1336.04
PLP1	0	0	100.461	8.433473
PLP2	1461.107	983.4137	438.0097	493.1363
PLRG1	251.427	386.0357	747.4295	279.6362
PLS1	278.0682	301.1323	24.11063	215.7194
PLS3	162.3452	1075.647	554.5445	706.1924
PLSCR1	787.5824	639.5243	32.1475	460.734
PLSCR2	9.990475	1.221632	104.4794	8.433473
PLSCR3	0	0	0	1.331601
PLSCR4	11.65555	38.48141	96.44251	22.19335
PLSCR5	0.83254	0	0	0.887734

PLTP	547.811	54.36262	6493.796	190.8628
PLVAP	3.330158	0	24.11063	5.770271
PLXDC1	4.995237	2.443264	12.05531	8.87734
PLXDC2	51.61745	59.85996	707.2451	101.6455
PLXNA1	1624.285	364.6571	313.4382	501.5697
PLXNA2	365.4849	312.7378	88.40564	235.6934
PLXNA3	732.6348	638.9135	80.36876	750.5791
PLXNA4	2.497619	10.38387	28.12907	7.545739
PLXNB1	3522.475	1165.437	68.31345	1416.38
PLXNB2	1750.831	2999.717	655.0054	2836.754
PLXNB3	63.27301	1342.573	56.25813	1241.94
PLXNC1	26.64127	15.88121	216.9957	34.17776
PLXND1	139.0341	213.7856	498.2863	607.6539
PM20D1	0	0	0	0
PM20D2	4.162698	54.97344	28.12907	38.61643
PMAIP1	20.81349	21.37856	0	42.61123
PMCH	0	0	0	0
PMCHL1	0	0	0	0
PMCHL2	0	0	0	0.443867
PMEL	34.96666	34.81651	4.018438	20.86175
PMEPA1	310.5373	2279.565	297.3644	1583.274
PMF1	285.5611	164.3095	4.018438	108.7474
PMF1-BGL	0	0	0	0
PMFBP1	22.47857	2.443264	12.05531	5.770271
PML	606.0888	552.7884	48.22126	859.7704
PMM1	726.8071	177.7474	466.1388	92.76821
PMM2	884.157	479.4905	140.6453	452.7444
PMP2	0	0	4.018438	0
PMP22	149.8571	53.7518	2933.46	161.1237
PMPCA	918.2912	249.2129	108.4978	229.9231
PMPCB	227.2833	1070.15	538.4707	840.2403
PMS1	30.80396	96.50892	24.11063	74.12579
PMS2	12.48809	29.92998	28.12907	25.74429
PMS2CL	3.330158	9.773055	0	12.42828
PMS2L2	0	0	0	0
PMS2P1	30.80396	120.3307	0	81.22766
PMS2P3	27.47381	15.88121	4.018438	14.20374
PMS2P4	1.665079	7.329791	0	4.882537
PMS2P5	1.665079	6.10816	0	7.989606
PMVK	661.0364	849.645	188.8666	413.2402
PNCK	78.25872	18.32448	48.22126	19.53015
PNISR	462.0595	403.7493	904.1486	613.8681
PNKD	890.8173	885.6831	727.3373	843.3473
PNKP	544.4809	614.4808	148.6822	368.8535
PNLDC1	9.990475	1.221632	12.05531	2.219335
PNLIP	0	0	0	0
PNLIPRP1	0.83254	0	16.07375	0

PNLIPRP2	0	0	8.036876	0
PNLIPRP3	0	0	0	0
PNMA1	108.2301	161.2554	0	126.5021
PNMA2	54.11507	83.68179	0	138.0426
PNMA3	0	0	12.05531	0.443867
PNMA5	0	0	0	0.443867
PNMA6A	0	0	0	0
PNMA6C	12.48809	0	0	0
PNMA6D	0	0	0	0
PNMAL1	0	0	12.05531	0.443867
PNMAL2	0	0.610816	0	0
PNMT	14.98571	47.64364	8.036876	17.75468
PNN	679.3523	707.9357	872.0011	1223.741
PNO1	90.74681	135.6011	100.461	88.32954
PNOC	0	0	36.16594	0
PNP	721.8118	722.5953	1125.163	437.6529
PNPLA1	0.83254	2.443264	0	3.550936
PNPLA2	3301.019	1081.144	791.6323	895.2798
PNPLA3	39.9619	51.91936	8.036876	26.18815
PNPLA4	56.61269	65.96812	12.05531	41.27963
PNPLA5	0	0	0	0
PNPLA6	566.9595	354.8841	281.2907	329.7932
PNPLA7	79.09126	17.71366	136.6269	57.25885
PNPLA8	44.1246	91.62239	156.7191	121.6196
PNPO	130.7087	247.9913	64.29501	264.9886
PNPT1	143.1968	189.9638	96.44251	121.6196
PNRC1	167.3405	122.1632	646.9685	146.0322
PNRC2	21.64603	14.65958	12.05531	12.87214
POC1A	278.9008	105.0603	60.27657	65.24845
POC1B	64.93809	53.7518	28.12907	56.37111
POC1B-GA	0	0	0	0
POC5	47.45476	45.8112	60.27657	56.37111
PODN	1.665079	6.10816	76.35032	15.09148
PODNL1	36.63174	3.05408	36.16594	4.43867
PODXL	196.4793	70.24383	36.16594	81.22766
PODXL2	484.538	122.774	381.7516	146.92
POF1B	113.2254	248.6021	24.11063	90.99274
POFUT1	210.6325	378.7059	32.1475	344.4408
POFUT2	483.7055	160.0338	261.1985	256.1113
POGK	165.6754	263.8725	32.1475	271.2027
POGLUT1	104.0674	40.92467	60.27657	47.0499
POGZ	261.4174	417.7981	180.8297	633.8421
POLA1	60.77539	47.64364	84.3872	47.0499
POLA2	212.2976	198.5152	112.5163	159.7921
POLB	497.0261	204.0125	385.7701	142.4813
POLD1	581.9452	439.1767	365.6779	288.9574
POLD2	2202.067	787.9526	245.1247	519.7683

POLD3	337.1785	166.7528	68.31345	153.1341
POLD4	1909.013	1290.043	321.475	739.9263
POLDIP2	719.3142	897.8995	634.9132	838.4648
POLDIP3	408.7769	555.2317	56.25813	355.5375
POLE	835.8697	345.7218	52.23969	329.3493
POLE2	35.7992	41.53548	44.20282	23.52495
POLE3	442.9111	158.8121	381.7516	170.8888
POLE4	322.1928	316.4027	265.2169	178.4345
POLG	287.2262	216.8397	357.641	372.4044
POLG2	39.12936	63.52486	112.5163	61.25365
POLH	91.57935	80.01689	20.09219	84.33473
POLI	11.65555	56.80588	28.12907	81.22766
POLK	10.82301	32.37325	4.018438	41.27963
POLL	461.2269	140.4877	100.461	137.5988
POLM	251.427	164.3095	8.036876	268.5395
POLN	4.162698	0.610816	4.018438	2.219335
POLQ	198.977	61.69241	12.05531	86.99794
POLR1A	79.9238	108.7252	76.35032	123.395
POLR1B	89.08173	101.3954	80.36876	126.0582
POLR1C	678.5198	310.2945	578.6551	253.4481
POLR1D	645.2182	656.0163	1378.324	367.078
POLR1E	155.6849	182.634	84.3872	71.90646
POLR2A	531.1603	233.9425	373.7147	384.3888
POLR2B	565.2944	635.8594	610.8026	664.4689
POLR2C	366.3174	571.7237	650.987	406.1383
POLR2D	184.8238	134.9903	337.5488	120.288
POLR2E	1813.271	893.6237	1257.771	647.602
POLR2F	463.7245	386.0357	1197.495	201.0718
POLR2G	552.8063	750.6928	1301.974	463.3972
POLR2H	2968.836	599.8213	566.5998	435.8774
POLR2I	527.8301	366.4896	1310.011	237.4689
POLR2J	505.3515	543.0154	8.036876	458.0708
POLR2J2	8.325396	9.162239	88.40564	15.53535
POLR2J3	17.48333	6.718975	0	12.87214
POLR2J4	65.77063	42.75712	52.23969	45.27444
POLR2K	360.4896	382.3708	365.6779	280.524
POLR2L	1976.449	1001.738	1406.453	785.2008
POLR2M	3.330158	28.09753	168.7744	32.40229
POLR3A	135.704	148.4283	128.59	185.9803
POLR3B	80.75634	34.20569	84.3872	44.83057
POLR3C	144.0293	152.704	225.0325	116.737
POLR3D	38.29682	120.9416	212.9772	106.5281
POLR3E	220.623	189.3529	196.9035	195.7454
POLR3F	74.09602	84.2926	4.018438	57.70271
POLR3G	10.82301	9.773055	0	6.214138
POLR3GL	172.3357	171.6393	241.1063	105.1965
POLR3H	323.0254	263.2617	144.6638	185.9803

POLR3K	215.6278	160.6446	80.36876	117.1809
POLRMT	434.5857	259.5968	48.22126	181.5416
POM121	101.5698	54.36262	8.036876	83.89087
POM121C	104.0674	61.0816	0	97.65074
POM121L1	0	0	0	0.443867
POM121L1	1.665079	0	0	0
POM121L1	0	0	4.018438	0.887734
POM121L2	0	0	0	0.443867
POM121L4	0	1.221632	0	0
POM121L8	0	0	0	0
POM121L9	1.665079	0.610816	0	0
POMC	4.995237	0.610816	36.16594	1.331601
POMGNT1	248.0968	479.4905	301.3829	418.1227
POMP	697.6682	645.0216	1852.5	316.4772
POMT1	149.0246	129.493	8.036876	140.7058
POMT2	130.7087	153.3148	40.18438	206.842
POMZP3	40.79444	12.21632	4.018438	10.65281
PON1	0	3.05408	0	140.262
PON2	409.6095	1275.384	140.6453	1200.66
PON3	25.80873	48.86528	132.6085	94.09981
POP1	228.9484	116.055	24.11063	76.78899
POP4	409.6095	447.1173	112.5163	203.2911
POP5	492.0309	167.9744	221.0141	142.4813
POP7	447.0738	747.0279	337.5488	496.6872
POPDC2	23.31111	0.610816	16.07375	11.54054
POPDC3	0	0	24.11063	1.331601
POR	1083.967	1153.221	630.8948	1407.946
PORCN	64.93809	42.1463	148.6822	86.99794
POSTN	59.11031	224.7803	377.7332	324.0229
POT1	31.6365	111.7793	8.036876	58.59045
POTEA	0	0	0	0
POTEB	0	0	0	0
POTEC	0	0	0	0
POTED	0	0	0	0
POTEE	0	0	8.036876	0.443867
POTEF	31.6365	27.48672	586.692	70.57486
POTEG	0	0	0	0
POTEH	0	0	0	0
POTEKP	4.162698	4.275712	257.18	20.41788
POTEM	0	0	0	0
POU1F1	0	0	0	0
POU2AF1	235.6087	4.275712	16.07375	0.887734
POU2F1	198.1444	92.84402	168.7744	102.0894
POU2F2	26.64127	28.70835	212.9772	38.61643
POU2F3	27.47381	18.93529	16.07375	21.74948
POU3F1	1.665079	0	229.051	0
POU3F2	0	0	44.20282	0.443867

POU3F3	0	0	44.20282	0
POU3F4	0	0	24.11063	0.887734
POU4F1	0	0	68.31345	0.443867
POU4F2	0	0.610816	20.09219	0.443867
POU4F3	0	0	44.20282	0.887734
POU5F1	0	0.610816	0	3.550936
POU5F1B	4.995237	0.610816	0	2.663202
POU5F1P3	0.83254	0	0	0.443867
POU5F1P4	0	1.832448	0	0
POU5F2	2.497619	0.610816	0	1.331601
POU6F1	33.30158	7.940607	76.35032	19.97402
POU6F2	1.665079	0.610816	72.33188	0
PP12613	0	0	0	0
PP14571	0	0.610816	0	8.87734
PP2D1	0	1.221632	0	1.775468
PP7080	738.4626	149.6499	8.036876	149.5832
PPA1	492.0309	1372.503	253.1616	806.0625
PPA2	315.5325	623.6431	192.885	288.5136
PPAN	152.3547	34.20569	0	24.85655
PPAN-P2R\	0	0	0	0
PPAP2A	43.29206	168.5852	124.5716	89.66114
PPAP2B	52.44999	121.5524	1036.757	221.9335
PPAP2C	2411.867	1046.939	64.29501	806.0625
PPAPDC1A	0	0	16.07375	0
PPAPDC1B	317.1976	310.9053	108.4978	354.6497
PPAPDC2	66.60317	84.2926	44.20282	80.33993
PPAPDC3	2.497619	0.610816	36.16594	2.663202
PPARA	118.2206	153.3148	8.036876	121.1757
PPARD	155.6849	207.0666	96.44251	351.0988
PPARG	248.0968	120.9416	518.3785	85.66633
PPARGC1A	5.827777	15.2704	20.09219	28.85136
PPARGC1B	129.0436	0.610816	44.20282	11.98441
PPAT	34.96666	54.97344	28.12907	43.49897
PPBP	3.330158	4.886528	0	29.73909
PPBPL2	0	0	0	0
PPCDC	139.8666	178.3583	100.461	210.393
PPCS	280.5658	577.8319	76.35032	377.287
PPDPF	1936.487	2603.908	369.6963	1621.002
PPEF1	0	0	0	0.887734
PPEF2	4.162698	0	12.05531	0
PPFIA1	146.527	269.9807	124.5716	354.6497
PPFIA2	13.32063	16.49203	8.036876	19.53015
PPFIA3	444.5761	97.73055	76.35032	66.58005
PPFIA4	234.7762	30.5408	44.20282	63.47298
PPFIBP1	88.2492	268.1482	212.9772	256.999
PPFIBP2	317.1976	310.9053	120.5531	126.5021
PPHLN1	182.3262	254.7103	40.18438	134.9356

PPIA	1667.577	1437.861	44.20282	797.629
PPIAL4A	0	0	0	0
PPIAL4B	0	0	0	0
PPIAL4C	0	0	0	0
PPIAL4D	0	0	0	0
PPIAL4E	0	0	0	0
PPIAL4F	0	0	0	0
PPIAL4G	0	0	0	0
PPIB	546.9785	2062.115	2149.864	1929.046
PPIC	264.7476	409.8575	566.5998	393.2662
PPID	168.173	200.9584	630.8948	146.4761
PPIE	354.6619	457.5011	727.3373	306.7121
PIEL	16.65079	3.664896	0	2.219335
PPIF	1192.197	369.5437	84.3872	499.3504
PPIG	221.4555	520.4152	851.9089	348.8795
PPIH	449.5714	208.2882	325.4935	161.5676
PPIL1	82.42142	268.1482	124.5716	136.2672
PPIL2	516.1745	383.5924	502.3048	325.7984
PPIL3	44.1246	150.8715	393.8069	111.4106
PPIL4	49.95237	65.96812	76.35032	75.45739
PPIL6	20.81349	6.718975	0	8.433473
PPIP5K1	130.7087	149.6499	36.16594	199.7402
PPIP5K2	35.7992	89.78995	52.23969	83.447
PPL	328.8531	808.1095	104.4794	859.3265
PPM1A	154.8524	188.1313	751.4479	190.419
PPM1B	147.3595	169.196	454.0835	212.6123
PPM1D	11.65555	32.98406	156.7191	41.27963
PPM1E	0	1.221632	80.36876	1.331601
PPM1F	212.2976	164.9203	20.09219	131.3846
PPM1G	1269.623	1147.112	1157.31	894.392
PPM1H	138.2016	58.63833	196.9035	76.34513
PPM1J	99.07221	32.98406	204.9403	26.18815
PPM1K	11.65555	15.2704	32.1475	13.31601
PPM1L	4.162698	21.98937	20.09219	14.20374
PPM1M	92.41189	89.17913	663.0423	111.8545
PPM1N	28.30635	46.42201	4.018438	12.87214
PPME1	377.1404	286.4727	273.2538	312.4824
PPOX	215.6278	150.8715	478.1941	134.9356
PPP1CA	1414.485	1526.429	3946.106	1050.189
PPP1CB	228.1158	296.2457	835.8351	353.3181
PPP1CC	404.6142	371.9869	3632.668	357.7568
PPP1R10	0	0	0	0
PPP1R11	12.48809	39.09222	0	26.18815
PPP1R12A	91.57935	87.9575	767.5217	105.6404
PPP1R12B	221.4555	71.46547	64.29501	99.42621
PPP1R12C	1882.372	1192.313	1088.997	786.0885
PPP1R13B	218.9579	155.1473	128.59	239.6882



PPP1R13L	601.9261	462.9985	52.23969	394.5978
PPP1R14A	5.827777	47.03283	24.11063	35.50936
PPP1R14B	1325.403	968.1433	1739.984	751.4669
PPP1R14C	321.3603	3.05408	16.07375	7.101872
PPP1R14D	119.0532	141.0985	4.018438	80.33993
PPP1R15A	666.0317	545.4586	92.42408	371.9606
PPP1R15B	138.2016	158.2013	40.18438	221.9335
PPP1R16A	3964.553	957.7594	176.8113	867.3162
PPP1R16B	8.325396	3.664896	148.6822	5.770271
PPP1R17	0	1.221632	0	0
PPP1R18	0	0	0	0
PPP1R1A	0	4.275712	132.6085	0
PPP1R1B	2914.721	65.35731	52.23969	23.08108
PPP1R1C	28.30635	37.25977	0	48.82537
PPP1R2	90.74681	98.95218	160.7375	84.33473
PPP1R21	136.5365	139.8769	341.5672	130.4969
PPP1R26	171.5032	145.985	0	135.8233
PPP1R27	3.330158	0	28.12907	0.887734
PPP1R2P3	0	0	4.018438	0
PPP1R2P9	0	0	0	0.443867
PPP1R32	52.44999	10.99469	8.036876	9.765074
PPP1R35	593.6007	1054.268	245.1247	829.5875
PPP1R36	18.31587	77.57363	0	26.63202
PPP1R37	495.361	568.6697	277.2722	347.9917
PPP1R3A	0	0	0	0
PPP1R3B	45.78968	120.3307	12.05531	170.8888
PPP1R3C	14.98571	101.3954	104.4794	175.3275
PPP1R3D	24.14365	37.25977	0	42.61123
PPP1R3E	110.7278	92.84402	44.20282	75.01353
PPP1R3F	9.157935	31.15161	56.25813	44.3867
PPP1R3G	9.157935	48.25446	0	30.62682
PPP1R42	0.83254	0	0	0.443867
PPP1R7	556.969	610.816	168.7744	392.3784
PPP1R8	174.0008	176.5258	337.5488	164.6747
PPP1R9A	24.14365	100.7846	28.12907	131.3846
PPP1R9B	147.3595	224.1695	1233.66	323.1352
PPP2CA	369.6476	431.8469	2507.505	428.7755
PPP2CB	109.8952	438.5659	743.411	292.0645
PPP2R1A	2895.573	2989.333	3054.013	1573.509
PPP2R1B	154.8524	152.0932	76.35032	179.7661
PPP2R2A	144.0293	267.5374	389.7885	245.9023
PPP2R2B	0	0.610816	80.36876	0.443867
PPP2R2C	10.82301	0	4.018438	0.887734
PPP2R2D	258.0873	146.5958	176.8113	214.8316
PPP2R3A	42.45952	120.3307	24.11063	104.7526
PPP2R3B	0	0	0	0
PPP2R3B-A	0	0	0	0

PPP2R3C	68.26825	90.40076	269.2353	61.69752
PPP2R4	1213.843	893.0129	610.8026	705.7486
PPP2R5A	394.6238	439.7875	759.4848	402.5874
PPP2R5B	206.4698	207.0666	273.2538	325.3545
PPP2R5C	258.0873	549.1235	787.6139	418.5666
PPP2R5D	351.3317	262.6509	257.18	216.1632
PPP2R5E	20.81349	53.14099	225.0325	67.46779
PPP3CA	140.6992	195.4611	1792.223	210.8368
PPP3CB	104.0674	127.0497	1535.043	117.1809
PPP3CC	27.47381	65.35731	100.461	57.25885
PPP3R1	318.8627	168.5852	1326.085	218.8264
PPP3R2	0.83254	0	4.018438	0.443867
PPP4C	1756.659	1039.609	2459.284	830.0313
PPP4R1	526.9976	729.3142	297.3644	602.3275
PPP4R1L	35.7992	22.60019	4.018438	25.74429
PPP4R2	12.48809	29.92998	48.22126	43.94283
PPP4R4	9.157935	0	8.036876	0.887734
PPP5C	570.2896	616.3133	610.8026	304.0489
PPP6C	159.0151	158.2013	859.9457	171.3327
PPP6R1	1647.596	985.2461	454.0835	711.9627
PPP6R2	428.7579	791.6175	124.5716	519.3244
PPP6R3	635.2277	521.6368	261.1985	491.3608
PPPDE1	70.76586	116.055	92.42408	122.5073
PPPDE2	575.2848	321.9	96.44251	231.2547
PPRC1	883.3245	208.2882	361.6594	205.9543
PPT1	181.4936	490.4852	164.756	424.7807
PPT2	0	0	0	0
PPT2-EGFL	0	0	0	0
PPTC7	9.157935	17.10285	56.25813	32.40229
PPWD1	150.6897	141.7093	96.44251	114.9616
PPY	0	0	0	0
PPY2	0	0	0	0
PPYR1	0.83254	3.05408	0	17.75468
PQBP1	779.257	298.0782	458.1019	231.2547
PQLC1	342.1738	241.8831	152.7006	132.7162
PQLC2	203.1397	218.6721	80.36876	227.7038
PQLC3	49.95237	242.4939	28.12907	103.421
PRAC	0	0	0	0
PRADC1	191.4841	58.63833	56.25813	55.92724
PRAF2	73.26348	34.20569	56.25813	63.91685
PRAM1	3.330158	0	8.036876	1.775468
PRAME	0	0.610816	0	8.87734
PRAMEF1	0	0	0	0
PRAMEF10	0	0	0	0
PRAMEF11	0	0	0	0
PRAMEF12	0	0	4.018438	0.443867
PRAMEF13	0	0	0	0

PRAMEF14	0	0	4.018438	0
PRAMEF15	0	0	0	0
PRAMEF16	0	0	0	0
PRAMEF17	0	0	0	0
PRAMEF18	0	0	0	0
PRAMEF19	0	0	0	0
PRAMEF2	0	1.221632	0	0
PRAMEF20	0	0	0	0
PRAMEF21	0	0	0	0
PRAMEF22	0	0	0	0
PRAMEF3	0	0	0	0
PRAMEF4	0	0	0	0
PRAMEF5	0	0	0	0
PRAMEF6	0	0	0	0
PRAMEF7	0	0	0	0
PRAMEF8	0	0	0	0
PRAMEF9	0	0	0	0
PRAP1	623.5721	197.2936	0	151.8025
PRB1	0	0	0	1.331601
PRB2	0	0	0	0
PRB3	1.665079	4.275712	0	3.107069
PRB4	0	0	0	0
PRC1	402.1166	368.9328	8.036876	380.394
PRCC	560.2991	448.3389	1080.96	446.5302
PRCD	0	0	0	0
PRCP	122.3833	302.3539	116.5347	296.0593
PRDM1	36.63174	7.329791	48.22126	8.87734
PRDM10	35.7992	39.09222	40.18438	35.95323
PRDM11	14.98571	30.5408	40.18438	34.62163
PRDM12	0.83254	0.610816	16.07375	1.331601
PRDM13	0	0.610816	48.22126	0.443867
PRDM14	0	0	0	0
PRDM15	133.2063	56.19507	8.036876	66.58005
PRDM16	19.14841	1.221632	8.036876	2.219335
PRDM2	108.2301	108.1144	293.346	147.3639
PRDM4	166.5079	73.90873	120.5531	100.7578
PRDM5	9.990475	12.82714	80.36876	18.19855
PRDM6	4.162698	3.05408	12.05531	3.550936
PRDM7	1.665079	0	0	1.331601
PRDM8	34.13412	43.36793	136.6269	70.13099
PRDM9	0.83254	0	20.09219	2.663202
PRDX1	5988.457	3116.383	14249.38	1814.085
PRDX2	1632.61	660.292	2531.616	780.3182
PRDX3	168.173	351.2192	281.2907	242.3514
PRDX4	789.2475	834.9854	912.1854	569.4814
PRDX5	3834.677	3259.925	3359.414	2299.675
PRDX6	1307.087	866.137	952.3698	708.4118

PREB	730.1372	436.7334	699.2082	451.4128
PRELID1	589.438	378.7059	558.5629	263.2131
PRELID2	89.91427	81.23852	100.461	36.84096
PRELP	26.64127	6.10816	365.6779	49.26924
PREP	454.5666	164.9203	192.885	108.3036
PREPL	98.23967	225.3911	148.6822	176.6591
PREX1	4.162698	10.99469	192.885	31.95843
PREX2	0.83254	2.443264	40.18438	6.658005
PRF1	0	0.610816	0	0.443867
PRG1	0	0	0	0
PRG2	147.3595	2.443264	0	14.20374
PRG3	0	0	0	0
PRG4	2.497619	7.940607	44.20282	5.326404
PRH1	0	0.610816	0	0
PRH1-PRR4	0.83254	7.329791	4.018438	8.87734
PRH2	0.83254	9.162239	0	2.219335
PRHOXNB	0	0	0	0.443867
PRIC285	324.6904	326.7865	40.18438	452.7444
PRICKLE1	9.157935	50.69772	28.12907	46.16217
PRICKLE2	31.6365	6.10816	96.44251	26.63202
PRICKLE3	59.94285	30.5408	80.36876	48.3815
PRICKLE4	393.7912	92.23321	4.018438	187.3119
PRIM1	26.64127	39.09222	68.31345	22.63722
PRIM2	34.13412	54.36262	60.27657	37.28483
PRIMA1	0	0	8.036876	0.443867
PRINS	2.497619	0	0	1.775468
PRKAA1	172.3357	380.5383	92.42408	309.3753
PRKAA2	4.995237	19.54611	16.07375	33.73389
PRKAB1	655.2086	199.7368	112.5163	177.9907
PRKAB2	86.58412	133.1579	8.036876	119.4002
PRKACA	252.2595	103.2279	486.231	166.894
PRKACB	99.90475	205.845	72.33188	82.55927
PRKACG	0	1.221632	52.23969	7.545739
PRKAG1	327.1881	287.6943	470.1573	206.842
PRKAG2	60.77539	143.5417	265.2169	115.4054
PRKAG3	1.665079	0.610816	24.11063	0.887734
PRKAR1A	322.1928	456.2795	1125.163	418.1227
PRKAR1B	109.0627	164.9203	36.16594	154.4657
PRKAR2A	2.497619	12.82714	16.07375	19.53015
PRKAR2B	4.995237	1.221632	48.22126	6.214138
PRKCA	158.1825	291.97	60.27657	338.2267
PRKCB	24.97619	14.65958	663.0423	26.63202
PRKCD	837.5348	332.2839	751.4479	296.0593
PRKCDBP	546.9785	69.63302	1410.472	79.4522
PRKCE	23.31111	32.98406	48.22126	32.84616
PRKCG	8.325396	5.497344	56.25813	6.214138
PRKCH	29.97142	83.07097	208.9588	91.43661

PRKCI	282.2309	77.57363	40.18438	77.67673
PRKCQ	0.83254	0.610816	96.44251	1.775468
PRKCSH	1967.291	1141.004	510.3416	1084.811
PRKCZ	86.58412	142.9309	60.27657	99.87008
PRKD1	5.827777	37.87059	52.23969	29.29522
PRKD2	686.8452	414.1332	261.1985	280.0801
PRKD3	7.492856	8.551423	140.6453	24.41269
PRKDC	511.1793	547.2911	84.3872	476.2693
PRKG1	11.65555	14.65958	88.40564	16.42308
PRKG2	0	3.664896	0	7.989606
PRKRA	53.28253	109.9469	64.29501	62.14138
PRKRIP1	19.14841	16.49203	32.1475	20.41788
PRKRIR	41.62698	75.13036	24.11063	47.93764
PRKX	68.26825	18.32448	4.018438	15.53535
PRKY	282.2309	0	0	0
PRL	0	0	0	1.331601
PRLH	7.492856	0	8.036876	5.326404
PRLHR	0	0	0	0.443867
PRLR	8.325396	5.497344	4.018438	13.75988
PRM1	0.83254	0	0	0
PRM2	0	0	0	0
PRM3	0	0	0	0
PRMT1	1265.46	1732.274	1912.777	747.9159
PRMT10	23.31111	68.41139	172.7928	51.93244
PRMT2	639.3904	414.744	265.2169	297.3909
PRMT3	42.45952	45.8112	92.42408	33.73389
PRMT5	511.1793	398.8628	237.0878	360.8639
PRMT6	35.7992	87.34668	80.36876	95.87528
PRMT7	451.2365	199.7368	176.8113	179.3223
PRMT8	1.665079	2.443264	20.09219	1.331601
PRND	0.83254	1.832448	4.018438	3.550936
PRNP	105.7325	157.5905	305.4013	204.6227
PRNT	0	0	0	0
PRO0611	0	1.221632	0	0.443867
PRO1768	0	0	0	0
PROC	57.44523	204.6233	0	108.7474
PROCA1	20.81349	17.10285	0	10.65281
PROCR	382.1357	471.5499	28.12907	439.8722
PRODH	21.64603	4.275712	36.16594	11.09668
PRODH2	0	0	0	0
PROK1	0.83254	0	0	0.887734
PROK2	0	0	0	0
PROKR1	0	0	0	0
PROKR2	0	0	4.018438	0
PROL1	0	0	0	0
PROM1	358.8246	1230.794	60.27657	1753.719
PROM2	868.3388	532.6315	8.036876	906.3765

PROP1	0	0	8.036876	0.443867
PRORS1P	26.64127	21.37856	168.7744	19.97402
PROS1	212.2976	19.54611	160.7375	93.65594
PROSC	180.6611	182.634	72.33188	126.0582
PROSER1	233.9436	100.7846	4.018438	162.8992
PROX1	0	1.832448	48.22126	0.443867
PROX1-AS1	0	0	4.018438	0
PROX2	0	1.832448	20.09219	3.550936
PROZ	3.330158	1.832448	0	1.331601
PRPF18	53.28253	125.2173	48.22126	97.65074
PRPF19	1009.038	869.8019	1265.808	576.5833
PRPF3	396.2888	312.7378	462.1204	440.7599
PRPF31	1039.009	979.7488	522.3969	585.9045
PRPF38A	246.4317	249.2129	329.5119	211.7246
PRPF38B	441.246	244.3264	570.6182	325.3545
PRPF39	70.76586	97.73055	136.6269	133.604
PRPF4	166.5079	113.6118	56.25813	104.3087
PRPF40A	236.4412	472.1607	582.6735	430.551
PRPF40B	28.30635	28.09753	48.22126	61.69752
PRPF4B	131.5413	266.3158	642.9501	316.4772
PRPF6	1105.613	1096.415	956.3883	825.5927
PRPF8	493.696	684.1139	655.0054	802.9554
PRPH	88.2492	43.36793	1627.467	53.70791
PRPH2	0.83254	1.221632	4.018438	3.107069
PRPS1	115.723	219.8937	265.2169	165.1185
PRPS1L1	0.83254	7.329791	76.35032	6.658005
PRPS2	154.0198	45.20038	100.461	54.15178
PRPSAP1	306.3746	442.8416	301.3829	233.4741
PRPSAP2	78.25872	76.96281	261.1985	64.36072
PRR11	94.90951	220.5046	4.018438	150.0271
PRR12	233.1111	202.7909	261.1985	211.7246
PRR13	1083.134	373.8194	140.6453	290.289
PRR14	550.3087	230.2776	337.5488	230.8108
PRR14L	213.1301	156.9797	160.7375	218.8264
PRR15	395.4563	263.2617	12.05531	205.9543
PRR15L	576.9499	841.0936	32.1475	647.602
PRR16	0	0	28.12907	3.994803
PRR18	0	0.610816	0	0.887734
PRR19	8.325396	4.886528	0	9.765074
PRR20A	0	0	0	0
PRR20B	0	0	0	0
PRR20C	0	0	0	0
PRR20D	0	0	0	0
PRR20E	0	0	0	0
PRR21	0	0	0	0
PRR22	420.4325	33.59488	8.036876	62.14138
PRR23A	0	0.610816	0	0

PRR23B	0	0	0	0
PRR23C	0	0	0	0
PRR24	372.9777	103.8387	0	62.14138
PRR25	4.995237	0.610816	0	3.550936
PRR3	0	0	0	0
PRR4	0	0	0	1.331601
PRR5	444.5761	147.8175	32.1475	88.32954
PRR5-ARH	0	0	0	0
PRR5L	99.90475	5.497344	20.09219	29.73909
PRR7	467.0547	144.1526	160.7375	91.88047
PRR9	0	0	0	0
PRRC1	139.8666	145.985	429.9729	177.1029
PRRC2A	0	0	0	0
PRRC2B	901.6404	541.7938	196.9035	616.9752
PRRC2C	694.338	632.1945	309.4197	837.5771
PRRG1	33.30158	29.31917	4.018438	28.40749
PRRG2	183.9912	272.4239	28.12907	172.6643
PRRG3	0	0	0	2.663202
PRRG4	102.4024	37.87059	8.036876	26.18815
PRRT1	0	0	0	0
PRRT2	15.81825	7.329791	48.22126	24.41269
PRRT3	26.64127	23.21101	4.018438	16.86695
PRRT4	0	0	20.09219	0.887734
PRRX1	9.157935	21.37856	281.2907	48.82537
PRRX2	588.6055	14.65958	237.0878	24.85655
PRSS1	291.3889	8.551423	0	302.2734
PRSS12	277.2357	254.0994	36.16594	237.4689
PRSS16	49.11984	56.19507	0	75.90126
PRSS2	0	0	0	0
PRSS21	4.162698	1.221632	12.05531	1.775468
PRSS22	418.7674	434.2901	24.11063	655.5916
PRSS23	55.78015	670.6759	2218.178	676.8972
PRSS27	0	8.551423	20.09219	7.989606
PRSS3	1616.792	812.3852	36.16594	511.7787
PRSS30P	1.665079	5.497344	0	14.20374
PRSS33	0	6.718975	28.12907	3.994803
PRSS35	0	0	0	0.443867
PRSS36	26.64127	18.93529	24.11063	25.74429
PRSS37	0	0	0	0
PRSS38	0	1.221632	0	0
PRSS41	0.83254	0.610816	0	0
PRSS42	0	0	0	0
PRSS45	0	3.05408	0	11.09668
PRSS46	0	1.832448	4.018438	6.214138
PRSS48	0.83254	1.832448	0	0
PRSS50	5.827777	5.497344	0	48.3815
PRSS53	43.29206	33.59488	20.09219	29.73909

PRSS54	2.497619	0	0	0
PRSS55	0	0	0	0.443867
PRSS56	0	0	0	0.443867
PRSS57	1.665079	0	0	0
PRSS58	0	0	0	0
PRSS8	2056.373	1826.34	68.31345	1324.055
PRTFDC1	74.92856	171.6393	0	118.5125
PRTG	0	2.443264	20.09219	0.443867
PRTN3	0	0	4.018438	0
PRUNE	78.25872	147.8175	36.16594	123.8389
PRUNE2	7.492856	3.664896	20.09219	11.98441
PRX	13.32063	29.92998	144.6638	23.52495
PRY	0	0	0	0
PRY2	0	0	0	0
PSAP	4210.153	5695.248	12035.22	6686.413
PSAPL1	0.83254	0	0	0
PSAT1	233.1111	9.162239	12.05531	15.97921
PSCA	970.7411	1006.014	48.22126	820.2662
PSD	23.31111	12.21632	140.6453	13.75988
PSD2	2.497619	7.940607	0	8.433473
PSD3	35.7992	78.18444	32.1475	102.5333
PSD4	487.8682	573.5562	112.5163	542.4055
PSEN1	321.3603	601.6537	108.4978	512.2225
PSEN2	122.3833	247.3805	397.8254	185.9803
PSENEEN	989.8896	1111.685	1739.984	728.8296
PSG1	0	0	0	0
PSG10P	0	0	0	0
PSG11	0	0.610816	0	0
PSG2	0	0	0	0
PSG3	0	0	0	0
PSG4	0	0	0	3.107069
PSG5	0	0	0	0
PSG6	0	0	0	0
PSG7	0	0	0	0
PSG8	0	0	0	0
PSG9	0	0.610816	0	0.887734
PSIMCT-1	3.330158	13.43795	196.9035	25.30042
PSIP1	104.9	134.9903	112.5163	86.1102
PSKH1	156.5174	203.4017	96.44251	200.6279
PSKH2	0	0	0	0
PSMA1	701.8309	470.3283	1687.744	394.1539
PSMA2	929.1142	1297.984	2981.681	639.1685
PSMA3	570.2896	692.6653	2607.966	373.736
PSMA4	588.6055	733.59	1948.942	433.2142
PSMA5	1276.283	1162.994	2796.833	687.55
PSMA6	616.0793	650.519	1635.504	333.788
PSMA7	1397.001	2128.694	4472.522	1094.576



PSMA8	3.330158	1.832448	12.05531	0.443867
PSMB1	2662.462	1118.404	4954.734	667.576
PSMB10	3378.446	757.4118	1856.518	563.2672
PSMB11	0	0	4.018438	0
PSMB2	1126.426	900.9535	2137.809	705.7486
PSMB3	2163.77	1545.364	3017.847	893.0604
PSMB4	2683.275	2486.021	6405.39	1709.776
PSMB5	1153.067	1252.784	3725.092	906.8203
PSMB6	1103.947	819.715	6280.819	600.9959
PSMB7	326.3555	345.111	2045.385	213.0562
PSMB8	9.990475	0	16.07375	2.663202
PSMB9	0	0	0	0
PSMC1	10.82301	10.38387	24.11063	8.433473
PSMC2	458.7293	1481.84	1201.513	933.0085
PSMC3	1498.571	688.3896	3367.451	538.4107
PSMC3IP	15.81825	45.8112	8.036876	48.3815
PSMC4	1097.287	1089.085	2752.63	753.2423
PSMC5	1111.44	1640.652	2997.755	1070.607
PSMC6	204.8047	278.5321	329.5119	150.9148
PSMD1	884.9896	887.5156	964.4251	624.9648
PSMD10	99.07221	218.0613	325.4935	132.2724
PSMD11	291.3889	377.4843	795.6507	342.2215
PSMD12	155.6849	299.9106	859.9457	196.1892
PSMD13	3029.612	940.6566	2346.768	715.5136
PSMD14	346.3365	679.2273	1502.896	415.4595
PSMD2	2001.425	991.9651	2760.667	925.0189
PSMD3	925.784	910.1158	1502.896	712.4066
PSMD4	1449.451	1368.839	1784.186	848.2299
PSMD5	122.3833	113.6118	285.3091	125.1705
PSMD6	318.0301	268.1482	1072.923	187.3119
PSMD7	755.9459	784.8985	884.0564	474.05
PSMD8	1201.355	1506.272	2455.266	716.8452
PSMD9	530.3277	322.5108	562.5813	188.1996
PSME1	1623.452	1315.698	4745.775	956.5334
PSME2	1784.965	1163.604	2089.588	929.4575
PSME3	314.7	463.6093	454.0835	442.5354
PSME4	626.9023	544.8478	462.1204	451.8566
PSMF1	685.1801	704.8816	212.9772	468.2797
PSMG1	157.35	90.40076	261.1985	72.79419
PSMG2	268.0777	473.3824	196.9035	279.6362
PSMG3	1143.077	511.253	132.6085	440.7599
PSMG4	303.0444	201.5693	490.2494	108.3036
PSORS1C1	2.497619	0.610816	0	0.443867
PSORS1C2	0	0	0	0
PSORS1C3	0	0	0	0
PSPC1	249.7619	242.4939	124.5716	189.0873
PSPH	58.27777	92.84402	140.6453	76.34513

PSPN	14.98571	0.610816	0	1.331601
PSRC1	331.3508	143.5417	20.09219	56.81498
PSTK	39.9619	8.551423	148.6822	10.65281
PSTPIP1	145.6944	37.87059	924.2408	68.35552
PSTPIP2	3.330158	1.832448	8.036876	8.87734
PTAFR	94.90951	115.4442	28.12907	163.3431
PTAR1	35.7992	42.1463	48.22126	53.70791
PTBP1	2960.511	994.4084	377.7332	1064.393
PTBP2	59.94285	51.91936	373.7147	110.079
PTBP3	273.9055	260.2076	458.1019	246.3462
PTCD1	0	0.610816	0	0.443867
PTCD2	5.827777	14.04877	44.20282	15.09148
PTCD3	442.9111	293.8025	32.1475	278.7485
PTCH1	52.44999	31.15161	104.4794	46.60604
PTCH2	2.497619	9.162239	36.16594	29.29522
PTCHD1	0	20.76774	56.25813	35.50936
PTCHD2	0	0.610816	40.18438	3.107069
PTCHD3	0	12.21632	0	13.75988
PTCHD4	0	0.610816	60.27657	0.443867
PTCRA	0	0	0	0
PTDSS1	833.3721	464.8309	221.0141	278.7485
PTDSS2	281.3984	188.7421	96.44251	146.4761
PTEN	269.7428	157.5905	1498.877	202.4034
PTENP1	1.665079	4.886528	40.18438	5.326404
PTER	34.13412	83.07097	52.23969	80.7838
PTF1A	0	0	0	0
PTGDR	0	0	0	0
PTGDR2	4.162698	2.443264	4.018438	2.219335
PTGDS	24.97619	0	4.018438	11.54054
PTGER1	2.497619	13.43795	96.44251	17.75468
PTGER2	29.13889	0	36.16594	5.770271
PTGER3	0	0.610816	8.036876	0
PTGER4	32.46904	47.64364	16.07375	21.74948
PTGES	28.30635	461.166	40.18438	579.6903
PTGES2	1148.072	501.4799	152.7006	409.6893
PTGES3	465.3896	403.7493	936.2961	257.8867
PTGFR	0	0	0	2.219335
PTGFRN	459.5618	382.3708	385.7701	484.2589
PTGIR	4.162698	0	0	0
PTGIS	11.65555	941.2674	144.6638	430.1071
PTGR1	218.1254	302.9647	289.3275	175.7713
PTGR2	43.29206	86.73587	112.5163	71.01872
PTGS1	29.97142	32.98406	136.6269	62.58525
PTGS2	4.995237	31.15161	16.07375	39.50416
PTH	0	0	0	0
PTH1R	18.31587	20.15693	393.8069	35.50936
PTH2	0	0	0	0.443867

PTH2R	0	1.832448	0	1.331601
PTHLH	0	133.1579	0	49.26924
PTK2	450.4039	528.9666	321.475	507.7839
PTK2B	233.1111	205.845	413.8991	311.1508
PTK6	668.5293	441.6199	8.036876	280.524
PTK7	14.15317	343.2786	68.31345	391.4907
PTMA	1838.247	1878.259	40.18438	1144.733
PTMS	2053.043	1186.815	4066.659	641.3878
PTN	4.162698	21.98937	28.12907	59.03431
PTOV1	1595.978	1332.8	1940.906	928.1259
PTP4A1	342.1738	258.986	204.9403	383.945
PTP4A2	1146.407	791.6175	2342.749	900.6062
PTP4A3	47.45476	127.0497	1470.748	109.6352
PTPDC1	46.62222	20.15693	32.1475	29.29522
PTPLA	3.330158	86.12505	140.6453	53.26404
PTPLAD1	174.8333	473.3824	88.40564	410.577
PTPLAD2	0	1.832448	36.16594	7.101872
PTPLB	8.325396	23.21101	84.3872	23.96882
PTPMT1	406.2793	214.3964	301.3829	159.7921
PTPN1	154.0198	226.0019	249.1432	212.1684
PTPN11	123.2159	181.4123	104.4794	183.7609
PTPN12	169.0055	354.8841	297.3644	363.971
PTPN13	29.13889	95.28729	64.29501	100.3139
PTPN14	84.0865	113.6118	52.23969	133.604
PTPN18	1710.036	601.6537	48.22126	537.523
PTPN2	229.7809	263.2617	277.2722	281.8556
PTPN20A	0	0	0	0
PTPN20B	0	0	0	0
PTPN21	39.9619	80.01689	40.18438	94.09981
PTPN22	24.97619	5.497344	180.8297	19.53015
PTPN23	522.0023	188.1313	425.9544	299.6102
PTPN3	303.8769	171.6393	28.12907	194.8576
PTPN4	25.80873	60.47078	48.22126	40.83577
PTPN5	0	3.664896	164.756	7.545739
PTPN6	404.6142	521.6368	896.1117	710.6311
PTPN7	9.990475	2.443264	36.16594	44.83057
PTPN9	110.7278	302.3539	301.3829	317.8088
PTPRA	372.9777	569.2805	1354.214	479.3764
PTPRB	69.93332	81.84934	208.9588	120.7318
PTPRC	15.81825	7.329791	80.36876	34.62163
PTPRCAP	225.6182	15.2704	76.35032	39.94803
PTPRD	0.83254	8.551423	40.18438	7.989606
PTPRE	79.09126	94.06566	124.5716	134.4917
PTPRF	1341.221	2354.085	225.0325	1926.827
PTPRG	22.47857	23.82182	112.5163	50.60084
PTPRH	970.7411	842.926	36.16594	551.2828
PTPRJ	238.9389	186.2989	204.9403	138.9304

PTPRK	355.4944	569.2805	100.461	371.9606
PTPRM	105.7325	295.6349	241.1063	803.8432
PTPRN	23.31111	15.2704	24.11063	15.97921
PTPRN2	106.5651	1.832448	24.11063	3.550936
PTPRO	19.14841	5.497344	76.35032	6.658005
PTPRQ	0	0.610816	4.018438	0
PTPRR	18.31587	95.28729	40.18438	18.19855
PTPRS	9.157935	20.76774	132.6085	47.0499
PTPRT	1.665079	1.832448	44.20282	2.219335
PTPRU	507.0166	329.2298	80.36876	585.0167
PTPRVP	11.65555	7.940607	32.1475	12.87214
PTPRZ1	0	3.664896	16.07375	5.326404
PTRF	31.6365	195.4611	2869.165	281.4117
PTRH1	378.8055	65.35731	100.461	30.62682
PTRH2	179.8285	486.8203	289.3275	273.866
PTRHD1	293.8865	117.2767	128.59	110.9668
PTS	223.1206	196.6827	68.31345	118.5125
PTTG1	1013.201	361.603	24.11063	162.0115
PTTG1IP	2575.045	2839.073	76.35032	1786.121
PTTG2	0	0	0	0.443867
PTTG3P	0	0.610816	4.018438	0.443867
PTX3	1.665079	0.610816	92.42408	15.09148
PTX4	0	0	4.018438	0.443867
PUF60	2535.916	1330.968	2656.188	926.7943
PUM1	182.3262	267.5374	365.6779	304.4928
PUM2	298.8817	259.5968	474.1757	307.156
PURA	70.76586	47.03283	454.0835	63.91685
PURB	288.0587	277.9213	1535.043	324.4668
PURG	3.330158	8.551423	132.6085	7.101872
PUS1	671.0269	222.9478	200.9219	161.1237
PUS10	2.497619	14.65958	56.25813	15.97921
PUS3	49.11984	62.91404	132.6085	60.80978
PUS7	64.10555	105.6712	44.20282	74.56966
PUS7L	2.497619	7.940607	8.036876	5.770271
PUSL1	323.8579	172.2501	60.27657	142.9252
PVALB	3.330158	0.610816	3005.792	0
PVR	599.4285	872.2452	12.05531	600.9959
PVRIG	0.83254	17.71366	0	41.27963
PVRL1	263.915	133.7687	128.59	184.2048
PVRL2	1693.386	1837.945	76.35032	1613.9
PVRL3	58.27777	87.34668	120.5531	69.24325
PVRL3-AS1	0	0.610816	0	1.331601
PVRL4	536.988	288.3051	72.33188	432.7703
PVT1	355.4944	38.48141	4.018438	68.35552
PWP1	284.7285	227.8344	168.7744	132.2724
PWP2	434.5857	180.8015	28.12907	142.0374
PWRN1	0	0	0	0

PWRN2	0	0	0	0
PWWP2A	104.9	76.96281	112.5163	97.65074
PWWP2B	596.0983	570.5021	32.1475	400.3681
PXDC1	135.704	353.0516	60.27657	366.6342
PXDN	3.330158	7.329791	100.461	29.29522
PXDNL	0	0.610816	0	1.331601
PXK	10.82301	9.773055	140.6453	15.09148
PXMP2	192.3166	158.2013	40.18438	70.13099
PXMP4	118.2206	126.4389	36.16594	95.43141
PXN	1247.144	584.5509	229.051	794.9658
PXT1	0	0	0	0
PYCARD	788.415	758.6334	8.036876	509.5593
PYCR1	972.4062	864.3046	148.6822	623.6332
PYCR2	842.5301	791.0067	353.6225	652.0406
PYCRL	435.4182	367.7112	12.05531	245.9023
PYDC1	0	1.832448	0	3.994803
PYDC2	0	0	0	0
PYGB	4783.772	6872.29	397.8254	4202.089
PYGL	118.2206	84.2926	667.0607	173.552
PYGM	20.81349	3.05408	1707.836	11.98441
PYGO1	0	0	8.036876	1.331601
PYGO2	323.0254	390.3114	68.31345	442.5354
PYHIN1	0	0.610816	0	0
PYROXD1	11.65555	51.91936	16.07375	38.17256
PYROXD2	76.59364	143.5417	140.6453	133.1601
PYY	0	0	20.09219	0
PYY2	9.990475	1.832448	0	4.882537
PZP	0	0.610816	4.018438	6.214138
ProSAPiP1	595.2658	395.8087	72.33188	535.3036
QARS	2843.123	1245.454	1366.269	986.2725
QDPR	173.1682	255.3211	884.0564	213.5
QKI	64.93809	65.35731	1426.546	117.1809
QPCT	4.162698	9.773055	261.1985	52.82018
QPCTL	147.3595	155.7581	20.09219	112.7422
QPRT	4.995237	205.2342	64.29501	513.998
QRFPP	0.83254	0.610816	0	0.887734
QRFPR	0	0	0	0
QRICH1	378.8055	255.9319	409.8807	330.2371
QRICH2	15.81825	7.940607	20.09219	8.87734
QRSL1	78.25872	68.41139	56.25813	47.93764
QSER1	35.7992	57.4167	100.461	61.69752
QSOX1	4131.894	2660.103	168.7744	3853.21
QSOX2	257.2547	76.96281	16.07375	107.4158
QTRT1	791.7451	445.2848	180.8297	431.8826
QTRTD1	154.8524	74.51955	8.036876	101.2017
R3HCC1	142.3643	241.8831	192.885	195.7454
R3HDM1	60.77539	71.46547	212.9772	99.87008

R3HDM2	154.8524	135.6011	610.8026	180.21
R3HDM4	1766.649	441.0091	128.59	438.5406
R3HDML	7.492856	3.664896	0	1.331601
RAB10	228.9484	461.7769	908.167	378.6186
RAB11A	625.2372	1335.244	3246.898	1115.438
RAB11B	1337.059	531.4099	1362.25	418.1227
RAB11FIP1	1321.24	279.1429	32.1475	493.5801
RAB11FIP2	22.47857	18.32448	16.07375	21.30562
RAB11FIP3	15.81825	150.2607	20.09219	190.8628
RAB11FIP4	724.3094	466.0526	60.27657	280.524
RAB11FIP5	358.8246	210.1207	265.2169	255.2235
RAB12	119.0532	95.8981	413.8991	89.66114
RAB13	517.0071	442.8416	172.7928	383.945
RAB14	380.4706	243.1047	1322.066	259.2183
RAB15	116.5555	166.7528	12.05531	157.5728
RAB17	422.9301	350.6084	4.018438	427.8878
RAB18	119.0532	252.267	289.3275	225.4844
RAB19	6.660317	0.610816	56.25813	5.770271
RAB1A	522.8349	891.1805	2415.081	888.6218
RAB1B	1333.728	1409.763	739.3926	1206.874
RAB20	342.1738	376.2626	112.5163	206.3982
RAB21	135.704	74.51955	458.1019	78.1206
RAB22A	163.1778	288.9159	128.59	257.8867
RAB23	3.330158	11.6055	20.09219	19.08628
RAB24	775.9269	473.3824	1293.937	441.2038
RAB25	1635.94	1531.316	32.1475	1177.579
RAB26	278.9008	20.76774	56.25813	51.93244
RAB27A	72.43094	104.4495	16.07375	140.262
RAB27B	100.7373	153.9256	4.018438	194.8576
RAB28	38.29682	76.96281	305.4013	68.79939
RAB2A	760.1086	555.8425	2652.169	569.4814
RAB2B	27.47381	38.48141	20.09219	60.36591
RAB30	3.330158	11.6055	140.6453	12.42828
RAB31	42.45952	55.58425	36.16594	117.6248
RAB32	171.5032	351.83	56.25813	164.6747
RAB33A	2.497619	2.443264	8.036876	5.770271
RAB33B	8.325396	19.54611	20.09219	26.18815
RAB34	43.29206	513.6962	779.577	291.1768
RAB35	335.5134	178.3583	216.9957	194.8576
RAB36	345.5039	52.53017	0	25.74429
RAB37	13.32063	13.43795	16.07375	19.97402
RAB38	39.12936	174.0825	24.11063	94.98754
RAB39A	1.665079	0	36.16594	1.331601
RAB39B	0	0	12.05531	0
RAB3A	8.325396	8.551423	40.18438	11.98441
RAB3B	70.76586	53.7518	8.036876	41.7235
RAB3C	0	0	8.036876	0.887734

RAB3D	412.1071	153.3148	64.29501	203.735
RAB3GAP1	225.6182	305.408	96.44251	280.524
RAB3GAP2	103.2349	164.9203	132.6085	165.1185
RAB3IL1	49.11984	26.26509	699.2082	61.25365
RAB3IP	238.1063	135.6011	16.07375	101.2017
RAB40A	2.497619	4.275712	0	12.42828
RAB40AL	0	0.610816	0	2.219335
RAB40B	153.1873	101.3954	40.18438	77.67673
RAB40C	429.5904	224.1695	152.7006	207.7298
RAB41	0.83254	1.221632	0	1.775468
RAB42	0	12.82714	0	15.53535
RAB43	3.330158	6.718975	20.09219	15.53535
RAB4A	113.2254	228.4452	12.05531	156.6851
RAB4B	0	0	0	0
RAB4B-EG1	0	0	0	0
RAB5A	92.41189	116.6658	208.9588	112.2984
RAB5B	640.2229	268.759	325.4935	404.3629
RAB5C	409.6095	1098.247	2937.478	854.0001
RAB6A	132.3738	284.0294	184.8482	265.8763
RAB6B	81.58888	12.82714	24.11063	16.42308
RAB6C	0	1.221632	8.036876	0.443867
RAB7A	1804.946	1036.555	4858.292	1190.007
RAB7L1	129.0436	74.51955	855.9273	117.6248
RAB8A	329.6857	314.5702	333.5304	289.8452
RAB8B	29.13889	78.79526	225.0325	90.54887
RAB9A	105.7325	144.1526	381.7516	119.4002
RAB9B	0.83254	5.497344	8.036876	2.663202
RAB9BP1	0	0	0	0
RABAC1	2358.585	1222.854	4749.794	788.3078
RABEP1	182.3262	114.8334	333.5304	98.53848
RABEP2	439.5809	229.6668	100.461	184.2048
RABEPK	170.6706	112.3901	128.59	47.0499
RABGAP1	286.3936	169.196	144.6638	190.419
RABGAP1L	193.1492	235.775	172.7928	252.1165
RABGEF1	34.13412	86.12505	76.35032	82.55927
RABGGTA	441.246	178.9691	216.9957	234.8057
RABGGTB	717.6491	282.197	638.9316	283.631
RABIF	98.23967	159.423	44.20282	108.3036
RABL2A	16.65079	18.93529	0	17.31081
RABL2B	39.9619	62.91404	0	39.50416
RABL3	226.4508	91.62239	28.12907	61.25365
RABL5	230.6135	541.1829	148.6822	314.7017
RAC1	2441.006	2344.312	1101.052	1508.704
RAC2	247.2643	338.392	1257.771	379.9502
RAC3	69.93332	127.0497	325.4935	52.37631
RACGAP1	224.7857	150.8715	32.1475	87.88567
RACGAP1P	0	0.610816	0	0

RAD1	73.26348	116.6658	80.36876	118.0686
RAD17	51.61745	105.6712	52.23969	107.4158
RAD18	132.3738	51.91936	4.018438	57.70271
RAD21	365.4849	482.5446	337.5488	418.5666
RAD21-AS1	0	1.221632	8.036876	2.219335
RAD21L1	0.83254	0	0	0
RAD23A	2167.933	527.1342	944.3329	559.7163
RAD23B	315.5325	312.127	582.6735	305.8244
RAD50	140.6992	201.5693	84.3872	208.1736
RAD51	81.58888	128.2714	20.09219	118.5125
RAD51AP1	34.96666	79.40607	0	70.57486
RAD51AP2	0	0	0	0
RAD51B	9.990475	20.76774	80.36876	17.31081
RAD51C	22.47857	105.6712	8.036876	54.59564
RAD51D	12.48809	50.08691	60.27657	32.84616
RAD51L3-F	1.665079	0	0	0
RAD52	38.29682	81.23852	4.018438	90.99274
RAD54B	29.13889	42.75712	16.07375	35.06549
RAD54L	177.3309	133.1579	60.27657	118.5125
RAD54L2	14.15317	11.6055	64.29501	19.53015
RAD9A	428.7579	210.7315	64.29501	233.4741
RAD9B	0.83254	1.832448	0	2.663202
RADIL	0.83254	10.99469	44.20282	14.20374
RAE1	388.796	254.7103	305.4013	209.5052
RAET1E	9.157935	2.443264	0	10.20894
RAET1G	9.157935	1.221632	0	9.765074
RAET1K	1.665079	0	0	1.331601
RAET1L	0	1.221632	0	1.331601
RAF1	590.2706	309.6837	586.692	397.7048
RAG1	4.162698	0	0	3.107069
RAG2	0	0	0	0
RAI1	238.1063	296.2457	128.59	342.2215
RAI14	111.5603	313.9594	116.5347	308.0437
RAI2	3.330158	1.832448	128.59	3.550936
RALA	332.1833	376.2626	594.7288	284.5188
RALB	541.1507	507.5881	156.7191	352.4304
RALBP1	228.1158	397.0304	1048.812	388.8275
RALGAPA1	8.325396	17.71366	36.16594	18.64241
RALGAPA2	469.5523	516.7503	24.11063	470.9429
RALGAPB	234.7762	331.0622	156.7191	365.7464
RALGDS	667.6967	136.212	779.577	147.3639
RALGPS1	167.3405	68.41139	0	71.01872
RALGPS2	31.6365	57.4167	60.27657	67.91165
RALY	2698.261	2322.933	4010.401	1727.53
RALYL	23.31111	1.832448	4.018438	1.331601
RAMP1	488.7007	1986.984	28.12907	1864.241
RAMP2	13.32063	22.60019	1354.214	33.29003



RAMP3	0.83254	0	4.018438	3.550936
RAN	1567.672	1194.145	1474.767	564.5988
RANBP1	498.6912	623.0323	208.9588	224.1528
RANBP10	233.1111	139.8769	277.2722	201.5156
RANBP17	21.64603	1.221632	12.05531	3.107069
RANBP2	175.6659	367.7112	446.0466	289.4013
RANBP3	536.988	379.9275	136.6269	349.7672
RANBP3L	0	1.221632	12.05531	0
RANBP6	25.80873	63.52486	100.461	130.9408
RANBP9	72.43094	166.1419	972.462	175.3275
RANGAP1	2902.233	1597.284	393.8069	1387.084
RANGRF	22.47857	17.10285	0	22.63722
RAP1A	138.2016	205.2342	1209.55	151.3587
RAP1B	45.78968	40.92467	888.0748	47.0499
RAP1GAP	382.1357	969.3649	20.09219	697.759
RAP1GAP2	188.1539	349.9975	16.07375	386.1643
RAP1GDS1	149.0246	216.2288	184.8482	154.9096
RAP2A	45.78968	55.58425	216.9957	65.24845
RAP2B	372.9777	377.4843	538.4707	293.84
RAP2C	82.42142	130.1038	482.2126	170.0011
RAPGEF1	181.4936	144.1526	104.4794	166.0063
RAPGEF2	57.44523	125.8281	221.0141	153.578
RAPGEF3	446.2412	108.1144	192.885	140.262
RAPGEF4	136.5365	7.329791	32.1475	12.42828
RAPGEF5	56.61269	109.3361	176.8113	177.1029
RAPGEF6	14.98571	13.43795	48.22126	21.30562
RAPGEFL1	1288.771	177.1366	60.27657	101.2017
RAPH1	134.0389	207.0666	168.7744	173.9959
RAPSN	23.31111	6.718975	92.42408	6.658005
RARA	281.3984	291.3592	313.4382	400.3681
RARB	47.45476	8.551423	4.018438	12.42828
RARG	522.0023	190.5746	602.7657	210.8368
RARRES1	522.8349	399.4736	12.05531	1788.34
RARRES2	185.6563	30.5408	0	67.46779
RARRES3	489.5333	594.3239	40.18438	838.9087
RARS	596.0983	636.4702	490.2494	352.4304
RARS2	144.0293	116.6658	257.18	81.22766
RASA1	68.26825	174.6934	450.0651	216.6071
RASA2	14.98571	14.65958	20.09219	19.97402
RASA3	228.1158	48.86528	337.5488	195.3015
RASA4	21.64603	11.6055	124.5716	24.85655
RASA4P	20.81349	1.832448	0	2.219335
RASAL1	630.2325	60.47078	48.22126	53.26404
RASAL2	31.6365	127.0497	92.42408	158.0167
RASAL3	8.325396	7.940607	76.35032	15.97921
RASD1	6.660317	8.551423	24.11063	21.74948
RASD2	0.83254	12.82714	8.036876	22.63722

RASEF	16.65079	21.37856	4.018438	51.04471
RASGEF1A	59.11031	161.8662	28.12907	90.54887
RASGEF1B	11.65555	20.15693	84.3872	48.3815
RASGEF1C	0	1.221632	4.018438	0.443867
RASGRF1	0	0.610816	20.09219	1.775468
RASGRF2	0.83254	86.12505	48.22126	69.24325
RASGRP1	5.827777	21.37856	20.09219	53.26404
RASGRP2	21.64603	7.940607	277.2722	12.87214
RASGRP3	51.61745	26.8759	8.036876	56.81498
RASGRP4	3.330158	5.497344	100.461	7.545739
RASIP1	24.14365	25.65427	566.5998	51.04471
RASL10A	33.30158	3.05408	8.036876	6.658005
RASL10B	0	0.610816	8.036876	1.331601
RASL11A	31.6365	76.35199	36.16594	59.03431
RASL11B	33.30158	21.98937	8.036876	46.16217
RASL12	6.660317	9.162239	20.09219	13.75988
RASSF1	602.7587	262.04	514.3601	235.6934
RASSF10	8.325396	80.01689	12.05531	52.82018
RASSF2	0.83254	1.832448	52.23969	10.65281
RASSF3	152.3547	115.4442	381.7516	134.9356
RASSF4	67.43571	141.7093	32.1475	177.9907
RASSF5	300.5468	72.6871	140.6453	94.54367
RASSF6	31.6365	52.53017	0	53.70791
RASSF7	5392.359	1489.78	88.40564	1051.965
RASSF8	5.827777	39.09222	56.25813	51.48857
RASSF9	12.48809	10.38387	8.036876	14.64761
RAVER1	725.9745	183.2448	76.35032	230.8108
RAVER2	130.7087	182.634	32.1475	73.23806
RAX	0.83254	0	16.07375	0
RAX2	0	0	0	0.443867
RB1	48.2873	103.2279	72.33188	90.54887
RB1CC1	50.78491	94.06566	309.4197	96.31914
RBAK	33.30158	86.12505	28.12907	90.105
RBAK-LOC	0	0	0	0
RBBP4	219.7904	290.1376	518.3785	283.631
RBBP5	57.44523	75.13036	128.59	83.447
RBBP6	377.1404	212.564	847.8904	303.605
RBBP7	670.1944	550.3452	2286.491	427.8878
RBBP8	115.723	171.6393	100.461	125.1705
RBBP9	44.95714	50.69772	44.20282	47.93764
RBCK1	1963.961	993.7976	1310.011	828.2559
RBFA	127.3786	241.8831	28.12907	96.76301
RBFOX1	0	1.832448	28.12907	0
RBFOX2	237.2738	402.5277	273.2538	369.2974
RBFOX3	0.83254	1.221632	44.20282	2.663202
RBKS	24.97619	48.86528	84.3872	33.73389
RBL1	8.325396	12.82714	44.20282	22.19335

RBL2	125.7135	199.7368	120.5531	217.4948
RBM10	695.1705	370.1545	630.8948	342.2215
RBM11	8.325396	0	16.07375	1.331601
RBM12	108.2301	231.4992	176.8113	199.7402
RBM12B	53.28253	54.36262	104.4794	98.09461
RBM14	448.7388	223.5586	269.2353	224.5967
RBM14-RB	0	0	0	0
RBM15	39.12936	61.69241	345.5857	60.80978
RBM15B	298.8817	310.9053	237.0878	305.8244
RBM17	678.5198	728.7034	1748.021	615.6436
RBM18	59.11031	67.18975	88.40564	55.92724
RBM19	241.4365	150.2607	56.25813	102.9771
RBM20	0	0	12.05531	0.443867
RBM22	355.4944	248.6021	160.7375	219.7142
RBM23	513.6769	328.0082	4.018438	322.2475
RBM24	1.665079	0.610816	20.09219	3.107069
RBM25	336.346	435.5118	1973.053	687.1061
RBM26	44.1246	86.73587	168.7744	88.7734
RBM26-AS	2.497619	5.497344	0	3.994803
RBM27	44.95714	64.74649	144.6638	73.68193
RBM28	233.1111	202.1801	180.8297	162.0115
RBM3	1934.822	922.9429	1948.942	642.7194
RBM33	588.6055	293.8025	72.33188	385.7204
RBM34	147.3595	265.0941	20.09219	172.2204
RBM38	569.4571	80.01689	120.5531	126.5021
RBM39	1055.66	969.3649	2523.579	1129.198
RBM4	124.0484	160.6446	12.05531	197.077
RBM41	120.7182	249.2129	0	152.6903
RBM42	961.5832	1065.874	1912.777	613.8681
RBM43	9.990475	33.59488	0	24.85655
RBM44	1.665079	4.275712	0	1.775468
RBM45	59.11031	88.56831	381.7516	73.68193
RBM46	0	0.610816	16.07375	1.775468
RBM47	484.538	505.7556	100.461	567.262
RBM48	18.31587	54.97344	12.05531	31.95843
RBM4B	64.10555	74.51955	136.6269	83.447
RBM5	1464.437	706.1032	1362.25	770.5531
RBM6	734.2999	775.7363	1213.568	917.0293
RBM7	10.82301	39.70304	40.18438	20.86175
RBM8A	365.4849	362.2139	261.1985	244.1269
RBMS1	213.1301	294.4133	1141.236	313.3701
RBMS2	154.8524	105.0603	84.3872	104.7526
RBMS3	1.665079	8.551423	116.5347	11.98441
RBMX	337.1785	517.3611	192.885	390.603
RBMX2	166.5079	329.2298	16.07375	134.4917
RBMXL1	46.62222	52.53017	96.44251	47.93764
RBMXL2	0	0	4.018438	0

RBMXL3	0	0	0	0.443867
RBM1A1	0	0	0	0
RBM1A3F	0	0	0	0.443867
RBM1B	0	0	0	0
RBM1D	0	0	0	0
RBM1E	0	0	0	0
RBM1F	0	0	0	0
RBM1J	0	0	0	0
RBM2EP	0	0	0	0
RBM2FP	0	0	0	0
RBM3AP	0	0	0	0
RBP1	359.6571	410.4683	1760.076	456.2953
RBP2	7.492856	0	8.036876	0.887734
RBP3	0.83254	0	16.07375	0
RBP4	4.162698	35.42733	28.12907	1043.087
RBP5	4.162698	6.10816	0	24.41269
RBP7	1.665079	4.275712	2877.202	3.107069
RBPJ	188.9865	180.8015	478.1941	201.0718
RBPJL	1.665079	0.610816	16.07375	0.443867
RBPMS	394.6238	413.5224	377.7332	563.7111
RBPMS2	0.83254	2.443264	72.33188	1.331601
RBX1	886.6547	800.1689	1796.242	408.8015
RC3H1	77.42618	98.95218	188.8666	133.1601
RC3H2	22.47857	40.92467	112.5163	38.17256
RCAN1	212.2976	21.98937	92.42408	38.17256
RCAN2	7.492856	11.6055	184.8482	42.61123
RCAN3	84.91904	126.4389	28.12907	97.20688
RCAN3AS	3.330158	4.275712	0	3.107069
RCBTB1	19.98095	40.92467	136.6269	55.48338
RCBTB2	147.3595	79.40607	610.8026	95.43141
RCC1	407.9444	499.0366	136.6269	468.2797
RCC2	1789.96	629.1404	281.2907	924.575
RCCD1	295.5516	230.2776	36.16594	260.9938
RCE1	340.5087	368.322	562.5813	291.1768
RCHY1	50.78491	61.0816	245.1247	67.02392
RCL1	94.90951	91.62239	108.4978	73.23806
RCN1	970.7411	238.829	140.6453	225.4844
RCN2	53.28253	369.5437	257.18	301.8296
RCN3	153.1873	173.4717	2362.842	262.7693
RCOR1	159.0151	170.4177	88.40564	142.4813
RCOR2	34.96666	24.43264	20.09219	23.96882
RCOR3	167.3405	120.9416	120.5531	138.0426
RCSD1	0	0	20.09219	4.882537
RCVRN	0	0	4.018438	0
RD3	0	0.610816	4.018438	0.443867
RDBP	0	0	0	0
RDH10	196.4793	784.8985	60.27657	467.8358

RDH11	291.3889	888.1264	16.07375	430.1071
RDH12	1.665079	6.10816	4.018438	6.214138
RDH13	397.1214	215.0072	16.07375	138.9304
RDH14	21.64603	58.63833	16.07375	31.51456
RDH16	6.660317	7.940607	4.018438	25.30042
RDH5	4.162698	7.329791	16.07375	3.107069
RDH8	0	0	0	0
RDM1	42.45952	37.25977	36.16594	10.65281
RDX	1.665079	226.6127	76.35032	229.9231
REC8	532.8253	117.8875	8.036876	142.0374
RECK	0	4.275712	36.16594	12.87214
RECQL	14.98571	135.6011	16.07375	131.8285
RECQL4	1894.028	627.9188	16.07375	735.9315
RECQL5	704.3285	687.1679	56.25813	517.1051
REEP1	108.2301	0.610816	24.11063	10.65281
REEP2	2.497619	0	24.11063	1.775468
REEP3	129.8762	402.5277	92.42408	316.0333
REEP4	333.0158	217.4505	20.09219	243.2391
REEP5	1470.265	916.8347	2415.081	632.5105
REEP6	182.3262	564.3939	0	515.3296
REG1A	0	2.443264	0	2.663202
REG1B	0	0	4.018438	1.331601
REG1P	0	0	4.018438	0
REG3A	0	0	0	0
REG3G	0	0.610816	4.018438	0
REG4	437.0833	12.82714	164.756	4.43867
REL	0.83254	3.664896	0	4.43867
RELA	828.3769	552.1776	425.9544	566.3743
RELB	370.4801	273.6455	293.346	241.0198
RELL1	69.93332	38.48141	52.23969	55.03951
RELL2	44.95714	20.15693	4.018438	41.27963
RELN	0.83254	30.5408	68.31345	38.17256
RELT	133.2063	45.20038	24.11063	69.24325
REM1	1.665079	3.664896	144.6638	5.326404
REM2	50.78491	4.886528	8.036876	7.989606
REN	1.665079	0.610816	12.05531	6.214138
RENBP	134.8714	40.92467	1836.426	104.3087
REP15	20.81349	9.773055	0	1.331601
REPIN1	919.9562	627.9188	100.461	672.9024
REPS1	169.0055	119.1091	249.1432	106.5281
REPS2	149.0246	78.79526	80.36876	57.25885
RER1	1808.276	1607.668	1056.849	1172.697
RERE	672.692	281.5862	478.1941	381.2818
REREP3	0	0	0	0
RERG	14.98571	153.9256	32.1475	99.42621
RERGL	0	0	24.11063	2.663202
RESP18	0	0	0	0

REST	44.95714	41.53548	120.5531	59.47818
RET	3.330158	1.221632	36.16594	4.43867
RETN	0	0	0	0
RETNLB	60.77539	0.610816	1334.121	1.331601
RETSAT	420.4325	436.7334	60.27657	361.7516
REV1	233.1111	158.2013	168.7744	182.8732
REV3L	29.13889	30.5408	337.5488	35.95323
REXO1	491.1984	128.2714	132.6085	185.9803
REXO1L1	0	0	0	0
REXO1L2P	0	0	0	1.331601
REXO2	332.1833	434.901	1936.887	336.0073
REXO4	385.4658	222.9478	60.27657	177.9907
RFC1	227.2833	226.0019	80.36876	260.1061
RFC2	233.1111	345.111	285.3091	220.158
RFC3	58.27777	50.69772	156.7191	62.14138
RFC4	392.9587	205.845	80.36876	151.8025
RFC5	86.58412	44.58956	40.18438	47.93764
RFESD	11.65555	12.82714	128.59	7.101872
RFFL	9.990475	18.32448	16.07375	26.18815
RFK	64.93809	65.96812	132.6085	57.70271
RFNG	579.4475	420.2414	32.1475	287.6258
RFPL1	0	0	0	0
RFPL1-AS1	0	0.610816	0	0
RFPL2	0	1.221632	0	0.443867
RFPL3	0	0	0	0.443867
RFPL3-AS1	0.83254	0	0	1.331601
RFPL4A	0	0	0	0
RFPL4B	0	0.610816	0	0
RFT1	133.2063	175.3042	56.25813	119.8441
RFTN1	4.995237	3.05408	48.22126	10.65281
RFTN2	8.325396	9.162239	192.885	13.31601
RFWD2	175.6659	364.0463	626.8763	232.1425
RFWD3	133.2063	116.055	24.11063	150.9148
RFX1	189.819	67.18975	164.756	98.09461
RFX2	139.8666	59.24915	28.12907	42.16737
RFX3	9.157935	16.49203	20.09219	19.53015
RFX4	0	0	16.07375	0.443867
RFX5	157.35	177.7474	20.09219	297.3909
RFX6	0	0	0	0
RFX7	9.990475	31.76243	160.7375	59.47818
RFX8	0	1.221632	0	0
RFXANK	352.9968	212.564	56.25813	118.0686
RFXAP	12.48809	23.21101	120.5531	14.64761
RG9MTD1	144.8619	92.84402	24.11063	80.33993
RG9MTD2	29.13889	47.03283	8.036876	29.73909
RG9MTD3	44.95714	71.46547	40.18438	49.26924
RGAG1	0	0	12.05531	0.887734

RGAG4	0	0.610816	20.09219	4.882537
RGL1	85.75158	59.24915	1028.72	182.8732
RGL2	0	0	0	0.443867
RGL3	7.492856	325.5649	36.16594	340.0021
RGL4	34.13412	34.81651	0	95.87528
RGMA	2.497619	2.443264	184.8482	5.326404
RGMB	55.78015	46.42201	148.6822	63.91685
RGN	12.48809	4.275712	4.018438	4.882537
RGNEF	199.8095	262.04	44.20282	276.0853
RGP1	34.96666	51.30854	20.09219	67.91165
RGPD1	4.162698	1.832448	0	3.550936
RGPD2	0	0	0	0
RGPD3	0	1.221632	0	0
RGPD4	0.83254	1.832448	0	2.663202
RGPD5	0	0	0	0
RGPD6	0	0	0	0
RGPD8	0	0	0	0
RGR	0.83254	0	0	0
RGS1	6.660317	0.610816	285.3091	9.765074
RGS10	191.4841	114.8334	1241.697	130.4969
RGS11	18.31587	3.05408	8.036876	11.98441
RGS12	414.6047	177.1366	152.7006	218.8264
RGS13	0	0	8.036876	0
RGS14	524.4999	414.744	148.6822	346.6601
RGS16	55.78015	4.886528	0	5.770271
RGS17	0	10.99469	0	7.545739
RGS18	0	0	32.1475	0.887734
RGS19	74.09602	123.9956	216.9957	118.0686
RGS2	102.4024	347.5543	458.1019	209.0614
RGS20	0	4.886528	4.018438	5.770271
RGS21	0	0	0	0
RGS22	1.665079	0	8.036876	0.443867
RGS3	609.419	432.4577	321.475	392.3784
RGS4	1.665079	3.664896	56.25813	20.41788
RGS5	11.65555	61.69241	265.2169	79.4522
RGS6	0.83254	0	16.07375	0
RGS7	0	0	12.05531	0
RGS7BP	0	0	4.018438	0.887734
RGS8	0	0	4.018438	0.887734
RGS9	0	1.221632	40.18438	0.887734
RGS9BP	0	0.610816	0	0.443867
RGSL1	0	0	4.018438	0
RHAG	0	0	0	0.887734
RHBDD1	129.0436	127.0497	16.07375	122.9512
RHBDD2	1358.705	566.2264	48.22126	759.9003
RHBDD3	363.8198	280.9753	36.16594	222.3774
RHBDF1	452.069	545.4586	843.872	604.5469

RHBDF2	671.0269	291.3592	184.8482	403.4751
RHBDL1	112.3928	20.76774	116.5347	40.83577
RHBDL2	205.6373	160.6446	8.036876	123.8389
RHBDL3	2.497619	1.221632	60.27657	0.443867
RHBG	0.83254	1.221632	4.018438	0.443867
RHCE	1.665079	4.886528	0	0.887734
RHCG	1.665079	2.443264	28.12907	7.545739
RHD	1.665079	0.610816	0	0
RHEB	181.4936	471.5499	144.6638	239.2443
RHEBL1	34.13412	5.497344	56.25813	7.545739
RHO	0	0	0	1.331601
RHOA	3278.541	2415.166	8073.042	1835.834
RHOB	517.8396	927.8294	1651.578	591.2309
RHOBTB1	217.2928	263.2617	48.22126	173.9959
RHOBTB2	49.95237	177.1366	92.42408	250.341
RHOBTB3	0	19.54611	60.27657	158.4605
RHOC	3768.074	3104.167	5312.375	1827.401
RHOD	389.6285	428.7928	76.35032	346.6601
RHOF	23.31111	17.10285	0	11.54054
RHOG	562.7968	215.618	2390.971	260.5499
RHOH	13.32063	10.38387	132.6085	11.09668
RHOJ	2.497619	9.773055	200.9219	36.3971
RHOQ	40.79444	51.30854	84.3872	87.4418
RHOT1	50.78491	85.51423	245.1247	98.09461
RHOT2	3223.593	941.8782	72.33188	812.7205
RHOU	128.2111	65.96812	32.1475	158.9044
RHOV	111.5603	310.2945	474.1757	367.5219
RHOXF1	3.330158	0.610816	0	1.331601
RHOXF2	0	0	0	0
RHOXF2B	0	0	0	0
RHPN1	2325.283	672.5084	32.1475	831.3629
RHPN2	206.4698	385.4249	16.07375	213.9439
RIBC1	54.11507	9.773055	0	20.86175
RIBC2	58.27777	28.70835	4.018438	19.53015
RIC3	0	0.610816	4.018438	0
RIC8A	600.261	407.4142	377.7332	373.736
RIC8B	94.90951	47.03283	124.5716	70.13099
RICTOR	35.7992	85.51423	52.23969	104.7526
RIF1	29.13889	111.7793	44.20282	116.2932
RIIAD1	37.46428	0.610816	12.05531	0.887734
RILP	124.8809	70.85465	52.23969	64.80458
RILPL1	39.9619	42.75712	237.0878	56.81498
RILPL2	168.173	34.81651	229.051	52.82018
RIMBP2	0	0	0	0
RIMBP3	0	0	0	0
RIMBP3B	0	0	0	0
RIMBP3C	0	0	0	0



RIMKLA	59.11031	14.65958	0	13.31601
RIMKLB	19.98095	64.74649	12.05531	78.1206
RIMS1	0	0	28.12907	4.43867
RIMS2	3.330158	0	16.07375	3.550936
RIMS3	29.13889	1.221632	80.36876	5.326404
RIMS4	0.83254	1.221632	16.07375	0.443867
RIN1	712.6539	220.5046	16.07375	154.9096
RIN2	178.996	260.8184	618.8395	227.7038
RIN3	47.45476	133.1579	184.8482	154.4657
RING1	0	0	0	0
RINL	79.9238	126.4389	60.27657	51.04471
RINT1	39.9619	76.35199	52.23969	67.02392
RIOK1	60.77539	103.8387	28.12907	85.66633
RIOK2	67.43571	113.001	60.27657	66.13619
RIOK3	332.1833	252.8778	1056.849	234.3618
RIPK1	181.4936	216.8397	36.16594	190.8628
RIPK2	145.6944	207.0666	72.33188	162.4553
RIPK3	230.6135	249.2129	40.18438	159.7921
RIPK4	251.427	403.1385	16.07375	314.2578
RIPPLY1	0	1.221632	4.018438	1.331601
RIPPLY2	0	0	0	0
RIT1	146.527	171.0285	819.7614	186.4241
RIT2	0	0	8.036876	0
RLBP1	0	1.221632	12.05531	0.887734
RLF	64.93809	91.62239	281.2907	117.6248
RLIM	136.5365	222.9478	498.2863	181.0977
RLN1	0	0.610816	0	0.443867
RLN2	0	0	0	0.887734
RLN3	0	0	4.018438	0
RLTPR	18.31587	7.329791	124.5716	32.40229
RMI1	18.31587	17.71366	104.4794	23.96882
RMI2	238.1063	109.3361	0	92.32434
RMND1	124.8809	92.23321	188.8666	51.04471
RMND5A	210.6325	199.126	265.2169	174.8836
RMND5B	243.9341	192.407	405.8622	192.6383
RMRP	218.1254	1315.698	112.5163	3.107069
RMST	0	0	0	0
RN45S	95693.76	380300.7	684448.5	2670.304
RN5-8S1	0	0	0	0
RNASE1	174.8333	37.25977	32.1475	134.0478
RNASE10	0	0	0	0
RNASE11	0	0	0	0
RNASE12	0	0	0	0
RNASE13	0	0	0	2.219335
RNASE2	0	0	0	0
RNASE3	0	0	0	0
RNASE4	61.60793	361.603	747.4295	260.9938

RNASE6	0	0	12.05531	0
RNASE7	0	0	0	3.107069
RNASE8	0	0	0	0.443867
RNASE9	0	0	4.018438	0
RNASEH1	79.9238	120.3307	8.036876	73.68193
RNASEH2A	483.7055	259.5968	216.9957	154.0219
RNASEH2B	97.40713	89.78995	144.6638	43.94283
RNASEH2C	369.6476	329.2298	180.8297	218.3826
RNASEK	12.48809	6.718975	0	4.43867
RNASEK-C1	0	0	0	0
RNASEL	61.60793	56.80588	12.05531	64.36072
RNASET2	3190.292	1596.673	192.885	1401.288
RND1	79.9238	76.35199	16.07375	67.02392
RND2	1.665079	7.329791	466.1388	7.545739
RND3	133.2063	249.2129	237.0878	308.0437
RNF10	847.5253	498.4258	4183.194	664.4689
RNF103	339.6761	473.3824	373.7147	351.9865
RNF103-Cf	0	0	0	0
RNF11	45.78968	106.282	389.7885	137.5988
RNF111	34.13412	63.52486	285.3091	109.6352
RNF112	31.6365	2.443264	24.11063	11.09668
RNF113A	190.6516	197.2936	132.6085	118.0686
RNF113B	0	1.832448	36.16594	2.663202
RNF114	353.8293	337.1704	184.8482	435.8774
RNF115	44.95714	139.266	196.9035	121.1757
RNF121	190.6516	251.6562	233.0694	201.0718
RNF122	33.30158	12.82714	28.12907	23.96882
RNF123	354.6619	148.4283	357.641	255.6674
RNF125	29.13889	2.443264	0	2.663202
RNF126	1353.709	290.1376	269.2353	200.184
RNF126P1	3.330158	17.71366	8.036876	4.882537
RNF128	308.8722	951.0404	176.8113	290.289
RNF13	57.44523	122.774	196.9035	119.8441
RNF130	152.3547	115.4442	3102.234	160.6799
RNF133	3.330158	1.221632	0	0
RNF135	163.1778	229.056	28.12907	185.9803
RNF138	36.63174	24.43264	52.23969	23.96882
RNF138P1	2.497619	2.443264	12.05531	0.443867
RNF139	101.5698	111.7793	281.2907	100.7578
RNF14	67.43571	108.7252	100.461	76.34513
RNF141	93.24443	178.9691	116.5347	114.5177
RNF144A	9.157935	48.86528	36.16594	41.27963
RNF144B	37.46428	126.4389	40.18438	151.3587
RNF145	546.9785	316.4027	582.6735	398.1487
RNF146	81.58888	109.3361	401.8438	120.288
RNF148	8.325396	1.221632	4.018438	0.887734
RNF149	229.7809	274.2564	132.6085	250.7849

RNF150	0	0	16.07375	0.443867
RNF151	0.83254	1.221632	4.018438	0.887734
RNF152	0	3.05408	0	4.882537
RNF157	124.0484	84.2926	24.11063	97.65074
RNF165	0	1.832448	40.18438	0.887734
RNF166	123.2159	123.9956	405.8622	141.5936
RNF167	502.0214	387.8681	851.9089	553.5022
RNF168	108.2301	72.6871	4.018438	52.37631
RNF169	13.32063	30.5408	28.12907	30.62682
RNF17	0	0.610816	4.018438	0.443867
RNF170	128.2111	123.9956	4.018438	111.8545
RNF175	0	1.832448	0	2.219335
RNF180	0	1.832448	28.12907	5.326404
RNF181	638.5579	507.5881	52.23969	356.8691
RNF182	0	0	0	0.887734
RNF183	599.4285	28.70835	0	77.67673
RNF185	121.5508	159.423	8.036876	91.43661
RNF186	53.28253	8.551423	4.018438	6.214138
RNF187	530.3277	687.7788	703.2267	565.0427
RNF19A	223.9531	350.6084	285.3091	374.1799
RNF19B	453.7341	286.4727	1305.992	267.6518
RNF2	24.97619	37.87059	80.36876	47.93764
RNF20	108.2301	161.8662	233.0694	180.6539
RNF207	450.4039	244.3264	8.036876	305.3805
RNF208	48.2873	40.92467	16.07375	55.03951
RNF212	0	32.37325	12.05531	49.26924
RNF213	1083.134	1106.799	68.31345	1498.939
RNF214	119.8857	113.001	96.44251	100.3139
RNF215	213.1301	249.2129	68.31345	136.711
RNF216	167.3405	186.2989	56.25813	155.3535
RNF216P1	35.7992	59.24915	0	42.61123
RNF217	0	10.99469	40.18438	21.30562
RNF219	40.79444	61.69241	8.036876	50.60084
RNF220	717.6491	389.7006	1113.107	327.5739
RNF222	0	5.497344	16.07375	1.331601
RNF223	4.162698	12.21632	4.018438	9.765074
RNF224	0.83254	3.05408	0	2.219335
RNF24	21.64603	64.13568	8.036876	81.22766
RNF25	358.8246	284.0294	554.5445	246.7901
RNF26	262.25	304.1863	92.42408	253.0042
RNF31	586.9404	364.0463	506.3232	457.6269
RNF32	34.13412	71.46547	0	41.27963
RNF34	164.0103	125.8281	196.9035	112.7422
RNF38	54.11507	111.1685	96.44251	103.8649
RNF39	0	4.275712	0	6.658005
RNF4	310.5373	266.9266	241.1063	387.4959
RNF40	667.6967	630.9729	458.1019	747.4721

RNF41	183.1587	114.8334	273.2538	133.1601
RNF43	128.2111	274.8672	64.29501	294.7277
RNF44	268.9103	166.7528	333.5304	306.7121
RNF5	0	0	0	0
RNF5P1	5.827777	9.162239	116.5347	9.765074
RNF6	47.45476	84.2926	140.6453	101.6455
RNF7	884.9896	725.6494	1342.158	479.3764
RNF8	97.40713	91.62239	36.16594	52.82018
RNFT1	9.990475	28.09753	44.20282	44.3867
RNFT2	55.78015	25.04345	0	14.64761
RNGTT	24.14365	29.31917	100.461	31.51456
RNH1	1226.331	649.2974	470.1573	523.7631
RNLS	48.2873	22.60019	20.09219	16.42308
RNMT	122.3833	169.8068	40.18438	217.4948
RNMTL1	106.5651	109.3361	64.29501	66.58005
RNPC3	41.62698	35.42733	96.44251	39.50416
RNPEP	709.3237	1037.165	916.2039	757.681
RNPEPL1	1775.807	1469.012	727.3373	1148.728
RNPS1	898.3102	564.3939	108.4978	407.0261
RNU11	0	1.832448	0	0.443867
RNU12	0.83254	2.443264	4.018438	0.887734
RNU4ATAC	1.665079	0.610816	0	0.887734
RNU5D-1	0	0	0	0
RNU5E-1	0	0	0	0
RNU5F-1	0	0	0	0
RNU6ATAC	3.330158	4.886528	0	0
RNU86	8.325396	6.718975	0	3.107069
RNY4	0	0	0	0.443867
RNY5	0	0	0	0
ROBO1	5.827777	3.664896	72.33188	32.40229
ROBO2	0	4.275712	16.07375	2.219335
ROBO3	75.7611	10.38387	8.036876	19.08628
ROBO4	3.330158	9.162239	160.7375	19.53015
ROCK1	39.9619	72.6871	253.1616	82.55927
ROCK1P1	0.83254	4.275712	12.05531	4.43867
ROCK2	43.29206	54.97344	229.051	77.23286
ROGDI	296.3841	287.6943	216.9957	267.2079
ROM1	38.29682	45.8112	156.7191	35.95323
ROMO1	1461.107	995.0192	3186.621	706.6363
ROPN1	0	0	4.018438	0
ROPN1B	2.497619	0.610816	0	1.331601
ROPN1L	20.81349	0.610816	4.018438	1.775468
ROR1	14.15317	26.26509	36.16594	16.86695
ROR2	3.330158	3.664896	80.36876	15.09148
RORA	11.65555	3.664896	184.8482	20.41788
RORB	0	0	12.05531	0.443867
RORC	84.91904	65.96812	48.22126	173.552

ROS1	0	21.98937	12.05531	79.00833
RP1	0	0	0	0.887734
RP1-177G6	0	0	0	0
RP11-165H	0.83254	0	0	0.443867
RP1L1	0	5.497344	0	11.54054
RP2	40.79444	26.26509	44.20282	32.40229
RP9	63.27301	48.25446	216.9957	54.59564
RP9P	64.10555	43.97875	36.16594	20.86175
RPA1	197.3119	285.8619	237.0878	202.8472
RPA2	233.1111	305.408	96.44251	205.9543
RPA3	289.7238	379.3167	40.18438	182.4293
RPA4	0	1.221632	0	1.775468
RPAIN	136.5365	141.0985	44.20282	99.87008
RPAP1	99.07221	135.6011	84.3872	273.4221
RPAP2	42.45952	48.25446	28.12907	27.51976
RPAP3	74.09602	70.85465	56.25813	39.94803
RPE	42.45952	146.5958	60.27657	106.5281
RPE65	0	56.80588	4.018438	65.24845
RPF1	137.369	215.0072	321.475	107.4158
RPF2	248.9293	109.9469	245.1247	56.37111
RPGR	62.44047	27.48672	20.09219	18.19855
RPGRIP1	0.83254	4.275712	0	3.107069
RPGRIP1L	22.47857	42.75712	28.12907	41.7235
RPH3A	3.330158	0	32.1475	0.443867
RPH3AL	54.11507	70.85465	8.036876	48.3815
RPIA	252.2595	238.2182	241.1063	122.5073
RPL10	1265.46	4209.133	72.33188	1164.263
RPL10A	2151.282	3287.411	5698.145	1536.668
RPL10L	268.9103	186.9097	7341.686	231.6986
RPL11	14784.24	8691.911	40136.16	4458.2
RPL12	3435.891	2380.961	3725.092	1138.075
RPL13	14705.15	8643.657	15563.41	4480.838
RPL13A	4602.279	3686.274	28.12907	1135.412
RPL13AP1	209.8	54.97344	2684.317	49.26924
RPL13AP2	16.65079	10.38387	8.036876	11.54054
RPL13AP3	150.6897	40.31385	1711.855	34.17776
RPL13AP5	0	0	0	0
RPL13AP6	2.497619	3.05408	12.05531	0.443867
RPL13P5	14.15317	22.60019	88.40564	19.08628
RPL14	3651.519	1453.131	5388.725	785.6446
RPL15	2424.355	1292.487	2041.367	763.0074
RPL17	35.7992	53.14099	0	37.28483
RPL17-C18	0	0	0	0
RPL18	11595.61	7351.17	8093.134	3240.229
RPL18A	735.1324	307.8512	313.4382	112.2984
RPL19	9992.973	8063.381	10021.98	3849.215
RPL19P12	352.9968	176.5258	6831.345	261.8815

RPL21	0	0	0	0
RPL21P28	0	0	0	0
RPL21P44	0.83254	0.610816	4.018438	2.219335
RPL22	954.9229	1142.837	835.8351	477.6009
RPL22L1	735.1324	273.0347	4954.734	192.6383
RPL23	4792.098	5886.433	22820.71	2834.979
RPL23A	1061.488	993.7976	24.11063	418.5666
RPL23AP3	0	0.610816	4.018438	0
RPL23AP5	30.80396	7.940607	0	7.101872
RPL23AP6	0	1.832448	4.018438	5.770271
RPL23AP7	15.81825	23.21101	0	14.64761
RPL23AP8	21.64603	32.98406	0	7.101872
RPL23P8	147.3595	65.96812	3098.216	95.43141
RPL24	7396.282	2553.822	4243.471	1166.039
RPL26	2190.412	1878.259	2294.528	718.6207
RPL26L1	154.0198	87.34668	518.3785	55.03951
RPL27	3606.561	4372.221	6923.769	1665.389
RPL27A	9169.591	2651.552	8768.232	1483.404
RPL28	16250.34	8282.664	15880.87	4080.469
RPL29	3748.926	1654.09	48.22126	816.2714
RPL29P2	0	0	8.036876	0
RPL3	8302.085	7524.031	880.0379	2857.172
RPL30	11276.75	8278.999	33911.6	3906.917
RPL31	4627.255	4358.172	6473.704	2030.248
RPL31P11	27.47381	11.6055	341.5672	12.87214
RPL32	6875.944	3214.114	6992.082	1371.993
RPL32P3	70.76586	20.76774	0	28.85136
RPL34	6047.567	4079.64	13120.2	1714.658
RPL35	8377.013	2448.15	6397.353	1390.192
RPL35A	11747.97	3689.939	11991.02	1854.92
RPL36	9390.214	2968.566	7574.756	1693.353
RPL36A	21.64603	23.82182	0	17.31081
RPL36A-HM	0	0	0	0
RPL36AL	2407.704	1363.952	3845.645	784.7569
RPL37	11147.7	8880.653	14249.38	4587.366
RPL37A	12863.57	8545.926	31609.03	4584.259
RPL38	5907.701	2947.187	4143.01	1349.8
RPL39	274.7381	379.3167	12.05531	90.54887
RPL39L	292.2214	183.2448	8.036876	69.68712
RPL3L	4.162698	0	192.885	1.331601
RPL4	3066.243	4325.799	3250.916	2788.373
RPL41	2339.436	2084.104	1993.145	1150.059
RPL5	4303.397	3507.305	7337.668	1594.814
RPL6	1003.21	591.8807	40.18438	329.3493
RPL7	29.13889	9.773055	4.018438	14.64761
RPL7A	3505.824	1774.42	229.051	833.5823
RPL7L1	14.98571	37.25977	0	29.73909

RPL8	40429.79	13782.45	27100.35	7592.345
RPL9	1321.24	389.0898	8.036876	242.7953
RPLP0	6950.873	4328.242	9278.573	2220.223
RPLPOP2	37.46428	11.6055	357.641	18.64241
RPLP1	13193.25	8374.287	26433.29	7274.537
RPLP2	17952.88	4661.137	25794.35	2815.892
RPN1	4757.131	2881.83	1936.887	2221.998
RPN2	1965.626	2997.274	3399.599	3036.494
RPP14	96.57459	53.14099	112.5163	63.02912
RPP21	0	0	0	0
RPP25	230.6135	247.3805	40.18438	218.3826
RPP30	167.3405	87.34668	192.885	65.69232
RPP38	155.6849	180.8015	16.07375	145.5884
RPP40	37.46428	26.26509	28.12907	25.30042
RPPH1	288.0587	1698.068	265.2169	11.98441
RPRD1A	74.09602	93.45484	64.29501	85.22247
RPRD1B	114.8905	190.5746	68.31345	232.5863
RPRD2	85.75158	168.5852	136.6269	155.3535
RPRM	0	0	0	0.887734
RPRML	0	0	8.036876	0
RPS10	11.65555	5.497344	12.05531	7.101872
RPS10-NUI	0	0	0	0
RPS10P7	14.15317	9.162239	12.05531	3.994803
RPS11	10522.47	11423.48	10066.19	3896.265
RPS12	9309.458	4420.475	22326.44	2242.86
RPS13	3321	1880.702	10206.83	921.9118
RPS14	10568.26	6762.343	42350.32	3568.247
RPS15	2134.631	705.4924	3106.253	557.0531
RPS15A	3430.896	3437.061	68.31345	1295.204
RPS15AP10	0	1.832448	0	0
RPS16	9179.581	8751.16	4074.696	3153.231
RPS16P5	0	0	0	0
RPS17	0	0	0	0
RPS17L	0	0	0	0
RPS18	1.665079	0	0	0.443867
RPS19	21253.07	12503.4	28735.85	4856.349
RPS19BP1	1367.863	1365.784	180.8297	702.6415
RPS2	3367.623	2369.355	28.12907	1066.169
RPS20	10211.1	3705.21	4355.987	2369.362
RPS21	7367.143	6648.121	29861.01	2881.141
RPS23	4631.418	3766.291	8261.909	1564.631
RPS24	9401.037	9389.463	16326.91	4103.107
RPS25	1944.812	2878.776	341.5672	1374.212
RPS26	54.94761	9.773055	0	18.64241
RPS26P11	0	0	0	0
RPS27	53.28253	60.47078	44.20282	45.7183
RPS27A	3236.081	1618.662	1772.131	866.8723

RPS27L	432.088	631.5837	341.5672	463.841
RPS28	581.9452	250.4345	0	142.9252
RPS29	3345.977	2270.403	40.18438	984.497
RPS2P32	39.9619	25.65427	1133.2	24.41269
RPS3	12602.15	9077.947	26674.39	4597.131
RPS3A	209.8	266.3158	2210.141	109.6352
RPS4X	7088.242	10865.19	21627.23	3320.569
RPS4Y1	863.3435	0	16.07375	3.550936
RPS4Y2	24.14365	11.6055	498.2863	16.86695
RPS5	5806.964	9269.132	23600.29	2570.878
RPS6	18056.12	16765.68	22459.05	6795.604
RPS6KA1	989.8896	558.2858	538.4707	424.7807
RPS6KA2	139.0341	120.3307	52.23969	181.0977
RPS6KA3	91.57935	179.5799	803.6876	210.8368
RPS6KA4	1393.671	452.6146	450.0651	454.9637
RPS6KA5	8.325396	1.221632	4.018438	7.101872
RPS6KA6	4.162698	26.8759	0	6.658005
RPS6KB1	30.80396	81.84934	241.1063	93.21207
RPS6KB2	755.9459	467.885	265.2169	399.0364
RPS6KC1	28.30635	75.74118	128.59	63.02912
RPS6KL1	75.7611	67.18975	16.07375	86.1102
RPS7	1273.786	943.7106	522.3969	407.4699
RPS7P5	49.11984	28.09753	1020.683	35.50936
RPS8	8148.065	7085.465	12674.15	3245.112
RPS9	9050.538	5566.977	20144.43	2537.144
RPSA	3579.088	862.4721	20.09219	392.3784
RPSAP52	0	1.832448	0	1.775468
RPSAP58	20.81349	8.551423	401.8438	10.65281
RPSAP9	9.157935	4.275712	4.018438	2.219335
RPTN	0	0.610816	12.05531	2.663202
RPTOR	102.4024	133.7687	24.11063	152.6903
RPUSD1	587.7729	293.1917	16.07375	256.5551
RPUSD2	41.62698	106.8928	20.09219	85.22247
RPUSD3	158.1825	155.1473	28.12907	82.1154
RPUSD4	202.3071	323.7325	72.33188	159.3483
RQCD1	28.30635	56.80588	188.8666	72.35032
RRAD	44.95714	15.88121	60.27657	26.63202
RRAGA	325.523	764.7416	602.7657	420.7859
RRAGB	44.1246	40.31385	140.6453	40.83577
RRAGC	14.15317	26.8759	450.0651	56.81498
RRAGD	2.497619	8.551423	76.35032	11.09668
RRAS	877.4967	643.8	1040.775	361.7516
RRAS2	65.77063	53.14099	176.8113	66.13619
RRBP1	3140.339	2745.007	1543.08	2722.236
RREB1	83.25396	122.1632	84.3872	211.2807
RRH	0	0.610816	0	2.663202
RRM1	392.1261	342.0569	253.1616	253.8919



RRM2	213.9627	415.9657	64.29501	241.4637
RRM2B	26.64127	30.5408	52.23969	41.7235
RRN3	97.40713	140.4877	0	109.6352
RRN3P1	19.98095	14.04877	0	11.54054
RRN3P2	4.995237	1.832448	0	0.443867
RRN3P3	34.13412	29.31917	0	18.19855
RRNAD1	227.2833	359.7706	124.5716	295.6154
RRP1	903.3054	345.111	337.5488	278.7485
RRP12	865.8412	284.0294	152.7006	233.4741
RRP15	61.60793	193.6287	56.25813	93.65594
RRP1B	121.5508	76.35199	32.1475	89.21727
RRP36	362.9873	417.7981	136.6269	305.8244
RRP7A	899.9753	511.253	24.11063	258.7745
RRP7B	70.76586	41.53548	100.461	18.19855
RRP8	228.9484	105.6712	72.33188	61.25365
RRP9	460.3944	216.2288	546.5076	158.9044
RRS1	337.1785	212.564	128.59	135.3794
RS1	0	0	8.036876	0
RSAD1	65.77063	343.2786	24.11063	186.4241
RSAD2	42.45952	43.97875	4.018438	46.16217
RSBN1	30.80396	39.70304	345.5857	38.17256
RSBN1L	34.96666	78.79526	40.18438	48.82537
RSC1A1	22.47857	23.82182	28.12907	23.96882
RSF1	69.10078	125.8281	369.6963	129.1653
RSG1	15.81825	23.21101	0	18.64241
RSL1D1	634.3952	882.6291	28.12907	411.9086
RSL24D1	194.8143	238.829	112.5163	160.236
RSPH1	649.3809	140.4877	4.018438	79.00833
RSPH10B	0	0	0	0
RSPH10B2	0	0	0	0
RSPH3	42.45952	44.58956	108.4978	49.71311
RSPH4A	32.46904	3.05408	0	0.887734
RSPH6A	0	2.443264	24.11063	0
RSPH9	41.62698	3.05408	20.09219	3.994803
RSPO1	0	0	20.09219	0
RSPO2	0	0	0	1.331601
RSPO3	0	0	20.09219	2.663202
RSPO4	2.497619	0.610816	4.018438	3.107069
RSPRY1	11.65555	64.74649	92.42408	79.00833
RSRC1	27.47381	34.81651	104.4794	47.0499
RSRC2	304.7095	257.7643	659.0238	286.2942
RSU1	214.7952	295.6349	249.1432	285.8504
RTBDN	6.660317	0	0	0.443867
RTCD1	109.0627	181.4123	192.885	136.711
RTDR1	6.660317	8.551423	0	3.107069
RTEL1	239.7714	74.51955	0	83.00313
RTEL1-TNF	54.11507	15.2704	0	14.64761

RTF1	182.3262	280.9753	755.4664	340.0021
RTKN	754.2809	485.5987	132.6085	343.9969
RTKN2	17.48333	51.91936	0	35.06549
RTL1	0	0	0	0
RTN1	0.83254	0	44.20282	0.887734
RTN2	98.23967	71.46547	466.1388	51.48857
RTN3	835.8697	1205.751	221.0141	1032.435
RTN4	407.9444	1294.319	892.0932	874.418
RTN4IP1	107.3976	44.58956	12.05531	31.51456
RTN4R	120.7182	60.47078	8.036876	22.63722
RTN4RL1	2.497619	1.221632	32.1475	10.65281
RTN4RL2	9.157935	5.497344	48.22126	11.54054
RTP1	0	0	0	0
RTP2	0	0	8.036876	0
RTP3	0	0	16.07375	0.443867
RTP4	471.2174	117.8875	8.036876	113.63
RTTN	15.81825	45.20038	24.11063	35.50936
RUFY1	235.6087	361.603	450.0651	256.5551
RUFY2	14.15317	28.70835	24.11063	27.96362
RUFY3	248.9293	142.9309	180.8297	174.4397
RUFY4	25.80873	1.221632	20.09219	1.775468
RUNDC1	56.61269	155.1473	56.25813	113.63
RUNDC3A	14.15317	5.497344	76.35032	19.97402
RUNDC3B	0	9.162239	20.09219	4.882537
RUNX1	653.5436	240.6615	293.346	308.0437
RUNX1-IT1	0	1.221632	12.05531	1.331601
RUNX1T1	6.660317	4.275712	160.7375	4.882537
RUNX2	13.32063	15.88121	116.5347	22.63722
RUNX3	50.78491	1.832448	40.18438	3.994803
RUSC1	725.142	513.0854	148.6822	587.6799
RUSC1-AS1	4.995237	4.886528	0	8.433473
RUSC2	164.8428	136.212	474.1757	236.5811
RUVBL1	1329.566	476.4364	626.8763	260.1061
RUVBL2	1143.077	1175.21	614.821	584.5729
RWDD1	230.6135	160.6446	450.0651	95.43141
RWDD2A	41.62698	26.8759	16.07375	35.06549
RWDD2B	121.5508	138.6552	28.12907	70.57486
RWDD3	34.13412	26.26509	60.27657	16.42308
RWDD4	28.30635	56.80588	8.036876	24.85655
RXFP1	0	0	8.036876	0.443867
RXFP2	0	0	0	0
RXFP3	0	0	4.018438	0.887734
RXFP4	5.827777	7.940607	0	2.219335
RXRA	541.9833	233.9425	156.7191	264.9886
RXRB	0	0	0	0
RXRG	1.665079	3.05408	48.22126	3.550936
RYBP	57.44523	80.62771	691.1713	98.53848

RYK	266.4127	152.704	269.2353	203.2911
RYR1	12.48809	1.832448	638.9316	0.887734
RYR2	0	14.65958	36.16594	15.97921
RYR3	10.82301	3.664896	120.5531	6.658005
S100A1	74.92856	21.98937	1269.826	36.3971
S100A10	5272.473	5252.406	7080.488	2610.382
S100A11	6966.691	6340.88	1969.035	4299.74
S100A12	0	0	0	0
S100A13	1063.153	1188.648	847.8904	622.7454
S100A14	7349.659	2919.089	164.756	1606.355
S100A16	5386.531	5133.908	855.9273	2754.639
S100A2	155.6849	356.7165	80.36876	202.4034
S100A3	13.32063	45.20038	4.018438	20.41788
S100A4	504.519	285.2511	6325.021	212.1684
S100A5	13.32063	3.664896	4.018438	3.107069
S100A6	39662.19	94038.78	38139	24985.27
S100A7	0	0.610816	0	2.219335
S100A7A	0	1.221632	0	0.443867
S100A7L2	0	0	0	0
S100A8	5.827777	1.221632	24.11063	53.70791
S100A9	52.44999	71.46547	253.1616	286.2942
S100B	0	1.221632	12.05531	0.443867
S100G	0	0	0	0
S100P	11998.56	1410.374	148.6822	1860.247
S100PBP	105.7325	84.2926	124.5716	112.7422
S100Z	0	0	0	0
S1PR1	1.665079	7.940607	353.6225	27.07589
S1PR2	14.98571	11.6055	64.29501	24.41269
S1PR3	0	20.15693	12.05531	12.87214
S1PR4	99.90475	0.610816	8.036876	1.331601
S1PR5	1.665079	0.610816	12.05531	0.887734
SAA1	2013.913	36.64896	775.5585	442.0916
SAA2	147.3595	11.6055	64.29501	214.8316
SAA2-SAA4	0	0	0	0
SAA3P	0.83254	0	20.09219	0.887734
SAA4	3.330158	0	0	3.107069
SAAL1	62.44047	84.2926	32.1475	35.06549
SAC3D1	408.7769	197.2936	96.44251	121.6196
SACM1L	64.93809	93.45484	124.5716	86.1102
SACS	24.97619	29.92998	32.1475	50.15697
SAE1	679.3523	969.9757	281.2907	485.1467
SAFB	715.984	491.096	196.9035	378.6186
SAFB2	606.0888	341.4461	233.0694	379.9502
SAG	0.83254	1.221632	20.09219	0
SAGE1	0	0	0	0
SALL1	0	1.221632	32.1475	0.887734
SALL2	2.497619	2.443264	44.20282	7.545739

SALL3	0	0	24.11063	0
SALL4	1.665079	0	12.05531	3.107069
SAMD1	307.2071	133.1579	321.475	122.5073
SAMD10	223.1206	125.8281	20.09219	143.369
SAMD11	0.83254	1.832448	0	0.443867
SAMD12	171.5032	127.0497	24.11063	178.4345
SAMD12-A	0.83254	1.832448	0	1.775468
SAMD13	31.6365	59.24915	20.09219	12.87214
SAMD14	7.492856	4.886528	108.4978	16.86695
SAMD15	2.497619	3.664896	0	5.770271
SAMD3	1.665079	0.610816	24.11063	0.887734
SAMD4A	57.44523	20.76774	293.346	86.55407
SAMD4B	110.7278	199.7368	156.7191	263.657
SAMD5	0.83254	54.36262	0	22.19335
SAMD7	0	0	0	0
SAMD8	31.6365	94.06566	8.036876	88.7734
SAMD9	78.25872	76.35199	12.05531	114.0738
SAMD9L	59.94285	50.08691	116.5347	136.2672
SAMHD1	40.79444	44.58956	241.1063	42.61123
SAMM50	362.1547	383.5924	771.5401	231.6986
SAMSN1	3.330158	2.443264	24.11063	7.101872
SAP130	122.3833	113.6118	104.4794	126.5021
SAP18	1105.613	904.0076	2097.625	655.5916
SAP25	350.4992	89.17913	56.25813	220.158
SAP30	142.3643	149.0391	104.4794	86.55407
SAP30BP	718.4817	703.66	353.6225	462.9533
SAP30L	243.1016	177.7474	1514.951	153.1341
SAPCD1	0	0	0	0
SAPCD2	308.0396	204.6233	8.036876	110.079
SAR1A	514.5095	605.9294	968.4436	545.9564
SAR1B	138.2016	241.2723	401.8438	215.7194
SARDH	4.995237	3.664896	108.4978	12.87214
SARM1	29.13889	32.98406	40.18438	55.48338
SARNP	381.3031	289.5268	703.2267	181.9855
SARS	1184.704	878.3533	2378.915	540.63
SARS2	248.0968	182.0232	168.7744	125.6144
SART1	745.9555	687.1679	1868.574	579.6903
SART3	286.3936	138.6552	116.5347	187.7557
SASH1	38.29682	25.65427	261.1985	49.26924
SASH3	0	0.610816	104.4794	15.53535
SASS6	33.30158	21.98937	12.05531	27.96362
SAT1	4388.316	2762.721	9531.735	3035.607
SAT2	148.192	207.0666	28.12907	198.4086
SATB1	5.827777	56.19507	72.33188	92.76821
SATB2	5.827777	6.718975	52.23969	12.42828
SATL1	0	0	0	0
SAV1	223.1206	102.0063	124.5716	127.3898

SAYSD1	67.43571	143.5417	200.9219	115.4054
SBDS	205.6373	321.2892	285.3091	244.5707
SBDSP1	55.78015	93.45484	108.4978	83.00313
SBF1	546.146	841.7044	602.7657	851.3369
SBF1P1	13.32063	6.10816	196.9035	15.53535
SBF2	37.46428	84.90342	229.051	94.09981
SBK1	8.325396	5.497344	72.33188	19.97402
SBK2	0	0	0	0.443867
SBNO1	164.8428	111.1685	156.7191	144.7006
SBNO2	1857.396	621.1998	229.051	891.7288
SBSN	0.83254	5.497344	124.5716	7.989606
SC5DL	26.64127	180.1907	8.036876	114.9616
SCAF1	497.0261	711.6006	659.0238	553.5022
SCAF11	204.8047	152.704	216.9957	156.6851
SCAF4	243.1016	108.1144	369.6963	175.7713
SCAF8	80.75634	104.4495	341.5672	130.9408
SCAI	29.13889	32.37325	56.25813	18.64241
SCAMP1	104.0674	78.18444	56.25813	67.91165
SCAMP2	138.2016	269.3698	196.9035	375.5115
SCAMP3	822.5491	889.9588	578.6551	705.7486
SCAMP4	253.092	299.9106	72.33188	358.2007
SCAMP5	73.26348	25.65427	120.5531	67.91165
SCAND1	1625.117	1056.712	3696.963	838.4648
SCAND2	76.59364	67.80057	24.11063	83.89087
SCAND3	0	0	0	0
SCAP	967.411	321.9	739.3926	358.6446
SCAPER	19.98095	58.63833	160.7375	61.69752
SCARA3	20.81349	78.18444	168.7744	166.894
SCARA5	0	5.497344	325.4935	14.64761
SCARB1	362.1547	117.2767	136.6269	177.9907
SCARB2	500.3563	1473.288	574.6366	1284.551
SCARF1	17.48333	7.329791	72.33188	12.42828
SCARF2	19.14841	32.98406	188.8666	50.15697
SCARNA1	0	3.05408	0	0
SCARNA10	9.990475	65.35731	8.036876	0
SCARNA11	0	1.221632	0	0.887734
SCARNA12	30.80396	45.8112	4.018438	33.73389
SCARNA13	0	0	0	0
SCARNA14	0	0	0	0
SCARNA15	0	0	0	1.331601
SCARNA16	4.995237	45.8112	0	2.663202
SCARNA17	5.827777	3.05408	0	0
SCARNA18	0	1.221632	0	0
SCARNA2	12.48809	81.84934	28.12907	1.331601
SCARNA20	0	0	0	0.443867
SCARNA21	0	10.99469	0	0
SCARNA22	0	1.832448	0	0.443867

SCARNA23	0	0	0	0
SCARNA27	0	0	0	0.443867
SCARNA3	0	4.275712	0	0
SCARNA4	0.83254	1.221632	0	0
SCARNA5	4.162698	61.0816	8.036876	0.443867
SCARNA6	0.83254	34.20569	0	0.887734
SCARNA7	21.64603	43.97875	152.7006	0.887734
SCARNA8	0	0.610816	0	0
SCARNA9	0.83254	25.65427	8.036876	1.775468
SCARNA9L	0	3.664896	0	0.887734
SCCPDH	399.619	558.2858	140.6453	565.0427
SCD	1203.852	478.2689	68.31345	177.5468
SCD5	19.98095	52.53017	0	188.6435
SCEL	6.660317	108.7252	0	73.68193
SCFD1	120.7182	297.4674	530.4338	205.5104
SCFD2	56.61269	152.704	136.6269	83.89087
SCG2	1.665079	3.05408	16.07375	5.326404
SCG3	0	0.610816	0	0.443867
SCG5	24.97619	40.31385	32.1475	128.2776
SCGB1A1	1.665079	3.05408	0	7.101872
SCGB1B2P	2.497619	1.832448	0	4.43867
SCGB1C1	0	0	0	0
SCGB1D1	0	0	0	0
SCGB1D2	0	1.221632	0	0.887734
SCGB1D4	0	0	0	0
SCGB2A1	36.63174	117.2767	0	65.24845
SCGB2A2	0	0	0	0.443867
SCGB2B2	0	0	0	0.887734
SCGB2B3P	0	0	0	0
SCGB3A1	0	205.2342	0	3793.288
SCGB3A2	0.83254	0	0	0
SCGN	0.83254	0	0	5.326404
SCHIP1	0	0	0	0
SCIMP	0.83254	0	0	0
SCIN	41.62698	143.5417	80.36876	54.59564
SCLT1	54.94761	54.97344	88.40564	55.92724
SCLY	0	3.05408	0	0.443867
SCMH1	323.8579	166.1419	120.5531	279.6362
SCML1	36.63174	4.886528	0	13.31601
SCML2	0	0.610816	8.036876	0
SCML4	2.497619	0	0	0
SCN10A	0	0	12.05531	0
SCN11A	0	3.664896	16.07375	4.882537
SCN1A	0.83254	0	0	0.443867
SCN1B	14.98571	20.15693	442.0282	26.63202
SCN2A	2.497619	9.162239	36.16594	11.09668
SCN2B	1.665079	0.610816	36.16594	0.443867

SCN3A	9.990475	0.610816	8.036876	1.331601
SCN3B	0	0.610816	8.036876	2.663202
SCN4A	2.497619	0.610816	52.23969	0
SCN4B	10.82301	1.221632	44.20282	3.550936
SCN5A	4.995237	0	52.23969	0.443867
SCN7A	0.83254	6.718975	56.25813	22.63722
SCN8A	11.65555	3.05408	68.31345	5.326404
SCN9A	0.83254	57.4167	32.1475	45.27444
SCNM1	7.492856	13.43795	16.07375	16.86695
SCNN1A	1361.202	764.7416	28.12907	1290.321
SCNN1B	0	0	20.09219	0
SCNN1D	35.7992	31.76243	0	67.46779
SCNN1G	0	0	0	0
SCO1	70.76586	140.4877	16.07375	89.21727
SCO2	0.83254	17.71366	0	10.20894
SCOC	103.2349	208.8991	4.018438	184.2048
SCP2	338.8436	704.8816	1675.689	480.708
SCPEP1	94.07697	293.1917	269.2353	588.1238
SCRG1	0	4.886528	8.036876	2.663202
SCRIB	1421.978	1110.463	216.9957	968.5178
SCRN1	281.3984	676.1733	80.36876	715.0698
SCRN2	433.7531	240.6615	196.9035	158.4605
SCRN3	10.82301	61.69241	44.20282	43.49897
SCRT1	0.83254	0.610816	16.07375	0.887734
SCRT2	0	0	36.16594	0
SCT	2.497619	0	0	1.331601
SCTR	303.0444	522.2476	16.07375	766.1145
SCUBE1	0	0	32.1475	4.43867
SCUBE2	0	1.221632	4.018438	3.550936
SCUBE3	1.665079	4.275712	32.1475	3.107069
SCXA	0	0	0	0
SCXB	0	0	0	0
SCYL1	716.8166	676.7841	707.2451	646.2704
SCYL2	43.29206	51.30854	104.4794	66.58005
SCYL3	130.7087	266.9266	44.20282	211.7246
SDAD1	114.8905	209.5099	80.36876	181.0977
SDC1	6060.056	4328.853	353.6225	2380.015
SDC2	13.32063	25.04345	249.1432	23.52495
SDC3	239.7714	469.7175	679.116	632.5105
SDC4	3664.007	1137.339	140.6453	1027.552
SDC4P	0.83254	0.610816	8.036876	0
SDCBP	516.1745	399.4736	735.3742	420.3421
SDCBP2	14.15317	28.09753	0	9.321207
SDCCAG3	663.534	174.0825	60.27657	139.3742
SDCCAG8	53.28253	125.2173	148.6822	97.65074
SDF2	402.1166	905.2292	1253.753	477.157
SDF2L1	427.9253	615.0917	353.6225	314.2578

SDF4	1501.069	1472.677	1723.91	1339.147
SDHA	979.8991	779.4012	337.5488	444.7548
SDHAF1	243.1016	220.5046	112.5163	120.7318
SDHAF2	313.0349	425.7387	100.461	259.6622
SDHAP1	154.0198	45.20038	124.5716	49.26924
SDHAP2	53.28253	4.886528	0	7.989606
SDHAP3	29.97142	62.30323	0	60.36591
SDHB	994.0523	633.4161	3399.599	421.2298
SDHC	113.2254	257.1535	188.8666	167.3379
SDHD	71.5984	116.055	24.11063	88.7734
SDK1	11.65555	153.3148	80.36876	66.58005
SDK2	4.995237	1.832448	40.18438	1.331601
SDPR	1.665079	3.05408	196.9035	7.101872
SDR16C5	765.1039	178.9691	4.018438	91.43661
SDR39U1	63.27301	50.08691	20.09219	61.69752
SDR42E1	72.43094	62.91404	8.036876	50.60084
SDR9C7	0	0	4.018438	0.443867
SDS	0	0	0	0
SDSL	150.6897	101.3954	4.018438	65.69232
SEBOX	0	0	0	0
SEC1	0	1.832448	8.036876	4.882537
SEC11A	367.9825	1175.21	896.1117	844.6789
SEC11C	299.7142	447.1173	1217.587	379.5063
SEC13	1276.283	623.0323	1109.089	517.5489
SEC14L1	148.192	176.5258	385.7701	270.315
SEC14L2	261.4174	293.8025	4.018438	180.6539
SEC14L3	0.83254	0	4.018438	0
SEC14L4	3.330158	89.17913	0	96.31914
SEC14L5	0.83254	0.610816	8.036876	3.107069
SEC14L6	0	8.551423	0	5.770271
SEC16A	932.4443	390.3114	56.25813	596.5573
SEC16B	108.2301	72.6871	84.3872	151.3587
SEC22A	212.2976	144.7634	104.4794	102.0894
SEC22B	171.5032	291.3592	803.6876	348.4356
SEC22C	40.79444	114.2226	20.09219	101.2017
SEC23A	23.31111	103.2279	237.0878	118.9564
SEC23B	223.9531	445.8956	245.1247	327.13
SEC23IP	136.5365	188.7421	353.6225	191.7506
SEC24A	25.80873	49.47609	44.20282	51.48857
SEC24B	80.75634	161.2554	237.0878	132.7162
SEC24C	1058.99	928.4402	992.5542	1423.038
SEC24D	65.77063	152.0932	176.8113	200.6279
SEC31A	313.8674	501.4799	803.6876	827.812
SEC31B	329.6857	36.03814	8.036876	54.15178
SEC61A1	6390.574	2476.248	345.5857	2909.992
SEC61A2	38.29682	57.4167	44.20282	93.21207
SEC61B	830.042	641.3568	2636.095	529.5334



SEC61G	734.2999	748.2495	4167.12	532.6404
SEC62	850.8554	649.2974	1603.357	556.6092
SEC63	150.6897	188.7421	184.8482	237.9127
SECISBP2	300.5468	200.9584	44.20282	177.5468
SECISBP2L	13.32063	44.58956	104.4794	125.1705
SECTM1	5.827777	13.43795	0	56.81498
SEH1L	169.0055	203.4017	369.6963	143.8129
SEL1L	104.9	186.9097	88.40564	217.051
SEL1L2	0	0	0	0
SEL1L3	437.0833	1248.508	68.31345	1833.615
SELE	2.497619	0	0	2.663202
SELENBP1	2825.639	348.7759	872.0011	597.445
SELK	417.1023	224.1695	1008.628	215.7194
SELL	9.157935	15.2704	20.09219	60.80978
SELM	376.3079	366.4896	2338.731	527.314
SELO	452.9015	422.6846	128.59	201.0718
SELP	0.83254	0	16.07375	7.989606
SELPLG	311.3698	11.6055	229.051	27.96362
SELRC1	43.29206	51.91936	76.35032	47.93764
SELS	623.5721	800.7797	566.5998	657.8109
SELT	229.7809	231.4992	88.40564	154.9096
SELV	0	0.610816	0	0
SEMA3A	6.660317	4.886528	32.1475	14.20374
SEMA3B	1431.136	621.8106	269.2353	526.4263
SEMA3C	11.65555	108.1144	156.7191	165.5624
SEMA3D	0.83254	3.05408	8.036876	2.663202
SEMA3E	0	197.9044	8.036876	123.395
SEMA3F	481.2079	83.07097	357.641	83.00313
SEMA3G	2.497619	4.886528	56.25813	14.20374
SEMA4A	109.0627	165.5311	148.6822	221.9335
SEMA4B	935.7745	657.8488	52.23969	676.4533
SEMA4C	30.80396	191.1854	152.7006	307.5998
SEMA4D	289.7238	134.3795	96.44251	139.8181
SEMA4F	40.79444	34.20569	36.16594	37.7287
SEMA4G	554.4714	171.6393	20.09219	139.8181
SEMA5A	1.665079	2.443264	8.036876	10.20894
SEMA5B	4.162698	1.221632	36.16594	3.107069
SEMA6A	97.40713	178.9691	68.31345	193.9699
SEMA6B	34.13412	12.21632	68.31345	29.29522
SEMA6C	28.30635	16.49203	168.7744	40.83577
SEMA6D	9.157935	9.162239	92.42408	23.08108
SEMA7A	92.41189	192.407	433.9913	164.2308
SEMG1	2.497619	0	0	0
SEMG2	0	0.610816	0	0
SENP1	53.28253	32.98406	28.12907	42.61123
SENP2	174.8333	126.4389	265.2169	149.5832
SENP3	208.9674	75.13036	72.33188	62.58525

SENP3-EIF4	2.497619	1.221632	0	0
SENP5	342.1738	110.5577	92.42408	126.0582
SENP6	179.8285	154.5364	610.8026	150.9148
SENP7	32.46904	29.92998	36.16594	28.40749
SENP8	0	14.04877	36.16594	11.98441
15-Sep	457.8968	1084.198	1028.72	880.1883
SEPHS1	304.7095	363.4355	124.5716	315.1456
SEPHS2	1025.689	767.1848	249.1432	674.234
SEPN1	312.2023	210.1207	80.36876	252.1165
SEPP1	10.82301	65.96812	863.9642	116.737
SEPSECS	46.62222	65.35731	12.05531	81.67153
1-Sep	45.78968	14.65958	630.8948	23.08108
10-Sep	36.63174	145.3742	68.31345	80.7838
11-Sep	301.3793	365.2679	381.7516	281.8556
12-Sep	0	0	8.036876	0
14-Sep	0	0	8.036876	0.887734
2-Sep	961.5832	1766.48	361.6594	1601.916
3-Sep	4.162698	1.832448	24.11063	7.545739
4-Sep	82.42142	138.0444	1611.394	208.6175
5-Sep	0.83254	0.610816	12.05531	0.443867
SEPT5-GP1	0	1.221632	0	0
6-Sep	64.10555	5.497344	285.3091	27.51976
7-Sep	111.5603	366.4896	1169.365	260.9938
SEPT7L	0	0	0	0
SEPT7P2	16.65079	20.76774	0	19.97402
8-Sep	512.8444	150.2607	530.4338	220.6019
9-Sep	2465.982	2798.759	321.475	1720.872
SEPW1	6257.367	3215.946	2407.044	1807.426
SEPX1	491.1984	182.0232	1257.771	239.2443
SERAC1	31.6365	21.37856	8.036876	23.52495
SERBP1	760.9412	878.9642	2125.754	564.155
SERF1A	0	0	0	0
SERF1B	0	0	0	0
SERF2	2821.477	2834.186	22221.96	2658.763
SERF2-C15	0	0	0	0
SERGEF	163.1778	61.69241	108.4978	34.17776
SERHL	0	0	0	0
SERHL2	9.157935	9.162239	0	4.43867
SERINC1	158.1825	320.6784	257.18	324.4668
SERINC2	1727.52	2305.219	92.42408	2575.76
SERINC3	131.5413	321.9	807.706	442.5354
SERINC4	14.98571	10.38387	16.07375	27.51976
SERINC5	155.6849	139.266	32.1475	206.842
SERP1	1327.068	704.2708	723.3188	569.9253
SERP2	44.95714	19.54611	36.16594	11.09668
SERPINA1	899.1427	1133.064	60.27657	13925.44
SERPINA1C	2.497619	0	0	0.443867

SERPINA11	0	0	0	1.331601
SERPINA12	0	0	0	0
SERPINA13	0	0	0	0
SERPINA3	889.9848	12990.22	120.5531	9949.723
SERPINA4	374.6428	1075.036	4.018438	603.6591
SERPINA5	43.29206	1371.282	0	682.6675
SERPINA6	196.4793	74.51955	0	164.6747
SERPINA7	0	0	0	0
SERPINA9	0.83254	0	0	0
SERPINB1	405.4468	1243.621	140.6453	525.0947
SERPINB10	1.665079	0	0	0.443867
SERPINB11	0	0	0	0
SERPINB12	0	0	0	0
SERPINB13	0	0	4.018438	0
SERPINB2	74.09602	11.6055	4.018438	24.85655
SERPINB3	836.7023	3.664896	172.7928	4.882537
SERPINB4	88.2492	0	0	0.887734
SERPINB5	46.62222	268.1482	8.036876	196.1892
SERPINB6	3042.932	1692.571	5051.177	919.2486
SERPINB7	28.30635	3.664896	0	15.97921
SERPINB8	71.5984	102.0063	530.4338	119.8441
SERPINB9	15.81825	27.48672	104.4794	40.3919
SERPINC1	0.83254	0	12.05531	0.887734
SERPIND1	0	0	0	0.443867
SERPINE1	14.98571	229.056	8.036876	263.2131
SERPINE2	78.25872	166.1419	184.8482	344.8847
SERPINE3	0	0	0	1.331601
SERPINF1	152.3547	255.9319	3753.221	453.1882
SERPINF2	4.162698	16.49203	4.018438	36.84096
SERPING1	442.9111	425.7387	6590.238	828.6997
SERPINH1	417.9349	714.6547	2841.036	1051.077
SERPINI1	0.83254	3.664896	8.036876	6.214138
SERPINI2	0	0	0	1.331601
SERTAD1	313.0349	197.9044	442.0282	160.236
SERTAD2	103.2349	75.74118	152.7006	64.36072
SERTAD3	311.3698	213.7856	120.5531	204.6227
SERTAD4	14.15317	21.98937	28.12907	29.73909
SERTM1	0	0	0	0
SESN1	75.7611	47.03283	502.3048	83.00313
SESN2	294.719	99.563	20.09219	139.3742
SESN3	0	3.664896	28.12907	8.433473
SESTD1	141.5317	367.1004	309.4197	357.7568
SET	764.2713	498.4258	253.1616	428.7755
SETBP1	10.82301	23.82182	120.5531	35.06549
SETD1A	328.8531	172.8609	602.7657	229.0354
SETD1B	230.6135	68.41139	92.42408	116.2932
SETD2	265.5801	207.6774	715.282	278.7485

SETD3	351.3317	599.2105	707.2451	426.1123
SETD4	306.3746	112.3901	8.036876	125.6144
SETD5	477.8777	241.8831	791.6323	533.5282
SETD6	116.5555	100.7846	188.8666	97.20688
SETD7	120.7182	166.7528	144.6638	267.6518
SETD8	252.2595	55.58425	36.16594	75.90126
SETD9	9.157935	72.07628	0	54.15178
SETDB1	255.5897	271.2023	261.1985	284.0749
SETDB2	32.46904	46.42201	8.036876	44.83057
SETMAR	53.28253	43.36793	4.018438	32.40229
SETX	223.1206	165.5311	20.09219	170.8888
SEZ6	0.83254	1.221632	40.18438	1.331601
SEZ6L	2.497619	0	8.036876	0.443867
SEZ6L2	270.5754	373.8194	60.27657	694.208
SF1	1261.297	889.348	1060.868	1025.777
SF3A1	305.542	337.7812	297.3644	245.4585
SF3A2	575.2848	179.5799	289.3275	185.5364
SF3A3	467.0547	370.7653	723.3188	276.0853
SF3B1	926.6165	1913.076	2664.224	1942.362
SF3B14	420.4325	661.5137	1076.941	325.7984
SF3B2	1236.321	1593.008	2169.957	1242.384
SF3B3	631.065	551.5668	626.8763	695.0958
SF3B4	654.3761	326.1757	377.7332	336.0073
SF3B5	1745.835	764.7416	1402.435	449.1934
SFI1	649.3809	294.4133	212.9772	197.077
SFMBT1	130.7087	78.18444	156.7191	81.67153
SFMBT2	0.83254	0	4.018438	0
SFN	6045.902	1960.108	156.7191	940.9981
SFPQ	1039.842	791.0067	2129.772	728.3858
SFR1	30.80396	42.75712	52.23969	29.73909
SFRP1	9.990475	15.88121	261.1985	21.74948
SFRP2	4.995237	36.64896	739.3926	131.8285
SFRP4	0.83254	56.80588	811.7245	65.24845
SFRP5	0	0.610816	76.35032	2.219335
SFSWAP	421.265	246.7696	233.0694	209.0614
SFT2D1	201.4746	408.0251	482.2126	215.7194
SFT2D2	29.13889	42.1463	20.09219	24.41269
SFT2D3	192.3166	251.6562	16.07375	175.7713
SFTA1P	0	0	0	10.65281
SFTA2	65.77063	121.5524	0	107.8597
SFTA3	0	0	0	0
SFTPA1	0	0	0	0
SFTPA2	25.80873	0.610816	0	7.101872
SFTPB	3.330158	0	4.018438	0
SFTPC	0	0.610816	0	2.219335
SFTPD	0	0	4.018438	8.433473
SFXN1	141.5317	153.3148	12.05531	153.578

SFXN2	99.07221	101.3954	20.09219	63.02912
SFXN3	616.9118	179.5799	160.7375	201.9595
SFXN4	442.9111	215.0072	0	183.7609
SFXN5	208.1349	75.13036	20.09219	108.3036
SGCA	0	0.610816	60.27657	0.443867
SGCB	80.75634	203.4017	44.20282	118.5125
SGCD	3.330158	1.221632	60.27657	1.331601
SGCE	18.31587	211.3423	502.3048	207.7298
SGCG	1.665079	0	8.036876	0
SGCZ	0	0	0	0
SGIP1	0.83254	2.443264	44.20282	0
SGK1	147.3595	100.7846	835.8351	191.3067
SGK110	0	0.610816	0	3.994803
SGK196	35.7992	10.38387	12.05531	5.326404
SGK2	43.29206	128.2714	20.09219	92.32434
SGK223	79.09126	244.3264	124.5716	334.2319
SGK3	1.665079	0	0	1.331601
SGK494	30.80396	17.71366	8.036876	27.07589
SGMS1	32.46904	62.91404	245.1247	63.02912
SGMS2	52.44999	82.46015	28.12907	75.01353
SGOL1	26.64127	23.21101	4.018438	21.74948
SGOL2	26.64127	57.4167	4.018438	24.41269
SGPL1	346.3365	426.9604	253.1616	391.0468
SGPP1	19.98095	29.92998	124.5716	43.49897
SGPP2	119.8857	134.3795	8.036876	148.2516
SGSH	169.0055	187.5205	8.036876	150.0271
SGSM1	3.330158	0	8.036876	3.107069
SGSM2	527.8301	607.1511	249.1432	893.5043
SGSM3	3319.335	1480.007	265.2169	1080.816
SGTA	1297.929	464.8309	64.29501	421.6737
SGTB	6.660317	14.04877	4.018438	7.989606
SH2B1	824.2142	412.3008	650.987	543.2932
SH2B2	17.48333	29.92998	28.12907	103.421
SH2B3	61.60793	33.59488	128.59	62.14138
SH2D1A	0.83254	0	12.05531	0.887734
SH2D1B	10.82301	1.221632	4.018438	1.331601
SH2D2A	53.28253	21.37856	4.018438	10.65281
SH2D3A	1158.063	373.2085	8.036876	276.5292
SH2D3C	33.30158	16.49203	281.2907	68.79939
SH2D4A	345.5039	282.197	40.18438	229.4792
SH2D4B	0	1.221632	12.05531	0
SH2D5	0	3.664896	0	3.994803
SH2D6	3.330158	5.497344	8.036876	6.658005
SH2D7	3.330158	0.610816	12.05531	0
SH3BGR	15.81825	8.551423	40.18438	8.87734
SH3BGRL	58.27777	211.9531	212.9772	159.7921
SH3BGRL2	535.3229	264.4833	28.12907	192.1944

SH3BGRL3	4979.419	1511.769	8535.162	1438.573
SH3BP1	448.7388	100.7846	196.9035	103.8649
SH3BP2	356.3269	436.1226	128.59	781.6498
SH3BP4	174.0008	367.7112	221.0141	475.8254
SH3BP5	3.330158	4.275712	104.4794	10.65281
SH3BP5L	323.0254	279.1429	124.5716	291.6206
SH3D19	105.7325	198.5152	80.36876	229.4792
SH3D21	239.7714	116.055	20.09219	96.31914
SH3GL1	673.5245	347.5543	313.4382	268.9834
SH3GL1P1	0.83254	1.221632	4.018438	4.882537
SH3GL1P2	0	0	0	0.887734
SH3GL2	4.162698	5.497344	24.11063	4.882537
SH3GL3	0.83254	0	16.07375	0
SH3GLB1	350.4992	458.112	2262.381	469.1674
SH3GLB2	1459.442	827.0448	928.2592	629.4034
SH3KBP1	457.0642	316.4027	1675.689	243.2391
SH3PXD2A	259.7523	88.56831	393.8069	138.0426
SH3PXD2B	94.07697	201.5693	64.29501	303.605
SH3RF1	202.3071	405.5818	36.16594	293.3961
SH3RF2	264.7476	180.1907	4.018438	133.604
SH3RF3	1.665079	0	28.12907	2.219335
SH3TC1	470.3849	290.7484	184.8482	328.9055
SH3TC2	56.61269	76.35199	16.07375	120.7318
SH3YL1	121.5508	171.6393	8.036876	109.1913
SHANK1	0	3.664896	56.25813	1.331601
SHANK2	35.7992	105.6712	36.16594	141.5936
SHANK3	42.45952	27.48672	474.1757	49.71311
SHARPIN	1723.357	966.9217	329.5119	867.3162
SHB	691.8404	758.0226	144.6638	572.1446
SHBG	0	3.05408	12.05531	1.331601
SHC1	897.4777	582.7184	200.9219	646.7142
SHC2	417.1023	218.0613	72.33188	573.0323
SHC3	1.665079	3.05408	32.1475	17.31081
SHC4	0	0	16.07375	5.326404
SHCBP1	107.3976	92.84402	4.018438	75.90126
SHCBP1L	0	0	0	0
SHD	0.83254	0	0	0
SHE	0	1.221632	24.11063	2.663202
SHF	33.30158	25.04345	269.2353	24.41269
SHFM1	1569.337	1211.859	3757.24	742.1457
SHH	24.97619	47.64364	4.018438	51.93244
SHISA2	1.665079	55.58425	28.12907	27.07589
SHISA3	4.162698	0.610816	4.018438	0.443867
SHISA4	18.31587	31.76243	72.33188	74.12579
SHISA5	1565.174	701.2167	361.6594	671.5708
SHISA6	0	0	20.09219	0.443867
SHISA7	1.665079	0.610816	4.018438	0

SHISA8	1.665079	0	16.07375	0
SHISA9	2.497619	0	132.6085	0.887734
SHKBP1	924.1189	557.675	309.4197	344.8847
SHMT1	139.8666	251.6562	28.12907	204.1788
SHMT2	1702.543	368.322	337.5488	253.8919
SHOC2	59.11031	50.69772	184.8482	59.03431
SHOX	0	0	0	0
SHOX2	0.83254	2.443264	36.16594	6.658005
SHPK	44.1246	62.91404	20.09219	51.93244
SHPRH	4.162698	9.773055	56.25813	17.75468
SHQ1	62.44047	39.70304	36.16594	37.7287
SHROOM1	521.1698	108.1144	12.05531	210.8368
SHROOM2	33.30158	6.10816	16.07375	28.40749
SHROOM3	760.1086	1073.814	8.036876	680.4481
SHROOM4	2.497619	1.221632	60.27657	0.887734
SI	16.65079	0	0	0
SIAE	206.4698	303.5755	24.11063	307.5998
SIAH1	44.95714	40.31385	88.40564	30.62682
SIAH2	360.4896	122.1632	261.1985	124.2828
SIAH3	0.83254	0.610816	24.11063	0
SIDT1	303.0444	37.87059	32.1475	68.79939
SIDT2	132.3738	132.5471	458.1019	199.7402
SIGIRR	1468.6	734.8116	144.6638	492.2485
SIGLEC1	0	0.610816	24.11063	4.882537
SIGLEC10	10.82301	1.832448	16.07375	1.331601
SIGLEC11	0	0	0	0.887734
SIGLEC12	0	0.610816	0	0.887734
SIGLEC14	0	0.610816	0	0
SIGLEC15	15.81825	32.98406	20.09219	3.994803
SIGLEC16	0	0.610816	0	1.775468
SIGLEC5	0	0	0	0.443867
SIGLEC6	0.83254	0.610816	0	0
SIGLEC7	0	0	0	0
SIGLEC8	0	0	0	0
SIGLEC9	0	0.610816	0	1.331601
SIGLECP3	0	0.610816	0	0.443867
SIGMAR1	883.3245	621.8106	470.1573	474.9377
SIK1	59.94285	72.6871	56.25813	90.54887
SIK2	118.2206	84.90342	32.1475	115.4054
SIK3	135.704	152.704	208.9588	209.5052
SIKE1	87.41666	146.5958	144.6638	112.7422
SIL1	732.6348	448.9497	462.1204	435.8774
SIM1	0	0	0	0
SIM2	70.76586	3.05408	8.036876	3.550936
SIN3A	84.91904	208.2882	353.6225	312.0385
SIN3B	388.796	185.688	667.0607	335.1196
SIPA1	308.8722	353.0516	281.2907	403.4751

SIPA1L1	125.7135	147.2066	433.9913	194.8576
SIPA1L2	338.0111	133.7687	132.6085	177.1029
SIPA1L3	239.7714	351.83	84.3872	287.6258
SIRPA	213.1301	363.4355	659.0238	367.9658
SIRPB1	0	4.886528	4.018438	14.64761
SIRPB2	2.497619	0	0	0
SIRPD	0	0	0	0.443867
SIRPG	0	0.610816	0	2.219335
SIRT1	17.48333	36.64896	32.1475	43.49897
SIRT2	238.1063	327.3974	361.6594	201.5156
SIRT3	240.6039	96.50892	76.35032	111.4106
SIRT4	5.827777	1.832448	48.22126	3.994803
SIRT5	74.92856	172.8609	52.23969	129.1653
SIRT6	450.4039	128.8822	8.036876	103.421
SIRT7	1415.317	471.5499	450.0651	429.2194
SIT1	0	0	48.22126	0.443867
SIVA1	840.0324	915.6131	184.8482	660.0303
SIX1	4.995237	10.99469	152.7006	7.989606
SIX2	3.330158	5.497344	4.018438	9.321207
SIX3	0	0	72.33188	0.443867
SIX4	16.65079	22.60019	132.6085	32.40229
SIX5	210.6325	149.0391	80.36876	163.7869
SIX6	0	0	0	0.443867
SKA1	57.44523	43.36793	12.05531	36.84096
SKA2	50.78491	177.1366	0	114.9616
SKA3	121.5508	50.69772	4.018438	54.59564
SKAP1	49.95237	20.76774	116.5347	19.97402
SKAP2	74.09602	191.7962	872.0011	163.7869
SKI	221.4555	150.2607	759.4848	274.7537
SKIL	132.3738	70.85465	24.11063	100.7578
SKINTL	4.162698	1.832448	0	1.331601
SKIV2L	0	0	0	0
SKIV2L2	154.8524	213.1748	164.756	175.7713
SKOR1	0	0.610816	16.07375	2.663202
SKP1	450.4039	562.5615	928.2592	339.5583
SKP1P2	4.162698	5.497344	108.4978	9.321207
SKP2	43.29206	66.57894	16.07375	51.04471
SLA	11.65555	1.221632	132.6085	10.20894
SLA2	2.497619	2.443264	28.12907	2.663202
SLAIN1	17.48333	37.87059	32.1475	14.20374
SLAIN2	70.76586	156.9797	305.4013	161.5676
SLAMF1	0	0	0	0
SLAMF6	4.995237	1.221632	8.036876	1.331601
SLAMF7	3.330158	1.832448	0	12.42828
SLAMF8	9.990475	1.221632	52.23969	15.09148
SLAMF9	0.83254	0	0	3.107069
SLBP	181.4936	351.2192	172.7928	285.8504



SLC10A1	1.665079	0	4.018438	0.887734
SLC10A2	0	1.832448	0	1.331601
SLC10A3	198.977	547.2911	80.36876	275.1976
SLC10A4	0.83254	0	4.018438	0.887734
SLC10A5	11.65555	4.886528	0	4.882537
SLC10A6	0.83254	0	28.12907	1.331601
SLC10A7	30.80396	30.5408	36.16594	49.26924
SLC11A1	32.46904	39.09222	462.1204	27.96362
SLC11A2	265.5801	172.2501	164.756	229.4792
SLC12A1	0	1.832448	12.05531	1.331601
SLC12A2	340.5087	1262.557	76.35032	495.3556
SLC12A3	0	0	12.05531	0.443867
SLC12A4	178.1635	185.0772	438.0097	245.4585
SLC12A5	3.330158	3.664896	76.35032	0.887734
SLC12A6	18.31587	61.69241	120.5531	130.9408
SLC12A7	1990.602	1459.85	92.42408	1867.792
SLC12A8	103.2349	35.42733	0	39.50416
SLC12A9	590.2706	1944.227	40.18438	1676.042
SLC13A1	0	1.221632	0	0
SLC13A2	1.665079	1.221632	8.036876	0.887734
SLC13A3	43.29206	10.99469	36.16594	22.19335
SLC13A4	13.32063	4.886528	4.018438	4.43867
SLC13A5	0.83254	1.832448	0	4.882537
SLC14A1	75.7611	0	4.018438	1.775468
SLC14A2	0	0	8.036876	0.443867
SLC15A1	164.8428	1088.474	16.07375	1043.531
SLC15A2	17.48333	36.03814	16.07375	94.54367
SLC15A3	272.2404	119.7199	1213.568	172.2204
SLC15A4	87.41666	84.2926	56.25813	70.13099
SLC15A5	0	0	0	0.443867
SLC16A1	199.8095	160.6446	12.05531	72.79419
SLC16A10	0	1.832448	16.07375	3.107069
SLC16A11	2.497619	3.05408	20.09219	7.545739
SLC16A12	0	1.832448	12.05531	1.331601
SLC16A13	5.827777	34.20569	44.20282	40.83577
SLC16A14	0.83254	17.71366	0	14.64761
SLC16A2	58.27777	4.275712	60.27657	16.42308
SLC16A3	2725.735	1070.15	60.27657	1002.696
SLC16A4	26.64127	18.32448	4.018438	12.87214
SLC16A5	663.534	459.9444	20.09219	196.6331
SLC16A6	2.497619	0.610816	16.07375	3.550936
SLC16A7	6.660317	15.2704	16.07375	12.42828
SLC16A8	2.497619	3.05408	16.07375	15.53535
SLC16A9	0	0.610816	8.036876	1.775468
SLC17A1	0.83254	0.610816	0	3.107069
SLC17A2	0	0	4.018438	0
SLC17A3	0	0.610816	0	2.219335

SLC17A4	39.9619	33.59488	8.036876	103.421
SLC17A5	79.9238	98.95218	20.09219	60.36591
SLC17A6	0	0	4.018438	0
SLC17A7	1.665079	1.832448	36.16594	0.887734
SLC17A8	0	0	0	0
SLC17A9	1395.336	926.6078	24.11063	1222.854
SLC18A1	0	0	0	0.887734
SLC18A2	25.80873	21.98937	16.07375	40.83577
SLC18A3	0	0	4.018438	0
SLC19A1	208.9674	87.9575	28.12907	70.57486
SLC19A2	64.10555	111.1685	12.05531	144.7006
SLC19A3	82.42142	4.275712	0	7.545739
SLC1A1	175.6659	602.8753	16.07375	441.2038
SLC1A2	0	1.221632	12.05531	2.219335
SLC1A3	12.48809	0.610816	12.05531	3.550936
SLC1A4	152.3547	76.96281	16.07375	89.66114
SLC1A5	1779.97	1921.016	212.9772	600.9959
SLC1A6	1.665079	0	16.07375	1.331601
SLC1A7	38.29682	0	4.018438	0.887734
SLC20A1	478.7103	542.4046	618.8395	500.682
SLC20A2	381.3031	271.8131	28.12907	269.4273
SLC22A1	5.827777	3.664896	0	3.994803
SLC22A10	0	0	0	0.443867
SLC22A11	0	0	8.036876	1.775468
SLC22A12	0	0	4.018438	0
SLC22A13	0	1.221632	4.018438	0.887734
SLC22A14	0	0	0	2.663202
SLC22A15	22.47857	13.43795	4.018438	59.03431
SLC22A16	0	0	0	1.331601
SLC22A17	5.827777	7.940607	192.885	31.95843
SLC22A18	1300.427	530.1882	48.22126	283.631
SLC22A18A	118.2206	69.63302	0	28.85136
SLC22A2	0	0	0	0
SLC22A20	24.97619	6.10816	8.036876	21.74948
SLC22A23	233.9436	193.0178	20.09219	410.577
SLC22A24	0	0	12.05531	0
SLC22A25	0	0.610816	0	0
SLC22A3	134.8714	199.7368	0	169.1133
SLC22A31	0	0	0	1.331601
SLC22A4	9.990475	3.664896	28.12907	9.765074
SLC22A5	71.5984	41.53548	68.31345	56.81498
SLC22A6	0	0.610816	4.018438	0.443867
SLC22A7	0	0	4.018438	0
SLC22A8	0	0	0	0
SLC22A9	1.665079	0	8.036876	2.219335
SLC23A1	4.162698	6.10816	56.25813	9.321207
SLC23A2	51.61745	56.80588	124.5716	161.5676

SLC23A3	118.2206	47.03283	20.09219	47.93764
SLC24A1	21.64603	32.37325	16.07375	47.49377
SLC24A2	2.497619	0	0	1.331601
SLC24A3	14.15317	6.10816	52.23969	12.87214
SLC24A4	0.83254	1.221632	4.018438	0
SLC24A5	0	0	0	0.443867
SLC24A6	366.3174	234.5533	152.7006	304.4928
SLC25A1	1365.365	714.0439	522.3969	303.1612
SLC25A10	830.8745	577.8319	52.23969	363.5271
SLC25A11	329.6857	325.5649	1157.31	300.9418
SLC25A12	77.42618	139.266	381.7516	138.0426
SLC25A13	240.6039	186.9097	40.18438	196.1892
SLC25A14	127.3786	90.40076	64.29501	60.80978
SLC25A15	74.09602	65.96812	4.018438	33.29003
SLC25A16	69.93332	66.57894	32.1475	77.67673
SLC25A17	149.0246	163.0879	305.4013	95.87528
SLC25A18	4.995237	1.832448	12.05531	5.326404
SLC25A19	43.29206	50.69772	36.16594	18.64241
SLC25A2	1.665079	0	0	0.443867
SLC25A20	191.4841	188.1313	257.18	157.1289
SLC25A21	4.162698	9.773055	0	3.107069
SLC25A22	519.5047	111.7793	112.5163	126.0582
SLC25A23	222.2881	72.6871	24.11063	87.88567
SLC25A24	50.78491	176.5258	76.35032	150.9148
SLC25A25	467.8872	122.774	56.25813	154.4657
SLC25A26	212.2976	129.493	36.16594	85.66633
SLC25A27	10.82301	4.886528	16.07375	30.62682
SLC25A28	637.7253	123.9956	703.2267	163.7869
SLC25A29	1082.301	555.8425	28.12907	608.0978
SLC25A3	4424.948	1118.404	8153.411	778.0989
SLC25A30	27.47381	31.76243	12.05531	23.08108
SLC25A31	0	0	4.018438	0
SLC25A32	56.61269	62.30323	12.05531	47.0499
SLC25A33	48.2873	29.92998	20.09219	16.86695
SLC25A34	2.497619	3.05408	12.05531	4.43867
SLC25A35	14.15317	21.37856	4.018438	27.96362
SLC25A36	171.5032	69.63302	40.18438	80.7838
SLC25A37	499.5237	180.1907	24.11063	264.1009
SLC25A38	344.6714	119.1091	76.35032	107.4158
SLC25A39	1516.887	1877.037	1940.906	1649.854
SLC25A4	531.1603	499.0366	9033.449	523.3192
SLC25A40	15.81825	62.91404	8.036876	43.0551
SLC25A41	4.995237	1.832448	0	1.331601
SLC25A42	51.61745	7.329791	16.07375	23.52495
SLC25A43	28.30635	79.40607	12.05531	51.48857
SLC25A44	221.4555	188.7421	44.20282	262.7693
SLC25A45	33.30158	26.26509	32.1475	28.85136

SLC25A46	31.6365	39.09222	64.29501	47.93764
SLC25A47	1.665079	4.886528	0	0.443867
SLC25A48	0	0	4.018438	0.443867
SLC25A5	2301.139	2793.872	2089.588	1045.751
SLC25A5-A	13.32063	23.82182	0	14.64761
SLC25A6	0	0	0	0
SLC26A1	14.15317	31.76243	0	57.70271
SLC26A10	0	0	12.05531	0.887734
SLC26A11	39.12936	51.30854	16.07375	72.79419
SLC26A2	10.82301	11.6055	28.12907	17.75468
SLC26A3	0	0	0	0
SLC26A4	0	0	20.09219	0.443867
SLC26A5	0.83254	2.443264	0	3.994803
SLC26A6	304.7095	323.1216	80.36876	352.4304
SLC26A7	7.492856	10.38387	8.036876	11.98441
SLC26A8	2.497619	4.275712	16.07375	8.433473
SLC26A9	104.9	9.162239	20.09219	99.87008
SLC27A1	882.492	122.1632	269.2353	171.7765
SLC27A2	33.30158	23.21101	0	10.65281
SLC27A3	507.0166	120.3307	60.27657	108.7474
SLC27A4	636.8928	247.3805	164.756	186.868
SLC27A5	121.5508	44.58956	12.05531	27.96362
SLC27A6	0	0	0	0
SLC28A1	0	5.497344	0	9.321207
SLC28A2	53.28253	6.718975	80.36876	22.63722
SLC28A3	259.7523	3.664896	4.018438	88.7734
SLC29A1	394.6238	533.8531	305.4013	370.1851
SLC29A2	822.5491	444.674	20.09219	272.9782
SLC29A3	63.27301	37.87059	0	58.14658
SLC29A4	0.83254	20.15693	0	51.48857
SLC2A1	1103.115	1067.706	204.9403	649.3774
SLC2A10	64.10555	27.48672	20.09219	127.8337
SLC2A11	9.157935	95.8981	0	50.60084
SLC2A12	19.14841	12.82714	12.05531	18.19855
SLC2A13	23.31111	14.65958	12.05531	7.545739
SLC2A14	0	1.221632	0	0.443867
SLC2A2	0	0	0	0.443867
SLC2A3	0	2.443264	0	2.219335
SLC2A4	3.330158	1.221632	56.25813	1.775468
SLC2A4RG	690.1753	660.9029	16.07375	509.1155
SLC2A5	0.83254	0	0	1.775468
SLC2A6	82.42142	211.3423	28.12907	157.1289
SLC2A7	0	0	0	1.331601
SLC2A8	186.4889	93.45484	104.4794	72.79419
SLC2A9	4.995237	2.443264	0	8.87734
SLC30A1	22.47857	86.73587	84.3872	69.68712
SLC30A10	24.14365	0	0	2.663202

SLC30A2	0.83254	12.21632	0	13.75988
SLC30A3	0	0	12.05531	0
SLC30A4	0.83254	3.05408	8.036876	2.663202
SLC30A5	59.94285	237.6074	329.5119	170.4449
SLC30A6	72.43094	111.1685	24.11063	108.3036
SLC30A7	85.75158	67.80057	60.27657	81.22766
SLC30A8	0	0	0	0
SLC30A9	208.1349	202.7909	84.3872	195.7454
SLC31A1	140.6992	110.5577	40.18438	162.8992
SLC31A2	27.47381	20.15693	36.16594	43.94283
SLC32A1	0	1.832448	4.018438	1.331601
SLC33A1	233.9436	156.9797	24.11063	177.9907
SLC34A1	0	1.221632	4.018438	1.331601
SLC34A2	1.665079	316.4027	16.07375	1172.697
SLC34A3	4.995237	1.221632	12.05531	4.43867
SLC35A1	341.3412	75.74118	96.44251	91.88047
SLC35A2	447.0738	245.548	317.4566	312.0385
SLC35A3	34.13412	76.96281	68.31345	50.15697
SLC35A4	585.2753	384.8141	192.885	384.3888
SLC35A5	75.7611	79.40607	16.07375	73.68193
SLC35B1	280.5658	791.0067	699.2082	572.1446
SLC35B2	542.8158	877.7425	333.5304	719.9523
SLC35B3	59.94285	177.1366	64.29501	138.0426
SLC35B4	91.57935	75.74118	72.33188	57.25885
SLC35C1	1155.565	341.4461	80.36876	687.55
SLC35C2	781.7547	591.2698	277.2722	491.3608
SLC35D1	90.74681	56.19507	24.11063	42.61123
SLC35D2	348.0015	229.6668	32.1475	110.9668
SLC35D3	4.995237	3.664896	24.11063	3.550936
SLC35E1	243.9341	238.829	44.20282	238.8005
SLC35E2	64.93809	56.80588	8.036876	80.7838
SLC35E2B	62.44047	128.2714	4.018438	205.0666
SLC35E3	14.98571	29.31917	56.25813	29.73909
SLC35E4	35.7992	37.87059	64.29501	27.07589
SLC35F1	0	0	32.1475	0
SLC35F2	99.07221	244.3264	8.036876	198.8524
SLC35F3	0.83254	67.18975	24.11063	21.74948
SLC35F4	0	0.610816	24.11063	4.43867
SLC35F5	36.63174	174.6934	116.5347	174.8836
SLC35G1	4.995237	4.275712	4.018438	1.775468
SLC35G3	0	0.610816	0	0
SLC35G5	0	0	0	0
SLC35G6	0	0	0	0.443867
SLC36A1	81.58888	9.773055	4.018438	30.62682
SLC36A2	14.15317	0	40.18438	1.775468
SLC36A3	0.83254	0.610816	4.018438	0.887734
SLC36A4	15.81825	65.96812	0	30.62682

SLC37A1	1983.109	349.9975	44.20282	448.3057
SLC37A2	14.98571	36.03814	156.7191	67.91165
SLC37A3	121.5508	248.6021	92.42408	245.0146
SLC37A4	1063.153	550.956	152.7006	383.5011
SLC38A1	357.992	243.1047	24.11063	324.9107
SLC38A10	785.0848	1346.238	152.7006	1134.08
SLC38A11	3.330158	1.832448	0	1.331601
SLC38A2	242.269	334.7271	180.8297	336.0073
SLC38A3	0	0	36.16594	0.887734
SLC38A4	0	0.610816	0	0.443867
SLC38A5	1747.501	411.0791	52.23969	393.2662
SLC38A6	42.45952	43.36793	4.018438	32.40229
SLC38A7	22.47857	32.37325	32.1475	50.60084
SLC38A8	0.83254	0.610816	0	0
SLC38A9	37.46428	51.91936	56.25813	59.03431
SLC39A1	402.1166	2178.17	421.936	1917.949
SLC39A10	24.97619	80.01689	16.07375	98.09461
SLC39A11	486.2031	337.7812	48.22126	272.0905
SLC39A12	0	0.610816	0	0.443867
SLC39A13	435.4182	196.6827	341.5672	247.6778
SLC39A14	296.3841	312.127	56.25813	232.5863
SLC39A2	2.497619	1.221632	8.036876	0.887734
SLC39A3	411.2746	190.5746	140.6453	160.236
SLC39A4	1677.567	579.6643	32.1475	482.0396
SLC39A5	333.0158	28.09753	40.18438	7.545739
SLC39A6	19.14841	117.8875	52.23969	81.22766
SLC39A7	0	0	0	0
SLC39A8	74.92856	29.31917	4.018438	74.56966
SLC39A9	155.6849	357.9381	120.5531	387.9398
SLC3A1	12.48809	1013.344	16.07375	334.6757
SLC3A2	1567.672	796.504	683.1345	1025.333
SLC40A1	464.5571	575.9994	136.6269	537.523
SLC41A1	124.8809	32.37325	36.16594	164.6747
SLC41A2	39.9619	131.3254	0	98.53848
SLC41A3	678.5198	481.323	32.1475	303.605
SLC43A1	130.7087	9.773055	52.23969	14.64761
SLC43A2	50.78491	220.5046	44.20282	333.788
SLC43A3	352.1642	285.8619	120.5531	411.9086
SLC44A1	362.1547	380.5383	586.692	306.2682
SLC44A2	1153.067	938.8241	108.4978	1032.435
SLC44A3	208.9674	134.9903	4.018438	82.55927
SLC44A4	0	0	0	0
SLC44A5	0	17.10285	0	39.0603
SLC45A1	5.827777	0.610816	4.018438	7.545739
SLC45A2	0	6.718975	0	12.42828
SLC45A3	589.438	371.3761	48.22126	304.0489
SLC45A4	387.1309	64.74649	32.1475	102.5333

SLC46A1	12.48809	23.21101	48.22126	37.28483
SLC46A2	1.665079	0	4.018438	0.887734
SLC46A3	104.9	19.54611	0	38.61643
SLC47A1	1.665079	3.05408	8.036876	3.107069
SLC47A2	1.665079	0	0	0.887734
SLC48A1	151.5222	149.6499	482.2126	117.1809
SLC4A1	0	0	24.11063	0.443867
SLC4A10	0	0	4.018438	1.775468
SLC4A11	348.0015	188.1313	20.09219	390.603
SLC4A1AP	53.28253	104.4495	128.59	94.98754
SLC4A2	1366.197	1619.273	851.9089	1382.646
SLC4A3	23.31111	32.37325	285.3091	68.35552
SLC4A4	62.44047	72.6871	72.33188	56.37111
SLC4A5	79.09126	19.54611	12.05531	27.07589
SLC4A7	42.45952	14.04877	24.11063	36.3971
SLC4A8	4.995237	3.05408	44.20282	4.43867
SLC4A9	5.827777	3.664896	8.036876	5.770271
SLC50A1	720.9793	807.4987	285.3091	729.2735
SLC5A1	1560.179	1288.822	16.07375	176.6591
SLC5A10	98.23967	60.47078	0	62.14138
SLC5A11	1.665079	30.5408	24.11063	10.20894
SLC5A12	0.83254	1.221632	12.05531	0.443867
SLC5A2	44.95714	21.98937	20.09219	20.86175
SLC5A3	40.79444	17.71366	36.16594	26.63202
SLC5A4	0	0	8.036876	0
SLC5A5	6.660317	0	4.018438	0
SLC5A6	300.5468	142.3201	36.16594	126.5021
SLC5A7	1.665079	0	0	0
SLC5A8	0.83254	0	4.018438	0.443867
SLC5A9	71.5984	20.15693	8.036876	33.29003
SLC6A1	0	0	36.16594	0
SLC6A10P	0	1.832448	24.11063	4.43867
SLC6A11	0	0.610816	8.036876	0
SLC6A12	14.98571	0.610816	0	1.775468
SLC6A13	0	1.221632	16.07375	3.107069
SLC6A14	639.3904	549.1235	24.11063	501.1259
SLC6A15	3.330158	2.443264	0	0
SLC6A16	1.665079	0	0	3.107069
SLC6A17	0.83254	0	12.05531	1.331601
SLC6A18	0	0	0	0
SLC6A19	1.665079	0	4.018438	0.443867
SLC6A2	0	0.610816	20.09219	0
SLC6A20	268.0777	445.8956	32.1475	395.4855
SLC6A3	0	0	8.036876	0.887734
SLC6A4	0.83254	0	16.07375	0.443867
SLC6A5	0	0	0	0
SLC6A6	139.8666	242.4939	128.59	253.4481

SLC6A7	6.660317	3.664896	44.20282	5.770271
SLC6A8	2153.78	433.0685	450.0651	369.2974
SLC6A9	218.9579	10.99469	56.25813	29.29522
SLC7A1	503.6864	180.8015	12.05531	129.1653
SLC7A10	0	0	4.018438	0.443867
SLC7A11	180.6611	73.29791	4.018438	66.58005
SLC7A13	0	0	8.036876	0.443867
SLC7A14	0	0	16.07375	1.331601
SLC7A2	6.660317	15.2704	20.09219	58.14658
SLC7A3	4.162698	0	8.036876	0.443867
SLC7A4	90.74681	1.832448	4.018438	2.663202
SLC7A5	1010.703	62.91404	8.036876	133.604
SLC7A5P1	1.665079	0	0	0.887734
SLC7A5P2	2.497619	8.551423	16.07375	3.107069
SLC7A6	188.9865	164.3095	64.29501	231.6986
SLC7A6OS	19.14841	31.15161	84.3872	27.51976
SLC7A7	427.9253	184.4664	317.4566	188.1996
SLC7A8	99.90475	4.886528	76.35032	19.08628
SLC7A9	0	19.54611	0	12.42828
SLC8A1	2.497619	9.162239	48.22126	19.53015
SLC8A2	2.497619	2.443264	28.12907	1.775468
SLC8A3	1.665079	1.832448	20.09219	0.887734
SLC9A1	686.0126	505.7556	269.2353	361.3078
SLC9A10	7.492856	4.275712	0	1.331601
SLC9A11	1.665079	0	0	0.443867
SLC9A2	12.48809	147.8175	8.036876	48.3815
SLC9A3	167.3405	34.81651	8.036876	83.00313
SLC9A3R1	1773.309	1770.145	245.1247	1619.227
SLC9A3R2	546.9785	1777.474	562.5813	922.7995
SLC9A4	4.995237	26.8759	12.05531	15.97921
SLC9A5	6.660317	14.04877	44.20282	55.92724
SLC9A6	50.78491	89.17913	208.9588	76.34513
SLC9A7	10.82301	19.54611	4.018438	23.52495
SLC9A7P1	0	0	0	2.663202
SLC9A8	265.5801	338.392	40.18438	478.4886
SLC9A9	2.497619	6.718975	88.40564	9.321207
SLC9B1	6.660317	3.664896	0	0.887734
SLC9B2	250.5944	106.282	4.018438	85.22247
SLCO1A2	0	7.329791	0	7.101872
SLCO1B1	0	0	0	0.887734
SLCO1B3	0	1.832448	0	24.41269
SLCO1B7	0	0	0	0.887734
SLCO1C1	0	0	4.018438	0.443867
SLCO2A1	49.95237	4.275712	8.036876	10.65281
SLCO2B1	72.43094	25.04345	36.16594	24.41269
SLCO3A1	218.9579	171.6393	192.885	288.5136
SLCO4A1	527.8301	18.93529	4.018438	31.07069



SLCO4C1	0	9.773055	12.05531	5.326404
SLCO5A1	4.162698	0	4.018438	0.443867
SLCO6A1	0	0	0	0
SLED1	1.665079	0	0	0
SLFN11	0.83254	3.05408	4.018438	3.107069
SLFN12	14.15317	39.09222	0	36.3971
SLFN12L	0	1.832448	0	6.214138
SLFN13	407.9444	243.7156	4.018438	327.5739
SLFN14	0	0.610816	0	0
SLFN5	35.7992	78.79526	4.018438	140.262
SLFNL1	0	0	0	3.550936
SLIRP	369.6476	387.8681	204.9403	232.1425
SLIT1	4.995237	1.832448	60.27657	9.765074
SLIT2	13.32063	17.10285	52.23969	58.59045
SLIT2-IT1	0	0	0	0
SLIT3	74.09602	88.56831	574.6366	150.0271
SLITRK1	0	0	64.29501	0.443867
SLITRK2	2.497619	1.221632	16.07375	0.887734
SLITRK3	0	0	24.11063	0
SLITRK4	0	2.443264	20.09219	0.443867
SLITRK5	0	0.610816	28.12907	0
SLITRK6	3.330158	32.37325	12.05531	26.63202
SLK	273.073	225.3911	269.2353	186.4241
SLMAP	105.7325	119.1091	301.3829	147.8077
SLMO1	43.29206	26.26509	4.018438	21.30562
SLMO2	81.58888	88.56831	4.018438	71.46259
SLMO2-AT	0	0	0	0
SLN	0	0	0	0
SLPI	5006.893	4111.402	64.29501	5202.565
SLTM	267.2452	487.4311	574.6366	631.6228
SLU7	212.2976	196.0719	144.6638	148.6955
SLURP1	13.32063	0.610816	0	1.331601
SLX1A	0	0	0	0
SLX1A-SUL	0	0	0	0
SLX1B	0	0	0	0
SLX1B-SUL	0	0	0	0
SLX4	94.90951	61.69241	0	80.7838
SMA4	0	0	0	0
SMA5	0	4.886528	0	2.663202
SMAD1	33.30158	49.47609	76.35032	75.45739
SMAD2	94.07697	241.2723	405.8622	204.6227
SMAD3	365.4849	758.6334	84.3872	1082.592
SMAD4	97.40713	13.43795	341.5672	35.06549
SMAD5	94.07697	75.13036	104.4794	83.447
SMAD5-AS	4.995237	1.221632	0	0.887734
SMAD6	79.9238	323.7325	108.4978	234.3618
SMAD7	47.45476	31.76243	132.6085	62.14138

SMAD9	1.665079	4.275712	40.18438	7.545739
SMAGP	554.4714	207.0666	52.23969	145.1445
SMAP1	128.2111	79.40607	570.6182	86.55407
SMAP2	254.7571	91.01158	888.0748	146.4761
SMARCA1	48.2873	268.1482	172.7928	215.2755
SMARCA2	109.0627	235.1641	1297.955	276.973
SMARCA4	984.0618	530.1882	823.7798	542.4055
SMARCA5	258.0873	523.4693	827.7982	391.4907
SMARCAD	46.62222	112.3901	180.8297	115.8493
SMARCAL1	141.5317	167.3636	313.4382	142.0374
SMARCB1	485.3706	615.0917	1088.997	321.8036
SMARCC1	308.0396	230.8884	140.6453	241.0198
SMARCC2	676.8547	353.6624	675.0976	497.5749
SMARCD1	376.3079	156.3689	216.9957	166.894
SMARCD2	621.9071	1022.506	992.5542	678.6727
SMARCD3	91.57935	51.91936	659.0238	70.13099
SMARCE1	440.4134	674.3408	1301.974	548.1758
SMC1A	328.0206	259.5968	1932.869	423.4491
SMC1B	2.497619	4.275712	4.018438	8.433473
SMC2	72.43094	48.86528	8.036876	36.84096
SMC3	63.27301	130.7146	313.4382	111.4106
SMC4	397.9539	188.7421	265.2169	199.7402
SMC5	109.8952	78.79526	225.0325	91.88047
SMC6	57.44523	149.0391	409.8807	105.1965
SMCHD1	44.1246	183.2448	120.5531	197.5208
SMCP	0	0	0	0
SMCR5	0	1.221632	0	0.443867
SMCR7	43.29206	53.7518	16.07375	80.7838
SMCR7L	252.2595	280.3645	60.27657	197.077
SMCR8	73.26348	58.02752	8.036876	123.8389
SMCR9	0	0	0	0
SMEK1	311.3698	276.6996	799.6692	313.814
SMEK2	89.91427	148.4283	168.7744	171.7765
SMEK3P	0	0	4.018438	0
SMG1	129.0436	260.8184	192.885	402.5874
SMG5	1516.887	1342.573	293.346	1400.4
SMG6	144.8619	136.8228	212.9772	159.7921
SMG7	576.1174	459.9444	200.9219	673.3463
SMG8	19.14841	134.9903	112.5163	127.3898
SMG9	448.7388	521.6368	357.641	284.0749
SMN1	0	0	0	0
SMN2	0	0	0	0
SMNDC1	76.59364	48.25446	293.346	56.81498
SMO	21.64603	16.49203	285.3091	50.15697
SMOC1	1.665079	1.221632	40.18438	11.98441
SMOC2	3.330158	19.54611	409.8807	29.29522
SMOX	143.1968	440.3983	458.1019	388.3836

SMPD1	94.90951	103.8387	104.4794	127.3898
SMPD2	691.0078	167.9744	124.5716	120.7318
SMPD3	472.0499	511.8638	96.44251	411.9086
SMPD4	271.4079	378.0951	24.11063	304.9366
SMPDL3A	44.95714	39.09222	357.641	56.81498
SMPDL3B	108.2301	263.2617	12.05531	223.709
SMPX	0	0.610816	36.16594	5.326404
SMR3A	0	0	0	0
SMR3B	0	0	0	0
SMS	487.0357	332.8947	168.7744	290.289
SMTN	499.5237	373.2085	1044.794	311.1508
SMTNL1	4.995237	0	48.22126	3.107069
SMTNL2	0	2.443264	32.1475	2.219335
SMU1	267.2452	357.9381	855.9273	247.2339
SMUG1	456.2317	230.2776	0	181.5416
SMURF1	283.896	394.5871	76.35032	394.5978
SMURF2	12.48809	76.96281	60.27657	78.1206
SMYD1	0.83254	0	20.09219	0
SMYD2	152.3547	370.1545	807.706	256.999
SMYD3	129.0436	122.1632	188.8666	88.32954
SMYD4	9.157935	38.48141	0	32.84616
SMYD5	291.3889	206.4558	104.4794	185.5364
SNAI1	8.325396	11.6055	60.27657	22.19335
SNAI2	0	6.718975	40.18438	13.31601
SNAI3	4.995237	4.275712	4.018438	2.219335
SNAP23	45.78968	185.0772	164.756	237.4689
SNAP25	0	2.443264	4.018438	19.53015
SNAP29	194.8143	299.9106	48.22126	166.894
SNAP47	149.8571	205.845	44.20282	129.6092
SNAP91	0.83254	0.610816	20.09219	1.331601
SNAPC1	33.30158	50.08691	56.25813	50.15697
SNAPC2	138.2016	145.3742	48.22126	115.4054
SNAPC3	29.97142	94.67647	76.35032	83.00313
SNAPC4	563.6293	120.9416	8.036876	147.3639
SNAPC5	32.46904	107.5036	48.22126	84.33473
SNAPIN	121.5508	253.4886	60.27657	179.3223
SNAR-A1	0	0	0	0
SNAR-A10	0	0	0	0
SNAR-A11	0	0	0	0
SNAR-A12	0	0	0	0
SNAR-A13	0	0	0	0
SNAR-A14	0	0	0	0
SNAR-A2	0	0	0	0
SNAR-A3	0	0	0	0
SNAR-A4	0	0	0	0
SNAR-A5	0	0	0	0
SNAR-A6	0	0	0	0

SNAR-A7	0	0	0	0
SNAR-A8	0	0	0	0
SNAR-A9	0	0	0	0
SNAR-B1	0	0	0	0
SNAR-B2	0	0	0	0
SNAR-C1	0	0	0	0
SNAR-C2	0	0	0	0
SNAR-C3	0	0	0	0
SNAR-C4	0	0	0	0
SNAR-C5	0	0	0	0
SNAR-D	0	0	0	0
SNAR-E	0	0	0	0
SNAR-F	0	0	0	0
SNAR-G1	0	0	0	0
SNAR-G2	0	0	0	0
SNAR-H	0	0	0	0
SNAR-I	0	0	0	0
SNCA	0.83254	62.91404	4.018438	94.54367
SNCAIP	0.83254	1.221632	76.35032	32.84616
SNCB	0	0.610816	0	0
SNCG	24.14365	28.70835	446.0466	37.7287
SND1	1500.236	1597.895	1619.431	1256.588
SND1-IT1	0	0	0	1.775468
SNED1	6.660317	1.832448	28.12907	26.18815
SNF8	540.3182	735.4224	2704.409	497.5749
SNHG1	1522.715	502.7015	8.036876	464.2849
SNHG10	181.4936	91.01158	0	89.21727
SNHG11	175.6659	183.2448	0	145.1445
SNHG12	1069.813	268.759	4.018438	257.8867
SNHG15	462.892	213.7856	0	96.76301
SNHG3	1055.66	198.5152	0	162.8992
SNHG4	16.65079	5.497344	0	9.765074
SNHG5	577.7825	1244.843	16.07375	520.656
SNHG6	1472.763	338.392	8.036876	233.4741
SNHG7	559.4666	422.0738	4.018438	229.9231
SNHG8	1612.629	751.3036	8.036876	385.2766
SNHG9	216.4603	17.71366	0	20.86175
SNIP1	64.10555	48.86528	44.20282	57.70271
SNN	55.78015	91.01158	64.29501	144.2568
SNORA1	0	0	0	1.331601
SNORA10	44.1246	10.99469	0	4.882537
SNORA11	1.665079	0	0	2.219335
SNORA11B	0	0	0	0
SNORA11C	0	0	0	0
SNORA11D	0	0	0	0
SNORA11E	0	0	0	0
SNORA12	7.492856	6.718975	0	0.443867

SNORA13	4.995237	2.443264	0	1.331601
SNORA14A	0	0.610816	0	0.443867
SNORA14B	0.83254	4.275712	4.018438	1.775468
SNORA15	0	0	0	0
SNORA16A	9.990475	9.162239	12.05531	2.663202
SNORA16B	0	0	4.018438	0.887734
SNORA17	0	0	0	0
SNORA18	21.64603	18.32448	4.018438	11.98441
SNORA19	0	0	0	0
SNORA20	0	0.610816	0	0
SNORA21	7.492856	7.940607	0	0.887734
SNORA22	1.665079	1.221632	0	0
SNORA23	0	20.76774	0	0
SNORA24	55.78015	28.70835	4.018438	14.20374
SNORA25	29.97142	14.65958	8.036876	11.98441
SNORA26	8.325396	5.497344	4.018438	7.101872
SNORA27	3.330158	4.275712	8.036876	0.443867
SNORA28	0	3.05408	0	0
SNORA29	0	0	0	0.443867
SNORA2A	0	0	0	0
SNORA2B	0	0	0	0
SNORA3	4.995237	4.886528	0	3.107069
SNORA30	0	0	0	0
SNORA31	29.97142	17.71366	36.16594	9.765074
SNORA32	4.162698	6.10816	12.05531	4.882537
SNORA33	19.14841	2.443264	0	2.219335
SNORA34	0	0.610816	0	0.887734
SNORA35	0	0	0	0
SNORA36A	0	0	0	0.887734
SNORA36B	0	0	0	0
SNORA36C	0	0	0	0
SNORA37	0	1.832448	0	0
SNORA38	0	0	0	0
SNORA38B	0	3.664896	0	0
SNORA39	1.665079	1.221632	0	1.775468
SNORA4	4.995237	6.10816	0	10.65281
SNORA40	2.497619	4.886528	0	5.326404
SNORA41	0.83254	7.329791	4.018438	0.443867
SNORA42	0	0.610816	0	0.443867
SNORA43	0	0	0	0
SNORA44	8.325396	1.221632	0	2.663202
SNORA45	26.64127	3.05408	0	3.550936
SNORA46	2.497619	6.10816	0	0
SNORA47	0	0.610816	12.05531	0
SNORA48	4.162698	20.76774	0	3.550936
SNORA49	0	1.832448	0	0
SNORA50	0	2.443264	0	0.443867

SNORA51	0.83254	0	0	0
SNORA52	16.65079	6.718975	0	3.994803
SNORA53	4.162698	8.551423	0	0.887734
SNORA54	0	0.610816	0	0
SNORA55	0	0.610816	0	0
SNORA56	4.162698	4.275712	0	3.994803
SNORA57	111.5603	58.63833	28.12907	15.53535
SNORA58	0	0	0	0
SNORA59A	0	0	0	0
SNORA59B	0	0	0	0
SNORA5A	1.665079	9.162239	0	2.663202
SNORA5B	0	0	0	0.443867
SNORA5C	0.83254	0.610816	4.018438	2.219335
SNORA6	3.330158	2.443264	0	1.775468
SNORA60	3.330158	7.329791	0	3.994803
SNORA61	129.0436	50.69772	0	32.84616
SNORA62	10.82301	5.497344	4.018438	2.663202
SNORA63	12.48809	54.97344	20.09219	7.545739
SNORA64	29.13889	29.31917	4.018438	5.770271
SNORA65	12.48809	4.275712	12.05531	3.994803
SNORA66	4.162698	1.832448	4.018438	0.887734
SNORA67	49.11984	18.93529	4.018438	30.18296
SNORA68	9.157935	7.329791	0	0
SNORA69	1.665079	0	12.05531	0.443867
SNORA70	69.93332	131.9362	0	78.1206
SNORA70B	0	1.832448	0	0
SNORA70C	0	0	0	0
SNORA70D	0	0	0	0
SNORA70E	0	0	0	0
SNORA70F	0	0	0	0.443867
SNORA70G	0	0	0	0
SNORA71A	0	5.497344	0	0
SNORA71B	0	1.832448	0	0
SNORA71C	0.83254	2.443264	0	0
SNORA71D	0	6.10816	4.018438	0
SNORA72	5.827777	4.275712	0	2.219335
SNORA74A	9.990475	8.551423	0	0.443867
SNORA74B	2.497619	8.551423	4.018438	0.887734
SNORA75	4.162698	3.664896	8.036876	2.663202
SNORA76	11.65555	17.71366	0	3.550936
SNORA77	3.330158	0	0	0.443867
SNORA78	12.48809	6.10816	0	5.770271
SNORA79	0	0	0	0
SNORA7A	0	0	0	0
SNORA7B	0	3.664896	0	0.443867
SNORA8	24.97619	25.04345	0	15.09148
SNORA80	0	6.718975	0	0









SNORD123	0	0	0	0.443867
SNORD124	2.497619	0	0	1.775468
SNORD125	0	0	0	0
SNORD126	0	0	0	0
SNORD127	0	1.221632	0	0
SNORD12E	1.665079	3.05408	0	1.775468
SNORD12C	0	0	0	2.219335
SNORD15A	2.497619	15.2704	0	0.443867
SNORD15E	20.81349	39.09222	44.20282	2.663202
SNORD16	0	0.610816	4.018438	3.550936
SNORD17	14.98571	72.6871	24.11063	0.443867
SNORD18A	0	0	0	0
SNORD18E	0	0.610816	0	0.443867
SNORD18C	2.497619	1.832448	0	2.219335
SNORD19	0	1.221632	0	1.331601
SNORD19E	0	1.221632	0	3.107069
SNORD1A	0	0.610816	0	0
SNORD1B	0	0	0	0
SNORD1C	0.83254	1.221632	0	0.887734
SNORD2	1.665079	2.443264	0	4.882537
SNORD20	0	4.275712	4.018438	1.331601
SNORD21	0.83254	1.221632	4.018438	0.887734
SNORD22	78.25872	58.63833	28.12907	33.73389
SNORD23	6.660317	4.275712	0	4.43867
SNORD24	0	0.610816	0	0.887734
SNORD25	9.157935	2.443264	0	3.550936
SNORD26	0.83254	3.664896	0	3.994803
SNORD27	2.497619	3.664896	0	5.770271
SNORD28	0.83254	0	0	1.331601
SNORD29	2.497619	5.497344	0	7.545739
SNORD30	4.995237	1.832448	0	1.331601
SNORD31	7.492856	9.162239	0	9.765074
SNORD32A	9.990475	2.443264	8.036876	7.101872
SNORD32E	0	0	0	0
SNORD33	4.995237	2.443264	20.09219	3.550936
SNORD34	8.325396	10.38387	4.018438	5.770271
SNORD35A	14.98571	20.15693	0	8.87734
SNORD35E	25.80873	17.10285	4.018438	7.101872
SNORD36A	42.45952	12.82714	4.018438	14.20374
SNORD36E	3.330158	3.05408	0	0.887734
SNORD36C	9.157935	4.886528	8.036876	7.545739
SNORD37	0	0	0	1.331601
SNORD38A	9.990475	4.886528	0	4.882537
SNORD38E	22.47857	9.773055	0	3.994803
SNORD41	0	0	0	0
SNORD42A	0	3.05408	0	2.219335
SNORD42E	0	0	0	1.331601

SNORD43	1.665079	1.832448	0	0.887734
SNORD44	0.83254	3.05408	0	3.107069
SNORD45A	0	0.610816	0	0.887734
SNORD45E	1.665079	0.610816	0	0.443867
SNORD45C	0	0	0	0.887734
SNORD46	5.827777	1.832448	4.018438	0.887734
SNORD47	39.9619	15.88121	0	10.20894
SNORD48	0	0	0	0
SNORD49A	2.497619	6.10816	0	6.214138
SNORD49E	0	1.221632	0	0.443867
SNORD4A	9.157935	7.940607	0	3.550936
SNORD4B	1.665079	2.443264	0	0
SNORD5	0.83254	0.610816	0	1.331601
SNORD50A	6.660317	0	0	0.443867
SNORD50E	6.660317	1.221632	0	0.887734
SNORD51	2.497619	0.610816	12.05531	0.887734
SNORD52	0	0	0	0
SNORD53	0	0.610816	4.018438	0
SNORD54	1.665079	1.832448	0	1.775468
SNORD55	2.497619	3.664896	4.018438	1.775468
SNORD56	8.325396	2.443264	8.036876	3.550936
SNORD56E	0	0	0	0
SNORD57	10.82301	1.832448	0	11.09668
SNORD58A	0.83254	1.832448	12.05531	2.219335
SNORD58E	0	0	0	0
SNORD58C	0.83254	1.832448	4.018438	1.331601
SNORD59A	0	0.610816	0	1.775468
SNORD59E	0	0.610816	0	0
SNORD6	1.665079	0	0	2.219335
SNORD60	49.11984	10.38387	0	5.770271
SNORD61	0	0	0	0
SNORD62A	0	0	0	0
SNORD62E	0	0	0	0
SNORD63	0	0	0	0
SNORD64	0	0	0	0
SNORD65	9.990475	3.664896	8.036876	4.43867
SNORD66	0	0	0	0
SNORD67	0	0	0	0
SNORD68	27.47381	12.82714	0	6.658005
SNORD69	0.83254	1.221632	0	0.443867
SNORD7	3.330158	1.221632	4.018438	0.443867
SNORD70	0	0	0	0
SNORD71	0	0	0	0
SNORD72	0	0	0	0
SNORD73A	16.65079	12.21632	0	11.98441
SNORD74	0.83254	1.832448	0	5.326404
SNORD75	0	0	0	0.887734

SNORD76	13.32063	28.70835	0	20.86175
SNORD77	0	0	0	0.443867
SNORD78	4.995237	6.718975	8.036876	3.107069
SNORD79	9.157935	9.162239	0	5.770271
SNORD8	0	0	0	0.443867
SNORD80	8.325396	9.773055	0	11.09668
SNORD81	26.64127	9.773055	24.11063	7.101872
SNORD82	0	0	0	0
SNORD83A	4.995237	2.443264	0	2.219335
SNORD83E	42.45952	14.65958	12.05531	5.326404
SNORD84	0	0	0	0
SNORD85	0	0	0	0
SNORD86	0	0	0	0
SNORD87	27.47381	4.886528	8.036876	1.775468
SNORD88A	3.330158	0.610816	0	0.887734
SNORD88E	19.14841	2.443264	0	3.550936
SNORD88C	0	0.610816	0	3.107069
SNORD89	0.83254	1.832448	0	3.994803
SNORD9	0	0.610816	0	1.331601
SNORD90	0	0	0	0
SNORD91A	0	0	0	0.443867
SNORD91E	1.665079	2.443264	0	0
SNORD92	0	0	0	0
SNORD93	0	0	0	0
SNORD94	4.995237	9.773055	8.036876	1.331601
SNORD95	1.665079	0.610816	0	1.331601
SNORD96A	15.81825	5.497344	16.07375	7.989606
SNORD96E	0	0	0	0
SNORD97	0	6.10816	0	0.887734
SNORD98	0	0	4.018438	0
SNORD99	56.61269	10.38387	44.20282	9.321207
SNPH	40.79444	19.54611	8.036876	59.03431
SNRK	56.61269	53.14099	257.18	66.13619
SNRNP200	1138.082	1070.15	976.4804	1169.146
SNRNP25	387.1309	199.7368	281.2907	165.5624
SNRNP27	74.09602	115.4442	703.2267	94.09981
SNRNP35	348.0015	114.2226	48.22126	98.98235
SNRNP40	263.0825	322.5108	277.2722	183.3171
SNRNP48	79.9238	63.52486	245.1247	73.68193
SNRNP70	4043.645	3367.428	2153.883	1833.615
SNRPA	1469.432	517.3611	739.3926	444.3109
SNRPA1	272.2404	208.2882	180.8297	219.2703
SNRPB	2695.763	1866.654	5252.099	1296.979
SNRPB2	294.719	346.9435	377.7332	164.2308
SNRPC	488.7007	676.1733	405.8622	475.3816
SNRPD1	541.9833	310.9053	847.8904	175.7713
SNRPD2	2258.68	2462.199	1977.072	1053.296

SNRPD2P2	0	0	4.018438	0
SNRPD3	1229.661	1194.145	1619.431	701.3099
SNRPE	131.5413	229.6668	48.22126	109.1913
SNRPF	889.9848	282.8078	727.3373	174.8836
SNRPG	228.1158	226.0019	8.036876	133.604
SNRPN	0	0	0	0
SNTA1	93.24443	47.64364	642.9501	75.45739
SNTB1	145.6944	31.15161	20.09219	84.7786
SNTB2	54.94761	48.25446	168.7744	49.26924
SNTG1	0	0	0	0
SNTG2	0	0	28.12907	0
SNTN	9.157935	0.610816	0	3.994803
SNUPN	100.7373	227.8344	92.42408	175.7713
SNURF	0	0	0	0
SNW1	202.3071	362.2139	1097.034	306.2682
SNX1	318.8627	596.7672	1888.666	794.9658
SNX10	3.330158	9.773055	64.29501	21.74948
SNX11	149.8571	238.829	116.5347	158.9044
SNX12	294.719	625.4755	421.936	351.9865
SNX13	40.79444	120.9416	253.1616	125.1705
SNX14	135.704	309.0729	204.9403	199.7402
SNX15	0	0	0	0
SNX16	9.990475	29.92998	12.05531	23.52495
SNX17	646.8833	964.4784	2431.155	650.709
SNX18	66.60317	71.46547	313.4382	106.972
SNX19	245.5992	221.1154	12.05531	287.6258
SNX2	222.2881	194.2395	2981.681	244.5707
SNX20	16.65079	10.99469	313.4382	13.75988
SNX21	188.1539	80.62771	450.0651	92.76821
SNX22	11.65555	17.10285	0	32.40229
SNX24	61.60793	52.53017	80.36876	54.59564
SNX25	54.11507	48.25446	120.5531	50.15697
SNX27	125.7135	173.4717	333.5304	283.1872
SNX29	41.62698	53.7518	80.36876	53.70791
SNX29P1	0	0.610816	0	0
SNX29P2	0	0	0	0.887734
SNX3	240.6039	282.197	2109.68	274.7537
SNX30	36.63174	17.71366	52.23969	22.63722
SNX31	0	0	0	1.331601
SNX32	15.81825	3.05408	128.59	9.765074
SNX33	106.5651	287.0835	76.35032	362.6394
SNX4	99.07221	122.774	546.5076	134.9356
SNX5	595.2658	682.8922	2109.68	535.3036
SNX6	94.90951	240.0507	317.4566	162.8992
SNX7	149.0246	332.8947	72.33188	142.0374
SNX8	220.623	516.1395	526.4154	480.708
SNX9	234.7762	285.8619	779.577	317.3649

SOAT1	100.7373	286.4727	52.23969	278.7485
SOAT2	5.827777	2.443264	28.12907	7.545739
SOBP	4.162698	5.497344	148.6822	3.107069
SOCS1	150.6897	10.38387	136.6269	35.50936
SOCS2	22.47857	23.82182	144.6638	14.64761
SOCS3	223.9531	77.57363	249.1432	192.6383
SOCS4	26.64127	38.48141	68.31345	58.59045
SOCS5	16.65079	32.37325	96.44251	39.50416
SOCS6	42.45952	117.8875	148.6822	72.35032
SOCS7	78.25872	81.84934	281.2907	109.1913
SOD1	10066.24	2299.111	5850.846	1341.81
SOD2	432.9206	130.7146	1052.831	427.0001
SOD3	7.492856	47.64364	180.8297	151.8025
SOHLH1	0	1.832448	0	0
SOHLH2	0	0	0	0
SOLH	1114.77	353.6624	152.7006	388.8275
SON	818.3864	582.1076	2222.196	778.5428
SORBS1	7.492856	7.940607	96.44251	27.96362
SORBS2	104.0674	95.28729	60.27657	192.1944
SORBS3	238.1063	389.7006	438.0097	403.919
SORCS1	0	0	20.09219	0
SORCS2	3.330158	5.497344	0	13.31601
SORCS3	0	0	4.018438	0
SORD	184.8238	93.45484	56.25813	81.22766
SORL1	168.173	304.7972	184.8482	314.2578
SORT1	530.3277	445.8956	100.461	469.1674
SOS1	99.90475	106.282	168.7744	124.2828
SOS2	24.97619	48.86528	152.7006	75.45739
SOST	0	0	4.018438	0
SOSTDC1	0	0.610816	36.16594	3.107069
SOWAHA	30.80396	4.275712	8.036876	3.994803
SOWAHB	20.81349	31.15161	8.036876	40.83577
SOWAHC	42.45952	57.4167	16.07375	35.06549
SOWAHD	8.325396	2.443264	0	1.331601
SOX1	0	0	52.23969	0
SOX10	0	0.610816	36.16594	0
SOX11	0	0.610816	16.07375	0.443867
SOX12	83.25396	70.85465	116.5347	112.2984
SOX13	252.2595	160.0338	48.22126	119.4002
SOX14	0	0	20.09219	0
SOX15	0.83254	4.275712	0	11.98441
SOX17	0	3.05408	68.31345	11.54054
SOX18	5.827777	18.93529	277.2722	42.16737
SOX2	1.665079	1.221632	24.11063	2.663202
SOX2-OT	0	0	12.05531	0
SOX21	0	3.05408	12.05531	3.994803
SOX3	0	0	4.018438	0

SOX30	0	0	4.018438	0.443867
SOX4	228.9484	403.7493	795.6507	505.5645
SOX5	0.83254	0	16.07375	1.331601
SOX6	23.31111	21.37856	16.07375	24.85655
SOX7	2.497619	1.221632	32.1475	21.74948
SOX8	1.665079	0.610816	0	3.107069
SOX9	410.442	586.9941	36.16594	428.3317
SP1	458.7293	260.8184	196.9035	434.5458
SP100	302.2119	591.2698	116.5347	506.0084
SP110	88.2492	218.6721	0	148.2516
SP140	23.31111	9.773055	76.35032	15.53535
SP140L	200.642	151.4824	64.29501	188.6435
SP2	46.62222	67.80057	104.4794	83.00313
SP3	101.5698	210.1207	534.4523	257.8867
SP4	1.665079	18.93529	12.05531	16.42308
SP5	12.48809	64.13568	48.22126	67.46779
SP6	28.30635	4.886528	68.31345	10.65281
SP7	0	0.610816	20.09219	0
SP8	0	0	20.09219	0.887734
SP9	0	0	12.05531	0
SPA17	53.28253	73.90873	4.018438	29.29522
SPACA1	0	0	4.018438	0
SPACA3	0	0	0	0
SPACA4	48.2873	49.47609	0	17.75468
SPACA5	0	0	0	0
SPACA5B	0	0	0	0
SPACA7	0	0	0	0
SPAG1	109.0627	161.2554	0	151.3587
SPAG11A	0	0	0	0
SPAG11B	0	0	0	0
SPAG16	106.5651	272.4239	4.018438	170.8888
SPAG17	25.80873	39.09222	8.036876	71.46259
SPAG4	124.8809	218.6721	16.07375	204.1788
SPAG5	512.0118	384.2032	12.05531	319.5843
SPAG5-AS1	0.83254	5.497344	0	5.770271
SPAG6	1.665079	0.610816	0	0.887734
SPAG7	503.6864	502.7015	936.2961	339.1144
SPAG8	168.173	27.48672	4.018438	30.18296
SPAG9	104.9	294.4133	442.0282	281.8556
SPAM1	0	0	0	0
SPANXA1	0	0	0	0
SPANXA2	0	0	0	0
SPANXA2-C	0	0	0	0
SPANXB1	0	0	0	0
SPANXB2	0	0	0	0
SPANXC	0	0	0	0
SPANXD	0	0	0	0

SPANXE	0	0	0	0
SPANXF1	0	0	0	0
SPANXN1	0	0	0	0
SPANXN2	0	0	0	0
SPANXN3	0	0	0	0.887734
SPANXN4	0	0	0	0
SPANXN5	0	0	0	0
SPARC	545.3134	990.1327	9716.583	1874.007
SPARCL1	54.94761	332.8947	3226.806	315.1456
SPAST	17.48333	35.42733	265.2169	37.28483
SPATA12	0	12.21632	0	5.770271
SPATA13	166.5079	156.3689	12.05531	148.6955
SPATA16	0	0	0	0
SPATA17	26.64127	15.2704	0	12.42828
SPATA18	29.13889	57.4167	4.018438	46.60604
SPATA19	0	0	0	0
SPATA2	160.6801	122.774	40.18438	117.1809
SPATA20	668.5293	816.6609	12.05531	748.3598
SPATA21	0	0	4.018438	0
SPATA22	0	0	0	0
SPATA24	29.97142	17.71366	124.5716	20.86175
SPATA25	0.83254	1.832448	12.05531	5.326404
SPATA2L	282.2309	164.3095	12.05531	79.89606
SPATA3	0	0	0	0
SPATA4	0	0	0	0.443867
SPATA5	23.31111	42.1463	56.25813	30.62682
SPATA5L1	34.96666	71.46547	92.42408	66.13619
SPATA6	69.93332	52.53017	168.7744	53.70791
SPATA7	38.29682	47.64364	4.018438	28.85136
SPATA8	0	0	0	0
SPATA9	0	1.221632	0	2.663202
SPATC1	3.330158	0.610816	24.11063	7.989606
SPATS1	0	0	0	0
SPATS2	168.173	76.35199	76.35032	71.46259
SPATS2L	542.8158	1921.016	64.29501	1137.631
SPC24	46.62222	23.82182	0	15.53535
SPC25	23.31111	61.0816	16.07375	20.41788
SPCS1	424.5952	672.5084	1792.223	586.7922
SPCS2	68.26825	162.477	100.461	140.7058
SPCS3	361.3222	458.112	96.44251	423.4491
SPDEF	442.9111	167.9744	16.07375	381.2818
SPDYA	1.665079	0.610816	0	2.219335
SPDYC	0.83254	0.610816	0	0.887734
SPDYE1	1.665079	4.886528	0	0.443867
SPDYE2	0	0	0	0
SPDYE2L	0	0	0	0
SPDYE3	5.827777	36.03814	8.036876	19.97402



SPDYE4	0	0	0	0
SPDYE5	1.665079	1.221632	0	2.663202
SPDYE6	2.497619	6.718975	0	5.326404
SPDYE7P	0.83254	1.221632	0	0
SPDYE8P	0	0	0	0
SPECC1	238.9389	334.1163	16.07375	288.9574
SPECC1L	203.1397	256.5427	56.25813	204.6227
SPEF1	200.642	21.98937	180.8297	34.62163
SPEF2	35.7992	20.76774	16.07375	20.86175
SPEG	31.6365	535.6856	498.2863	600.1082
SPEM1	0	0	0	0
SPEN	342.1738	177.1366	188.8666	257.8867
SPERT	12.48809	0	0	0.443867
SPESP1	0	0	0	0
SPG11	89.91427	341.4461	377.7332	399.9242
SPG20	0.83254	11.6055	32.1475	59.47818
SPG20OS	0	0	0	0.443867
SPG21	278.9008	320.0676	530.4338	395.4855
SPG7	960.7507	640.1351	522.3969	821.154
SPHAR	4.162698	1.221632	0	3.550936
SPHK1	59.94285	106.8928	20.09219	216.6071
SPHK2	190.6516	166.7528	80.36876	116.2932
SPHKAP	0.83254	0	16.07375	0.443867
SPI1	208.1349	68.41139	2820.944	138.4865
SPIB	1.665079	1.221632	4.018438	7.989606
SPIC	0	0	0	0
SPICE1	84.91904	63.52486	20.09219	79.89606
SPIN1	83.25396	128.2714	293.346	194.8576
SPIN2A	0	0	4.018438	0
SPIN2B	12.48809	6.718975	0	11.54054
SPIN3	69.93332	38.48141	0	107.4158
SPIN4	15.81825	31.15161	4.018438	31.95843
SPINK1	7412.1	353.6624	68.31345	2935.293
SPINK13	0	0	0	0
SPINK14	0	0	0	0.443867
SPINK2	0.83254	0	4.018438	0
SPINK4	305.542	7.940607	0	4.882537
SPINK5	190.6516	112.3901	8.036876	103.421
SPINK6	0.83254	1.221632	0	0.443867
SPINK7	2.497619	0	0	0
SPINK8	0	0.610816	0	0.443867
SPINK9	0	0	0	0
SPINLW1	0.83254	0	0	0.887734
SPINLW1-v	0	0	0	0
SPINT1	1437.796	2216.04	120.5531	3255.321
SPINT2	7597.756	10597.05	184.8482	5911.865
SPINT3	0	0	0	0

SPINT4	0	0.610816	0	0
SPIRE1	156.5174	74.51955	40.18438	217.051
SPIRE2	627.7348	157.5905	112.5163	147.8077
SPN	2.497619	1.832448	4.018438	0.443867
SPNS1	409.6095	285.2511	361.6594	308.4876
SPNS2	161.5127	625.4755	88.40564	944.9929
SPNS3	29.97142	37.87059	12.05531	73.68193
SPO11	0	0	0	0.443867
SPOCD1	1.665079	0	0	6.214138
SPOCK1	0	1.221632	8.036876	2.663202
SPOCK2	1.665079	7.940607	48.22126	17.31081
SPOCK3	0	9.773055	16.07375	8.87734
SPON1	18.31587	111.7793	180.8297	425.2246
SPON2	24.97619	510.6421	24.11063	914.3661
SPOP	115.723	159.423	1900.721	236.1373
SPOPL	44.95714	50.69772	52.23969	56.37111
SPP1	194.8143	1283.324	100.461	1044.863
SPP2	0	0	0	0
SPPL2A	23.31111	398.8628	60.27657	312.0385
SPPL2B	2058.038	521.026	52.23969	489.5853
SPPL2C	0.83254	0	0	0
SPPL3	422.9301	224.1695	172.7928	171.7765
SPR	522.0023	417.7981	136.6269	295.1716
SPRED1	26.64127	102.0063	124.5716	142.4813
SPRED2	78.25872	70.24383	180.8297	115.8493
SPRED3	4.995237	1.221632	12.05531	4.882537
SPRN	108.2301	113.001	0	69.68712
SPRNP1	0	0	0	0.443867
SPRR1A	8.325396	2.443264	0	2.663202
SPRR1B	0.83254	3.664896	8.036876	5.326404
SPRR2A	0	1.832448	4.018438	3.994803
SPRR2B	0	0	0	0
SPRR2C	0.83254	0	0	0
SPRR2D	0	0.610816	4.018438	1.331601
SPRR2E	2.497619	0	0	0
SPRR2F	0	0	0	0
SPRR2G	0	0	0	0.443867
SPRR3	3.330158	1.832448	12.05531	1.775468
SPRR4	0	0	4.018438	0.443867
SPRY1	32.46904	87.9575	8.036876	117.6248
SPRY2	59.11031	46.42201	164.756	44.3867
SPRY3	0	0	0	0
SPRY4	176.4984	112.3901	44.20282	162.4553
SPRYD3	511.1793	192.407	397.8254	149.5832
SPRYD4	126.546	98.95218	136.6269	91.43661
SPRYD5	0	0	0	0
SPRYD7	91.57935	89.78995	116.5347	40.83577

SPSB1	71.5984	67.18975	28.12907	78.56446
SPSB2	218.1254	412.9116	482.2126	351.0988
SPSB3	1571.835	494.7609	144.6638	560.1602
SPSB4	0.83254	0	40.18438	0.887734
SPTA1	0	0.610816	20.09219	0.443867
SPTAN1	1936.487	1225.908	2672.261	1489.618
SPTB	19.14841	29.31917	52.23969	43.0551
SPTBN1	1270.455	1698.679	2780.759	1683.144
SPTBN2	107.3976	492.9285	68.31345	458.9585
SPTBN4	11.65555	4.886528	120.5531	6.214138
SPTBN5	15.81825	80.01689	16.07375	182.8732
SPTLC1	160.6801	197.9044	20.09219	158.0167
SPTLC2	346.3365	356.1057	1036.757	369.7412
SPTLC3	22.47857	108.7252	0	172.2204
SPTSSA	132.3738	158.8121	928.2592	194.4138
SPTSSB	119.8857	158.2013	4.018438	156.6851
SPTY2D1	51.61745	68.41139	48.22126	58.59045
SPZ1	0	0	0	0
SQLE	296.3841	635.2486	20.09219	223.2651
SQRDL	358.8246	1355.401	317.4566	992.4867
SQSTM1	2948.855	2807.31	2503.487	2594.403
SRA1	678.5198	255.9319	667.0607	224.5967
SRBD1	29.97142	34.81651	44.20282	38.61643
SRC	778.4245	1097.025	546.5076	1109.224
SRCAP	769.2666	392.7547	594.7288	521.5437
SRCIN1	4.162698	3.664896	52.23969	15.97921
SRCRB4D	44.1246	26.26509	48.22126	21.30562
SRD5A1	99.90475	85.51423	4.018438	92.32434
SRD5A1P1	0	0	0	0
SRD5A2	0.83254	6.718975	0	16.86695
SRD5A3	1108.943	1614.387	40.18438	1237.945
SREBF1	1472.763	508.8097	446.0466	430.9949
SREBF2	467.8872	859.418	148.6822	509.5593
SREK1	349.6666	267.5374	156.7191	414.5718
SREK1IP1	169.0055	102.6171	128.59	83.89087
SRF	389.6285	304.1863	506.3232	255.6674
SRFBP1	27.47381	21.98937	28.12907	17.75468
SRG7	0	0	0	0
SRGAP1	101.5698	65.35731	148.6822	88.7734
SRGAP2	267.2452	208.2882	936.2961	286.7381
SRGAP2P2	0.83254	7.329791	0	5.326404
SRGAP3	11.65555	72.6871	216.9957	65.24845
SRGN	8.325396	1.832448	40.18438	6.658005
SRI	482.0404	2148.24	851.9089	858.4388
SRL	4.162698	1.832448	16.07375	1.331601
SRM	635.2277	226.0019	606.7841	217.4948
SRMS	13.32063	20.15693	0	29.29522

SRP14	340.5087	1332.8	237.0878	1116.326
SRP19	150.6897	150.2607	317.4566	87.4418
SRP54	184.8238	349.3867	876.0195	282.2994
SRP68	496.1936	743.9738	590.7104	509.1155
SRP72	191.4841	365.2679	333.5304	328.0177
SRP9	109.0627	255.3211	4.018438	155.7973
SRPK1	195.6468	367.7112	321.475	375.9554
SRPK2	42.45952	144.7634	221.0141	179.7661
SRPK3	7.492856	233.9425	60.27657	129.6092
SRPR	671.0269	943.7106	755.4664	1083.479
SRPRB	1312.915	628.5296	140.6453	500.2381
SRPX	7.492856	23.82182	245.1247	50.60084
SRPX2	29.13889	309.0729	128.59	260.1061
SRR	10.82301	11.6055	16.07375	13.75988
SRRD	169.8381	138.6552	24.11063	57.25885
SRRM1	260.5849	216.2288	160.7375	308.9314
SRRM2	3401.757	1891.086	888.0748	3205.164
SRRM3	0	4.275712	20.09219	3.550936
SRRM4	2.497619	1.221632	64.29501	1.775468
SRRM5	15.81825	14.65958	0	30.18296
SRRT	1608.466	1809.237	1876.611	2095.496
SRSF1	964.0808	1133.674	3676.871	1103.453
SRSF10	8.325396	5.497344	0	5.770271
SRSF11	530.3277	450.7822	417.9176	728.3858
SRSF12	0	7.329791	0	3.107069
SRSF2	2463.485	1387.774	4830.163	1260.582
SRSF3	859.1808	1078.701	1056.849	740.8141
SRSF4	735.965	502.0907	289.3275	670.6831
SRSF5	1165.555	1150.777	7229.17	1441.68
SRSF6	1103.115	1104.966	924.2408	1272.567
SRSF7	1103.947	810.5528	1506.914	639.1685
SRSF8	275.5706	394.5871	88.40564	308.0437
SRSF9	375.4753	340.8353	1330.103	273.866
SRXN1	362.1547	315.181	36.16594	255.6674
SRXN1	0	0	0	0
SS18	348.0015	213.1748	421.936	221.4896
SS18L1	136.5365	103.2279	24.11063	131.8285
SS18L2	237.2738	106.8928	80.36876	61.25365
SSB	346.3365	710.9898	92.42408	395.4855
SSBP1	606.9214	765.9632	385.7701	363.0832
SSBP2	45.78968	106.8928	538.4707	73.68193
SSBP3	124.8809	35.42733	72.33188	33.29003
SSBP4	665.1991	127.6605	1241.697	148.6955
SSC5D	5.827777	5.497344	221.0141	17.31081
SSFA2	358.8246	790.3958	180.8297	728.3858
SSH1	119.8857	53.7518	76.35032	98.53848
SSH2	122.3833	79.40607	156.7191	123.395

SSH3	615.2467	1076.869	104.4794	910.3713
SSNA1	884.157	443.4524	663.0423	272.5343
SSPN	27.47381	137.4336	32.1475	68.79939
SSPO	2.497619	4.886528	52.23969	7.101872
SSR1	154.0198	519.1936	486.231	622.7454
SSR2	1470.265	2594.746	791.6323	2072.859
SSR3	1289.604	975.4731	221.0141	755.0178
SSR4	2422.69	4851.1	1173.384	2839.861
SSR4P1	2.497619	6.718975	0	3.994803
SSRP1	1582.658	1301.038	2037.348	985.8286
SSSCA1	333.0158	291.97	140.6453	209.5052
SST	0	0	4.018438	0
SSTR1	8.325396	24.43264	4.018438	18.19855
SSTR2	4.162698	2.443264	16.07375	3.107069
SSTR3	0	0	0	0
SSTR4	0	0	4.018438	0
SSTR5	9.990475	0	0	0
SSU72	1404.494	1130.62	2475.358	904.1571
SSX1	0	0	0	0
SSX2	0	0	0	0
SSX2B	0	0	0	0
SSX2IP	59.11031	83.68179	4.018438	38.17256
SSX3	0	0	0	0
SSX4	0	0	0	0
SSX4B	0	0	0	0
SSX5	0	0	0	0
SSX6	0.83254	0	0	0
SSX7	0	0	0	0
SSX8	0	0	0	0
ST13	178.996	284.6402	212.9772	174.8836
ST13P4	1.665079	0	24.11063	0.887734
ST14	5856.916	3612.366	124.5716	3462.163
ST18	2.497619	0	20.09219	1.331601
ST20	2.497619	17.71366	0	15.97921
ST20-MTHI	0	0	0	0
ST3GAL1	657.7063	743.9738	128.59	1140.738
ST3GAL2	23.31111	30.5408	108.4978	67.91165
ST3GAL3	54.94761	47.64364	253.1616	39.94803
ST3GAL4	13.32063	222.337	180.8297	314.2578
ST3GAL5	127.3786	16.49203	24.11063	63.02912
ST3GAL6	78.25872	4.886528	48.22126	27.51976
ST5	880.8269	268.759	221.0141	412.7963
ST6GAL1	233.1111	363.4355	0	510.0032
ST6GAL2	0	0	4.018438	0
ST6GALNA	485.3706	281.5862	16.07375	232.5863
ST6GALNA	2.497619	69.0222	100.461	51.93244
ST6GALNA	0	0.610816	4.018438	2.663202

ST6GALNA	274.7381	122.1632	253.1616	133.604
ST6GALNA	0	0.610816	0	1.775468
ST6GALNA	123.2159	50.08691	305.4013	67.46779
ST7	119.0532	88.56831	128.59	81.22766
ST7-AS1	10.82301	7.940607	0	5.326404
ST7-AS2	0	0	0	0
ST7-OT3	0.83254	0.610816	0	1.331601
ST7-OT4	0	0	0	0.887734
ST7L	64.93809	87.9575	140.6453	76.78899
ST8SIA1	0	1.832448	8.036876	1.775468
ST8SIA2	0.83254	7.940607	12.05531	0
ST8SIA3	0	17.71366	4.018438	0.887734
ST8SIA4	1.665079	2.443264	56.25813	7.545739
ST8SIA5	0	0	32.1475	0.443867
ST8SIA6	0.83254	1.832448	0	2.663202
STAB1	72.43094	76.35199	1739.984	220.158
STAB2	4.162698	6.10816	212.9772	5.770271
STAC	0	0.610816	8.036876	0
STAC2	27.47381	1.832448	241.1063	11.54054
STAC3	85.75158	6.10816	176.8113	9.765074
STAG1	56.61269	77.57363	321.475	95.87528
STAG2	119.0532	274.2564	980.4989	223.709
STAG3	0	31.15161	8.036876	39.50416
STAG3L1	0	1.221632	4.018438	0
STAG3L2	9.990475	18.32448	0	26.18815
STAG3L3	0.83254	2.443264	0	4.882537
STAG3L4	20.81349	31.15161	0	24.85655
STAM	36.63174	93.45484	48.22126	98.09461
STAM2	78.25872	131.3254	48.22126	123.395
STAMBP	174.0008	310.2945	40.18438	217.9387
STAMBPL1	112.3928	56.19507	124.5716	43.0551
STAP1	1.665079	1.221632	36.16594	1.775468
STAP2	1643.433	417.7981	36.16594	288.9574
STAR	5.827777	1.221632	16.07375	0.443867
STARD10	3499.164	3027.204	446.0466	2471.895
STARD13	63.27301	37.87059	48.22126	51.04471
STARD3	620.242	671.8975	261.1985	547.7319
STARD3NL	103.2349	221.1154	494.2679	133.604
STARD4	6.660317	32.37325	4.018438	15.53535
STARD5	66.60317	20.76774	48.22126	36.3971
STARD6	0.83254	0	4.018438	0
STARD7	641.0555	482.5446	237.0878	392.8223
STARD8	1.665079	4.886528	80.36876	29.73909
STARD9	10.82301	3.664896	48.22126	15.53535
STAT1	306.3746	634.6378	401.8438	554.3899
STAT2	296.3841	246.1588	52.23969	379.0624
STAT3	512.8444	603.4862	313.4382	828.6997

STAT4	9.157935	4.886528	68.31345	12.87214
STAT5A	169.8381	212.564	52.23969	177.5468
STAT5B	99.90475	199.7368	120.5531	139.8181
STAT6	2544.241	953.4837	345.5857	1039.093
STATH	0	0	0	0
STAU1	531.1603	638.3027	88.40564	722.1716
STAU2	69.93332	125.2173	80.36876	102.0894
STBD1	53.28253	59.24915	0	43.94283
STC1	0.83254	37.25977	72.33188	60.36591
STC2	189.819	0	28.12907	5.770271
STEAP1	91.57935	433.0685	4.018438	169.1133
STEAP1B	0	0	8.036876	1.775468
STEAP2	153.1873	283.4186	12.05531	338.6705
STEAP3	457.8968	266.3158	221.0141	374.6238
STEAP4	103.2349	142.9309	44.20282	314.2578
STH	0	0	0	0
STIL	100.7373	86.12505	4.018438	111.4106
STIM1	177.3309	188.7421	257.18	259.6622
STIM2	154.0198	119.1091	297.3644	129.6092
STIP1	964.9134	836.207	799.6692	849.1176
STK10	343.8388	125.8281	245.1247	206.842
STK11	1578.495	441.6199	703.2267	425.6685
STK11IP	681.0174	201.5693	120.5531	258.7745
STK16	272.2404	505.1448	602.7657	348.4356
STK17A	37.46428	89.78995	4.018438	77.67673
STK17B	55.78015	32.37325	28.12907	48.82537
STK19	5.827777	0	0	0
STK24	925.784	624.2539	241.1063	609.4294
STK25	1250.474	970.5866	944.3329	772.3286
STK3	99.90475	149.0391	40.18438	102.0894
STK31	44.1246	58.63833	0	35.06549
STK32A	0.83254	11.6055	0	17.31081
STK32B	0	0	8.036876	0
STK32C	223.1206	145.985	28.12907	138.4865
STK33	20.81349	0	0	2.219335
STK35	258.0873	207.0666	36.16594	253.0042
STK36	263.0825	316.4027	44.20282	729.2735
STK38	441.246	552.1776	313.4382	716.8452
STK38L	82.42142	112.3901	68.31345	129.1653
STK39	366.3174	574.7778	281.2907	313.3701
STK4	117.3881	91.01158	212.9772	128.2776
STK40	423.7626	363.4355	225.0325	326.6861
STL	0	4.886528	4.018438	2.219335
STMN1	1039.842	1235.681	916.2039	821.5979
STMN2	7.492856	4.886528	216.9957	19.08628
STMN3	111.5603	32.98406	8.036876	39.0603
STMN4	3.330158	1.832448	12.05531	1.775468

STOM	454.5666	282.197	64.29501	285.8504
STOML1	154.8524	318.8459	104.4794	268.0957
STOML2	726.8071	1446.412	847.8904	624.077
STOML3	0	0.610816	0	0
STON1	8.325396	1.221632	0	1.775468
STON1-GTI	0	0	0	0.887734
STON2	42.45952	55.58425	44.20282	49.26924
STOX1	4.995237	15.88121	0	18.64241
STOX2	14.15317	14.04877	24.11063	15.97921
STRA13	1086.464	911.9482	184.8482	466.9481
STRA6	2.497619	182.0232	12.05531	554.8338
STRA8	0	0.610816	0	0
STRADA	109.0627	178.3583	48.22126	169.1133
STRADB	19.14841	40.92467	20.09219	41.7235
STRAP	466.2222	974.2514	425.9544	727.498
STRBP	102.4024	81.23852	136.6269	90.54887
STRC	7.492856	6.10816	0	14.64761
STRN	103.2349	101.3954	257.18	98.09461
STRN3	55.78015	110.5577	534.4523	130.053
STRN4	581.9452	804.4446	273.2538	564.155
STS	158.1825	71.46547	4.018438	80.33993
STT3A	496.1936	1385.941	819.7614	1150.947
STT3B	89.08173	234.5533	196.9035	284.5188
STUB1	350.4992	263.2617	1012.646	241.4637
STX10	405.4468	221.1154	0	219.2703
STX11	8.325396	2.443264	40.18438	9.765074
STX12	141.5317	205.845	345.5857	171.3327
STX16	521.1698	399.4736	168.7744	413.2402
STX16-NPE	0.83254	0.610816	4.018438	0.443867
STX17	103.2349	67.80057	72.33188	86.1102
STX18	371.3127	216.2288	188.8666	242.3514
STX19	33.30158	21.37856	0	15.53535
STX1A	478.7103	481.9338	108.4978	432.3265
STX1B	15.81825	9.162239	52.23969	12.87214
STX2	109.8952	78.79526	56.25813	48.82537
STX3	300.5468	506.3664	68.31345	551.2828
STX4	686.8452	489.8744	4589.056	475.8254
STX5	432.9206	342.6678	872.0011	301.3857
STX6	169.8381	193.6287	229.051	173.9959
STX7	139.8666	153.3148	253.1616	142.9252
STX8	121.5508	169.8068	566.5998	79.4522
STXBP1	54.94761	7.940607	72.33188	17.31081
STXBP2	1521.05	724.4277	944.3329	601.4398
STXBP3	97.40713	125.8281	261.1985	93.65594
STXBP4	17.48333	11.6055	0	8.433473
STXBP5	59.94285	46.42201	160.7375	47.93764
STXBP5L	0	0.610816	20.09219	0



STXBP6	29.13889	70.24383	16.07375	13.31601
STYK1	72.43094	228.4452	8.036876	245.0146
STYX	25.80873	42.75712	72.33188	38.17256
STYXL1	448.7388	395.8087	12.05531	237.025
SUB1	594.4333	900.3427	1522.988	522.4315
SUCLA2	64.10555	99.563	703.2267	95.87528
SUCLG1	735.1324	574.7778	960.4067	305.8244
SUCLG2	141.5317	179.5799	88.40564	146.4761
SUCNR1	1.665079	2.443264	0	0.887734
SUDS3	221.4555	127.0497	361.6594	126.5021
SUFU	52.44999	32.37325	108.4978	52.37631
SUGP1	403.7817	150.8715	602.7657	163.3431
SUGP2	266.4127	193.0178	108.4978	197.077
SUGT1	216.4603	315.181	831.8167	150.9148
SUGT1P1	4.162698	1.221632	16.07375	6.214138
SUGT1P3	0	0.610816	24.11063	6.214138
SULF1	34.13412	31.76243	132.6085	74.12579
SULF2	474.5476	1960.108	277.2722	1233.506
SULT1A1	49.11984	172.2501	0	129.6092
SULT1A2	4.162698	12.82714	80.36876	12.87214
SULT1A3	0	0	0	0
SULT1A4	0	0	0	0
SULT1B1	13.32063	4.886528	0	1.331601
SULT1C2	227.2833	2.443264	4.018438	7.989606
SULT1C2P1	0.83254	0	0	0
SULT1C3	0	0	0	0
SULT1C4	0	0	0	0.887734
SULT1E1	32.46904	84.2926	4.018438	68.35552
SULT2A1	0	0.610816	0	0
SULT2B1	34.96666	208.2882	12.05531	97.65074
SULT4A1	0.83254	18.93529	16.07375	22.19335
SULT6B1	0	0	0	0
SUMF1	256.4222	276.0888	128.59	246.7901
SUMF2	348.0015	1318.752	112.5163	955.6457
SUMO1	289.7238	624.8647	727.3373	368.4096
SUMO1P1	0.83254	4.275712	72.33188	3.107069
SUMO1P3	1.665079	0	16.07375	0
SUMO2	140.6992	344.5002	429.9729	183.3171
SUMO3	691.8404	541.7938	683.1345	366.1903
SUMO4	2.497619	2.443264	56.25813	4.43867
SUN1	407.9444	499.0366	28.12907	722.6155
SUN2	942.4348	881.4074	225.0325	579.6903
SUN3	0	0	0	0.443867
SUN5	0	0	0	0
SUOX	139.0341	92.84402	52.23969	83.00313
SUPT16H	328.8531	502.7015	546.5076	461.1778
SUPT3H	33.30158	51.30854	160.7375	27.96362

SUPT4H1	160.6801	352.4408	446.0466	279.1924
SUPT5H	1323.738	1422.59	1776.15	1304.081
SUPT6H	944.0999	840.4828	960.4067	1116.326
SUPT7L	272.2404	287.0835	52.23969	322.2475
SUPV3L1	282.2309	201.5693	160.7375	181.9855
SURF1	586.1079	467.885	369.6963	264.5447
SURF2	331.3508	93.45484	32.1475	92.76821
SURF4	1700.046	1260.724	675.0976	1342.254
SURF6	620.242	263.2617	52.23969	238.8005
SUSD1	48.2873	84.2926	44.20282	86.55407
SUSD2	69.93332	12.82714	12.05531	31.95843
SUSD3	4.995237	1.832448	8.036876	3.107069
SUSD4	31.6365	4.886528	24.11063	47.49377
SUSD5	2.497619	0	0	2.663202
SUV39H1	176.4984	76.96281	68.31345	77.23286
SUV39H2	14.98571	45.20038	24.11063	38.61643
SUV420H1	209.8	257.1535	92.42408	228.1476
SUV420H2	343.8388	133.1579	200.9219	119.8441
SUZ12	69.93332	66.57894	212.9772	91.88047
SUZ12P	73.26348	23.82182	0	15.09148
SV2A	0.83254	1.832448	8.036876	2.663202
SV2B	0	1.221632	12.05531	0.443867
SV2C	4.162698	0	4.018438	0.887734
SVEP1	9.157935	40.31385	188.8666	123.8389
SVIL	45.78968	289.5268	176.8113	321.8036
SVIP	207.3024	89.78995	0	52.37631
SVOP	0	0	20.09219	0
SVOPL	0	9.162239	0	6.658005
SWAP70	61.60793	79.40607	156.7191	117.1809
SWI5	221.4555	102.0063	329.5119	106.972
SWSAP1	94.07697	29.31917	0	32.40229
SWT1	30.80396	25.04345	76.35032	27.96362
SYAP1	265.5801	219.8937	172.7928	178.8784
SYBU	159.0151	246.1588	44.20282	141.1497
SYCE1	0.83254	0.610816	0	1.331601
SYCE1L	338.8436	41.53548	0	47.0499
SYCE2	1.665079	3.05408	0	4.882537
SYCE3	0.83254	10.38387	0	2.663202
SYCN	0	0	0	0
SYCP1	0	0	4.018438	0
SYCP2	14.15317	7.329791	4.018438	11.09668
SYCP2L	0	1.832448	0	7.101872
SYCP3	0	0.610816	0	0.887734
SYDE1	11.65555	7.329791	120.5531	30.62682
SYDE2	4.995237	9.773055	4.018438	8.433473
SYF2	269.7428	389.7006	446.0466	237.9127
SYK	446.2412	149.0391	100.461	149.1393

SYMPK	1515.222	832.5421	1289.919	696.8712
SYN1	11.65555	3.05408	478.1941	3.994803
SYN2	0.83254	1.832448	64.29501	2.663202
SYN3	0.83254	4.886528	24.11063	9.765074
SYNC	1.665079	4.275712	4.018438	3.107069
SYNCRIP	515.342	425.7387	1137.218	379.9502
SYNDIG1	0	0	0	0
SYNDIG1L	0	0	0	0
SYNE1	39.12936	20.76774	96.44251	43.0551
SYNE2	220.623	575.9994	56.25813	485.5905
SYNGAP1	0	0	0	0.443867
SYNGR1	72.43094	47.64364	1876.611	65.69232
SYNGR2	4025.329	2622.844	277.2722	1844.267
SYNGR3	27.47381	3.664896	12.05531	3.550936
SYNGR4	0	3.05408	36.16594	3.994803
SYNJ1	27.47381	27.48672	164.756	47.93764
SYNJ2	154.0198	130.1038	60.27657	133.1601
SYNJ2BP	59.94285	94.06566	0	99.87008
SYNJ2BP-C	0	0	0	0
SYNM	14.15317	14.65958	16.07375	5.326404
SYNPO	120.7182	67.18975	36.16594	127.8337
SYNPO2	2.497619	1.832448	52.23969	3.107069
SYNPO2L	1.665079	0	20.09219	1.331601
SYNPR	0.83254	0	4.018438	0
SYNRG	132.3738	202.1801	281.2907	221.0458
SYP	16.65079	11.6055	72.33188	6.214138
SYPL1	166.5079	640.7459	128.59	300.9418
SYPL2	0	0	28.12907	0.443867
SYS1	283.896	199.126	622.8579	176.6591
SYS1-DBNC	0	0	0	0
SYT1	29.97142	0.610816	28.12907	1.775468
SYT10	0	0	0	0.443867
SYT11	28.30635	9.162239	88.40564	19.08628
SYT12	50.78491	110.5577	16.07375	216.6071
SYT13	388.796	268.1482	12.05531	133.604
SYT14	0	0	0	0
SYT14L	0	0	0	0
SYT15	0	1.221632	4.018438	6.214138
SYT16	0	0.610816	4.018438	3.994803
SYT17	43.29206	65.35731	4.018438	95.43141
SYT2	6.660317	4.275712	8.036876	10.20894
SYT3	0	0	20.09219	0
SYT4	0	0	16.07375	0
SYT5	11.65555	1.832448	16.07375	1.775468
SYT6	0.83254	1.221632	16.07375	2.663202
SYT7	5.827777	9.162239	52.23969	14.64761
SYT8	8145.567	1949.114	96.44251	1028.884

SYT9	3.330158	5.497344	24.11063	2.663202
SYTL1	1538.533	448.9497	48.22126	427.0001
SYTL2	231.446	273.6455	108.4978	306.2682
SYTL3	38.29682	106.8928	24.11063	88.32954
SYTL4	159.0151	80.62771	8.036876	152.6903
SYTL5	38.29682	30.5408	0	12.87214
SYVN1	641.0555	503.9232	208.9588	779.8744
SZT2	384.6333	347.5543	245.1247	491.3608
T	0	0	0	0.443867
TAAR1	0	0	0	0.443867
TAAR2	0	0	0	0
TAAR3	20.81349	2.443264	0	2.663202
TAAR5	0.83254	0	36.16594	0
TAAR6	0	0	8.036876	0
TAAR8	0	0	4.018438	0
TAAR9	0	0	4.018438	0
TAB1	180.6611	313.9594	60.27657	152.6903
TAB2	187.3214	121.5524	650.987	195.3015
TAB3	16.65079	32.98406	32.1475	74.12579
TAC1	0	0	8.036876	0.887734
TAC3	63.27301	0	0	0
TAC4	0	2.443264	0	5.770271
TACC1	251.427	211.9531	212.9772	376.3992
TACC2	362.9873	164.3095	610.8026	190.8628
TACC3	1107.278	766.574	36.16594	920.1363
TACO1	140.6992	211.9531	12.05531	131.8285
TACR1	0	1.832448	0	5.770271
TACR2	4.162698	8.551423	8.036876	6.658005
TACR3	0	0	8.036876	0
TACSTD2	3549.116	1985.152	76.35032	2783.934
TADA1	34.13412	43.36793	56.25813	37.7287
TADA2A	50.78491	57.4167	80.36876	51.48857
TADA2B	75.7611	111.1685	28.12907	155.3535
TADA3	712.6539	544.237	538.4707	399.0364
TAF1	87.41666	172.2501	160.7375	159.3483
TAF10	1162.225	570.5021	4637.278	507.7839
TAF11	108.2301	174.6934	261.1985	141.1497
TAF12	139.0341	155.7581	361.6594	116.2932
TAF13	14.15317	47.64364	104.4794	45.27444
TAF15	1446.121	1271.108	2061.459	887.2902
TAF1A	14.15317	34.81651	16.07375	21.74948
TAF1B	25.80873	48.25446	132.6085	36.3971
TAF1C	941.6023	533.8531	20.09219	542.8494
TAF1D	101.5698	161.2554	32.1475	108.7474
TAF1L	1.665079	0.610816	12.05531	3.994803
TAF2	81.58888	95.28729	36.16594	113.63
TAF3	16.65079	36.03814	56.25813	36.3971

TAF4	67.43571	75.74118	216.9957	120.288
TAF4B	19.14841	4.886528	12.05531	7.989606
TAF5	27.47381	18.93529	180.8297	17.31081
TAF5L	93.24443	152.704	52.23969	174.4397
TAF6	248.0968	958.3702	257.18	825.5927
TAF6L	354.6619	158.8121	188.8666	150.9148
TAF7	388.796	426.9604	76.35032	349.3233
TAF7L	1.665079	1.832448	12.05531	6.658005
TAF8	65.77063	59.85996	40.18438	90.54887
TAF9	134.8714	321.9	610.8026	214.8316
TAF9B	34.13412	56.80588	8.036876	23.52495
TAG	0	0	0	0
TAGAP	4.995237	3.05408	8.036876	6.658005
TAGLN	418.7674	318.8459	1117.126	438.9845
TAGLN2	7757.604	5739.227	1675.689	3792.844
TAGLN3	0	0.610816	0	1.775468
TAL1	0.83254	0.610816	12.05531	2.219335
TAL2	0	1.832448	4.018438	1.331601
TALDO1	3448.379	1688.906	3086.16	999.1447
TAMM41	40.79444	21.98937	76.35032	18.64241
TANC1	94.07697	142.3201	92.42408	189.9751
TANC2	36.63174	281.5862	208.9588	554.8338
TANK	142.3643	396.4196	124.5716	283.1872
TAOK1	129.8762	196.0719	506.3232	236.1373
TAOK2	501.1888	392.7547	466.1388	567.7059
TAOK3	133.2063	97.11974	285.3091	112.2984
TAP1	0	0	0	0
TAP2	14.98571	6.718975	0	3.994803
TAPBP	0	0.610816	0	0.887734
TAPBPL	266.4127	294.4133	52.23969	279.1924
TAPT1	39.12936	67.80057	104.4794	95.87528
TARBP1	273.9055	398.8628	8.036876	486.9221
TARBP2	626.9023	188.1313	357.641	231.2547
TARDBP	889.1523	623.0323	1752.039	639.6124
TARM1	0	0	0	0
TARP	0	0	0	0
TARS	480.3753	545.4586	590.7104	328.4616
TARS2	176.4984	266.3158	405.8622	194.4138
TARSL2	29.97142	17.71366	48.22126	20.86175
TAS1R1	15.81825	0.610816	8.036876	2.219335
TAS1R2	0	0	0	0
TAS1R3	4.995237	3.05408	0	5.770271
TAS2R1	0	0	0	0
TAS2R10	1.665079	0	0	2.219335
TAS2R13	0	0.610816	0	0
TAS2R14	4.162698	6.718975	0	7.101872
TAS2R16	0	0	0	0.443867

TAS2R19	0	1.832448	0	2.663202
TAS2R20	8.325396	9.773055	0	12.87214
TAS2R3	0	1.221632	0	0
TAS2R30	0	0	0	0
TAS2R31	0	1.221632	0	1.331601
TAS2R38	0	0	0	0
TAS2R39	0	0	0	0
TAS2R4	0	2.443264	0	0.887734
TAS2R40	0	0	0	0
TAS2R41	0	0	0	0.443867
TAS2R42	0	0	0	0
TAS2R43	0	0.610816	0	0.443867
TAS2R46	0	0	0	0
TAS2R5	3.330158	0	0	5.770271
TAS2R50	0	0	0	0
TAS2R60	0	1.221632	0	0
TAS2R7	0	0	0	0
TAS2R8	0	0	0	0
TAS2R9	2.497619	0	0	0
TASP1	58.27777	67.80057	64.29501	65.24845
TAT	4.995237	3.664896	8.036876	3.994803
TATDN1	88.2492	102.6171	108.4978	53.70791
TATDN2	325.523	139.266	233.0694	171.3327
TATDN3	48.2873	61.0816	24.11063	53.26404
TAX1BP1	397.9539	721.9845	787.6139	678.6727
TAX1BP3	6.660317	21.98937	12.05531	18.19855
TAZ	376.3079	678.0057	192.885	407.4699
TBC1D1	555.3039	523.4693	84.3872	494.024
TBC1D10A	318.0301	318.2351	614.821	201.9595
TBC1D10B	641.0555	403.1385	446.0466	461.1778
TBC1D10C	9.990475	2.443264	156.7191	2.219335
TBC1D12	24.14365	19.54611	28.12907	11.09668
TBC1D13	344.6714	167.9744	72.33188	175.7713
TBC1D14	12.48809	23.82182	36.16594	89.66114
TBC1D15	176.4984	139.8769	144.6638	129.1653
TBC1D16	244.7666	31.76243	28.12907	51.93244
TBC1D17	359.6571	293.8025	446.0466	232.5863
TBC1D19	11.65555	17.71366	192.885	31.51456
TBC1D2	111.5603	119.7199	28.12907	169.1133
TBC1D20	265.5801	189.3529	277.2722	213.0562
TBC1D21	0	0	8.036876	0
TBC1D22A	212.2976	315.181	168.7744	181.0977
TBC1D22B	59.94285	80.01689	56.25813	129.1653
TBC1D23	71.5984	76.96281	176.8113	83.89087
TBC1D24	69.93332	72.6871	16.07375	89.66114
TBC1D25	131.5413	64.74649	80.36876	59.47818
TBC1D26	0	0	0	0.887734

TBC1D28	0	0	0	0
TBC1D29	0	0	0	0.443867
TBC1D2B	119.0532	59.85996	116.5347	100.7578
TBC1D3	0	0	0	0
TBC1D30	116.5555	72.6871	16.07375	60.36591
TBC1D3B	0	0	0	0
TBC1D3C	0	0	0	0
TBC1D3F	0	0	0	0
TBC1D3G	0	0	0	0
TBC1D3H	0	0	0	0
TBC1D3P1	0	0.610816	32.1475	3.550936
TBC1D3P2	0	0	0	0
TBC1D3P5	0	0	0	0
TBC1D4	56.61269	83.07097	16.07375	50.60084
TBC1D5	49.95237	78.79526	24.11063	59.03431
TBC1D7	94.90951	140.4877	68.31345	103.8649
TBC1D8	140.6992	225.3911	40.18438	237.025
TBC1D8B	18.31587	84.2926	16.07375	38.61643
TBC1D9	59.94285	114.2226	20.09219	157.1289
TBC1D9B	533.6579	403.1385	321.475	501.5697
TBCA	335.5134	457.5011	72.33188	260.9938
TBCB	729.3047	696.3302	1297.955	311.1508
TBCC	143.1968	133.1579	301.3829	172.6643
TBCCD1	40.79444	41.53548	8.036876	37.7287
TBCD	874.1666	457.5011	120.5531	365.7464
TBCE	30.80396	197.2936	40.18438	117.6248
TBCEL	4.995237	14.04877	32.1475	35.95323
TBCK	10.82301	114.8334	12.05531	84.7786
TBK1	99.90475	62.30323	156.7191	73.23806
TBKBP1	11.65555	16.49203	216.9957	68.35552
TBL1X	57.44523	166.7528	196.9035	155.7973
TBL1XR1	329.6857	252.8778	357.641	258.3306
TBL1Y	0	0.610816	24.11063	2.663202
TBL2	291.3889	435.5118	32.1475	379.9502
TBL3	693.5055	484.3771	675.0976	292.9522
TBP	83.25396	44.58956	116.5347	57.70271
TBPL1	54.11507	40.31385	216.9957	44.83057
TBPL2	0	0	0	0
TBR1	0	1.221632	48.22126	0.443867
TBRG1	456.2317	361.603	1229.642	343.1092
TBRG4	1203.02	608.9835	249.1432	506.0084
TBX1	4.162698	4.886528	12.05531	4.882537
TBX10	1.665079	0	0	0.887734
TBX15	23.31111	31.76243	534.4523	30.62682
TBX18	1.665079	2.443264	36.16594	8.433473
TBX19	24.97619	36.64896	16.07375	60.80978
TBX2	49.95237	23.82182	100.461	55.03951

TBX20	0	0	0	0
TBX21	0	0	16.07375	0
TBX22	0	0	0	0
TBX3	0	0.610816	12.05531	1.775468
TBX4	0	0	4.018438	1.331601
TBX5	0	0	40.18438	0.443867
TBX6	43.29206	67.18975	44.20282	77.23286
TBXA2R	1.665079	4.886528	4.018438	2.219335
TBXAS1	366.3174	172.2501	216.9957	86.1102
TC2N	104.9	373.8194	0	403.4751
TCAM1P	2.497619	0.610816	4.018438	0
TCAP	7.492856	14.65958	1145.255	10.20894
TCEA1	39.9619	42.1463	4.018438	40.3919
TCEA2	35.7992	37.87059	60.27657	86.1102
TCEA3	663.534	81.23852	333.5304	145.5884
TCEAL1	9.157935	105.0603	16.07375	60.36591
TCEAL2	0	0	0	0
TCEAL3	45.78968	138.6552	12.05531	76.78899
TCEAL4	227.2833	522.8585	0	309.3753
TCEAL5	0	1.221632	12.05531	0
TCEAL6	0	0.610816	0	0.443867
TCEAL7	0	0	12.05531	0
TCEAL8	96.57459	145.3742	429.9729	118.9564
TCEANC	2.497619	5.497344	0	2.663202
TCEANC2	59.94285	32.37325	184.8482	36.3971
TCEB1	508.6817	341.4461	361.6594	246.3462
TCEB2	2908.061	1756.707	3005.792	1172.697
TCEB3	245.5992	157.5905	293.346	225.9283
TCEB3B	0	0	0	0.887734
TCEB3C	0	0	0	0
TCEB3CL	0	0	0	0
TCERG1	296.3841	200.3476	365.6779	318.2527
TCERG1L	0	0	4.018438	0.443867
TCF12	15.81825	87.34668	309.4197	157.1289
TCF15	0	2.443264	80.36876	1.775468
TCF19	0	7.329791	0	4.882537
TCF20	198.1444	290.1376	261.1985	239.6882
TCF21	0	0	16.07375	0.887734
TCF23	0	0	0	0
TCF24	1.665079	0	28.12907	0
TCF25	1147.24	753.7469	630.8948	745.6966
TCF3	631.065	629.1404	450.0651	545.9564
TCF4	83.25396	126.4389	2451.247	179.7661
TCF7	41.62698	42.75712	40.18438	34.17776
TCF7L1	21.64603	11.6055	293.346	20.41788
TCF7L2	183.9912	71.46547	329.5119	85.66633
TCFL5	25.80873	29.31917	0	40.83577



TCHH	0	0	8.036876	4.43867
TCHHL1	0	0	0	0
TCHP	61.60793	50.69772	24.11063	55.03951
TCIRG1	3395.929	2346.755	3668.834	3061.795
TCL1A	0	0	0	0
TCL1B	0	1.832448	0	0
TCL6	0	0.610816	0	0
TCN1	2776.519	1682.187	8.036876	2206.463
TCN2	54.11507	160.0338	116.5347	312.0385
TCOF1	661.869	338.392	12.05531	309.8192
TCP1	684.3475	560.729	1888.666	486.4783
TCP10	0	0	0	0
TCP10L	7.492856	1.221632	0	5.770271
TCP10L2	0	0.610816	0	0
TCP11	0	1.221632	4.018438	0.887734
TCP11L1	14.15317	38.48141	24.11063	18.19855
TCP11L2	7.492856	12.21632	204.9403	17.31081
TCTA	238.1063	279.1429	128.59	257.4429
TCTE1	0	0.610816	0	0.443867
TCTE3	4.162698	6.10816	4.018438	4.43867
TCTEX1D1	0	0	0	0
TCTEX1D2	45.78968	81.84934	124.5716	41.7235
TCTEX1D4	32.46904	9.162239	0	14.20374
TCTN1	86.58412	53.14099	40.18438	60.36591
TCTN2	99.07221	61.0816	16.07375	59.47818
TCTN3	140.6992	238.829	16.07375	202.4034
TDG	50.78491	27.48672	16.07375	50.15697
TDGF1	0	0	0	0.443867
TDGF1P3	0	0	0	0
TDH	0.83254	0	4.018438	0.443867
TDO2	0	0	52.23969	0.443867
TDP1	86.58412	65.96812	140.6453	92.76821
TDP2	84.0865	329.8406	60.27657	162.4553
TDRD1	3.330158	0	8.036876	0
TDRD10	0	0.610816	4.018438	0
TDRD12	4.162698	0.610816	0	0
TDRD3	96.57459	76.35199	128.59	56.81498
TDRD5	62.44047	3.664896	0	1.331601
TDRD6	2.497619	0	0	0.443867
TDRD7	216.4603	142.3201	337.5488	108.7474
TDRD9	0	0.610816	16.07375	0.887734
TDRG1	0	0	0	0
TDRKH	22.47857	80.01689	60.27657	67.02392
TEAD1	91.57935	100.1738	112.5163	185.0925
TEAD2	94.07697	51.91936	76.35032	100.3139
TEAD3	160.6801	175.915	76.35032	308.0437
TEAD4	140.6992	297.4674	16.07375	134.9356

TEC	61.60793	43.36793	241.1063	51.48857
TECPR1	81.58888	79.40607	216.9957	133.604
TECPR2	124.0484	97.73055	28.12907	128.2776
TECR	279.7333	199.7368	289.3275	221.4896
TECRL	0	0	4.018438	0
TECTA	2.497619	0.610816	4.018438	1.331601
TECTB	0	0	0	0
TEDDM1	3.330158	0.610816	4.018438	0.443867
TEF	214.7952	133.7687	204.9403	118.0686
TEFM	42.45952	58.63833	28.12907	43.94283
TEK	2.497619	6.718975	265.2169	21.74948
TEKT1	19.14841	0	0	0
TEKT2	92.41189	9.773055	4.018438	9.765074
TEKT3	2.497619	0	0	0.887734
TEKT4	0	0	0	0
TEKT4P2	0	5.497344	0	2.219335
TEKT5	4.995237	0.610816	0	5.326404
TELO2	1352.877	539.9613	96.44251	539.2984
TEN1	0	0	0	0
TEN1-CDK3	12.48809	4.886528	0	5.326404
TENC1	134.0389	76.35199	1635.504	138.0426
TEP1	236.4412	336.5596	831.8167	437.209
TEPP	0	0	0	0.443867
TERC	0.83254	23.21101	0	0.443867
TERF1	26.64127	58.63833	0	41.7235
TERF2	89.91427	101.3954	229.051	92.76821
TERF2IP	184.8238	223.5586	52.23969	249.8971
TERT	4.162698	0.610816	8.036876	1.331601
TES	217.2928	352.4408	120.5531	311.5946
TESC	1245.479	1015.176	40.18438	399.0364
TESK1	362.9873	252.267	586.692	311.1508
TESK2	39.9619	9.162239	48.22126	11.09668
TET1	0	2.443264	0	1.331601
TET2	44.1246	69.0222	20.09219	114.5177
TET3	81.58888	108.7252	518.3785	167.7817
TEX10	123.2159	98.95218	265.2169	61.25365
TEX101	0	0	0	0.443867
TEX11	4.162698	0	0	0
TEX12	0.83254	0	0	0
TEX13A	0	0	0	0
TEX13B	0	0.610816	0	0
TEX14	2.497619	5.497344	0	6.214138
TEX15	0	4.886528	0	10.65281
TEX19	0	0	0	0
TEX2	34.96666	183.2448	160.7375	172.2204
TEX21P	0	1.832448	0	0.887734
TEX22	9.990475	12.21632	0	15.09148

TEX26	0	0	0	0
TEX26-AS1	0	0	0	0
TEX261	303.8769	453.8363	124.5716	446.9741
TEX264	765.9364	546.0695	679.116	442.9793
TEX28	0	0	0	0
TEX29	0.83254	1.832448	0	0.887734
TEX30	54.94761	40.92467	72.33188	17.31081
TEX33	0	0	0	0
TEX34	0	3.664896	0	2.219335
TEX9	13.32063	5.497344	0	10.65281
TF	58.27777	18.93529	940.3145	60.80978
TFAM	49.11984	103.8387	28.12907	90.99274
TFAMP1	1.665079	0	8.036876	0.443867
TFAP2A	42.45952	247.9913	68.31345	245.0146
TFAP2B	0	0	40.18438	0.887734
TFAP2C	0	25.65427	0	58.14658
TFAP2D	0	0	12.05531	0
TFAP2E	25.80873	10.38387	20.09219	16.86695
TFAP4	159.0151	66.57894	100.461	54.15178
TFB1M	104.0674	62.91404	20.09219	27.07589
TFB2M	56.61269	127.6605	4.018438	75.90126
TFCP2	134.8714	129.493	28.12907	116.2932
TFCP2L1	118.2206	307.2404	8.036876	304.0489
TFDP1	204.8047	269.9807	132.6085	259.2183
TFDP2	352.9968	141.0985	96.44251	132.7162
TFDP3	0	0	0	0
TFE3	168.173	149.6499	249.1432	208.6175
TFEB	330.5182	80.62771	498.2863	138.9304
TFEC	2.497619	0	48.22126	2.663202
TFF1	27766.86	1009.068	92.42408	580.5781
TFF2	13066.71	833.153	48.22126	654.26
TFF3	34174.08	234.5533	68.31345	1250.817
TFG	1051.497	692.0545	498.2863	727.9419
TFIP11	218.9579	340.8353	225.0325	198.4086
TFPI	215.6278	593.7131	28.12907	541.0739
TFPI2	0.83254	28.70835	0	63.47298
TFPT	330.5182	427.5712	454.0835	244.5707
TFR2	51.61745	38.48141	68.31345	45.7183
TFRC	1037.344	353.0516	32.1475	227.7038
TG	0.83254	0	8.036876	6.658005
TGDS	69.10078	81.23852	88.40564	47.93764
TGFA	139.0341	346.3326	8.036876	282.7433
TGFB1	169.0055	307.2404	1703.818	280.524
TGFB111	87.41666	140.4877	405.8622	107.8597
TGFB2	2.497619	113.001	36.16594	184.2048
TGFB3	37.46428	69.63302	136.6269	235.2495
TGFBI	109.8952	320.6784	791.6323	550.839

TGFBR1	97.40713	58.02752	52.23969	60.36591
TGFBR2	145.6944	351.2192	791.6323	369.2974
TGFBR3	32.46904	15.2704	1169.365	35.06549
TGFBRAP1	9.990475	24.43264	56.25813	33.73389
TGIF1	246.4317	335.338	221.0141	285.4065
TGIF2	362.1547	143.5417	92.42408	148.6955
TGIF2-C20i	0	0	0	0
TGIF2LX	0	0	0	0
TGIF2LY	0	0	0	0
TGM1	38.29682	7.940607	68.31345	23.52495
TGM2	460.3944	949.208	289.3275	1667.608
TGM3	0	0	16.07375	0.887734
TGM4	0	0	0	3.107069
TGM5	0	0.610816	0	1.331601
TGM6	0	0	0	0
TGM7	0	0	8.036876	0
TGOLN2	938.2721	1147.112	72.33188	1191.783
TGS1	117.3881	92.23321	56.25813	73.23806
TH	0	2.443264	0	1.331601
TH1L	534.4904	619.9782	317.4566	463.841
THADA	319.6952	283.4186	20.09219	232.1425
THAP1	20.81349	36.03814	44.20282	23.52495
THAP10	1.665079	10.99469	0	15.53535
THAP11	189.819	299.2998	429.9729	198.8524
THAP2	11.65555	5.497344	8.036876	10.65281
THAP3	114.8905	90.40076	132.6085	84.7786
THAP4	586.9404	470.3283	245.1247	396.3732
THAP5	11.65555	18.32448	0	27.07589
THAP6	22.47857	34.81651	4.018438	31.07069
THAP7	538.6531	315.7918	570.6182	217.051
THAP7-AS1	19.98095	24.43264	0	15.09148
THAP8	10.82301	56.80588	0	21.30562
THAP9	19.98095	16.49203	0	19.53015
THBD	4.995237	47.64364	48.22126	49.71311
THBS1	73.26348	280.9753	104.4794	495.7995
THBS2	178.996	263.8725	1209.55	517.9928
THBS3	394.6238	505.7556	1117.126	588.1238
THBS4	23.31111	50.69772	924.2408	18.64241
THEG	0	0	0	0.443867
THEG5	0	0	0	0
THEGL	0	0.610816	0	0
THEM4	49.95237	77.57363	4.018438	55.48338
THEM5	2.497619	5.497344	0	9.765074
THEMIS	0	0	4.018438	0.443867
THG1L	89.08173	75.13036	44.20282	36.84096
THNSL1	12.48809	50.08691	32.1475	31.51456
THNSL2	2.497619	134.9903	88.40564	146.4761

THOC1	188.9865	304.1863	574.6366	268.0957
THOC2	199.8095	380.5383	429.9729	267.6518
THOC3	88.2492	44.58956	28.12907	35.95323
THOC5	195.6468	219.8937	618.8395	155.3535
THOC6	387.9634	313.3486	257.18	269.8711
THOC7	344.6714	275.478	602.7657	139.3742
THOP1	824.2142	267.5374	229.051	238.3566
THPO	0	0	16.07375	0
THRA	130.7087	79.40607	1864.555	154.0219
THRAP3	560.2991	593.1023	474.1757	612.9804
THRB	34.13412	40.92467	44.20282	61.69752
THRSP	0	1.221632	44.20282	1.331601
THSD1	2.497619	13.43795	28.12907	10.65281
THSD1P1	30.80396	7.940607	0	11.54054
THSD4	59.11031	307.8512	16.07375	369.2974
THSD7A	0	9.773055	64.29501	47.0499
THSD7B	0	0	20.09219	0.443867
THTPA	59.94285	150.8715	28.12907	104.7526
THUMPD1	60.77539	97.73055	36.16594	115.8493
THUMPD2	99.90475	63.52486	36.16594	45.7183
THUMPD3	142.3643	127.6605	132.6085	88.32954
THY1	34.13412	28.09753	152.7006	69.68712
THYN1	306.3746	174.0825	305.4013	116.737
TIA1	218.1254	315.7918	120.5531	418.1227
TIAF1	4.162698	17.10285	0	22.19335
TIAL1	611.9166	395.8087	976.4804	369.7412
TIAM1	9.990475	5.497344	76.35032	19.08628
TIAM2	3.330158	13.43795	28.12907	10.65281
TICAM1	408.7769	136.8228	8.036876	176.2152
TICAM2	0.83254	0	0	1.331601
TIE1	24.14365	53.7518	1024.702	100.7578
TIFA	24.97619	45.20038	32.1475	33.29003
TIFAB	11.65555	3.05408	80.36876	6.214138
TIGD1	64.10555	81.23852	0	73.23806
TIGD2	38.29682	91.01158	132.6085	61.25365
TIGD3	14.15317	10.38387	4.018438	12.42828
TIGD4	4.162698	2.443264	0	2.663202
TIGD5	91.57935	100.7846	8.036876	85.22247
TIGD6	28.30635	32.98406	0	32.84616
TIGD7	15.81825	43.36793	0	56.37111
TIGIT	0.83254	0	8.036876	0
TIMD4	0.83254	10.99469	0	7.989606
TIMELESS	256.4222	222.337	56.25813	245.0146
TIMM10	592.7682	481.323	196.9035	280.0801
TIMM13	2106.325	698.7735	3536.225	469.6113
TIMM17A	326.3555	427.5712	526.4154	293.3961
TIMM17B	565.2944	320.0676	309.4197	225.0406

TIMM21	50.78491	74.51955	36.16594	41.27963
TIMM22	85.75158	97.11974	176.8113	92.32434
TIMM23	446.2412	458.7228	602.7657	310.7069
TIMM44	568.6245	133.1579	389.7885	134.0478
TIMM50	438.7484	599.2105	799.6692	248.5655
TIMM8A	74.92856	125.2173	156.7191	39.50416
TIMM8B	504.519	415.3548	168.7744	237.9127
TIMM9	164.0103	226.0019	184.8482	104.7526
TIMMDC1	817.5539	532.6315	16.07375	328.4616
TIMP1	3880.467	1649.814	361.6594	1740.846
TIMP2	556.969	596.1564	8587.402	1097.239
TIMP3	248.0968	85.51423	984.5173	320.9159
TIMP4	4.995237	0	72.33188	0
TINAG	69.93332	112.3901	0	27.96362
TINAGL1	1653.424	1406.709	289.3275	927.2382
TINF2	233.9436	251.0454	68.31345	210.393
TIPARP	103.2349	54.36262	56.25813	64.80458
TIPARP-AS	10.82301	17.10285	56.25813	3.994803
TIPIN	9.157935	63.52486	144.6638	38.17256
TIPRL	133.2063	191.1854	297.3644	147.3639
TIRAP	27.47381	37.25977	12.05531	49.71311
TISP43	0	0	0	0
TJAP1	437.9158	172.8609	40.18438	204.1788
TJP1	67.43571	255.3211	249.1432	406.5822
TJP2	439.5809	526.5234	112.5163	403.4751
TJP3	1292.934	360.9922	32.1475	329.7932
TK1	1363.7	1056.101	40.18438	626.2964
TK2	258.9198	244.9372	64.29501	201.9595
TKT	3644.858	2325.376	1370.287	1436.354
TKTL1	0	0	0	0
TKTL2	0	0	12.05531	1.331601
TLCD1	183.9912	252.267	52.23969	121.6196
TLCD2	91.57935	51.30854	0	21.30562
TLE1	290.5563	441.0091	184.8482	328.9055
TLE2	67.43571	28.09753	92.42408	90.54887
TLE3	161.5127	221.7262	711.2635	332.0125
TLE4	100.7373	21.37856	265.2169	29.29522
TLE6	3.330158	5.497344	4.018438	0.887734
TLK1	59.94285	120.9416	357.641	150.4709
TLK2	49.11984	113.001	466.1388	98.09461
TLL1	4.995237	4.275712	44.20282	18.64241
TLL2	19.98095	51.30854	16.07375	11.98441
TLN1	627.7348	1016.398	3033.921	1131.417
TLN2	126.546	109.3361	277.2722	163.7869
TLR1	11.65555	14.65958	0	33.29003
TLR10	2.497619	0	0	1.775468
TLR2	57.44523	53.14099	160.7375	118.5125

TLR3	12.48809	36.64896	32.1475	59.47818
TLR4	4.162698	0	32.1475	3.550936
TLR5	11.65555	92.23321	8.036876	107.4158
TLR6	22.47857	30.5408	96.44251	50.60084
TLR7	3.330158	6.718975	128.59	11.98441
TLR8	0	1.832448	16.07375	5.326404
TLR8-AS1	0.83254	0	0	0
TLR9	10.82301	1.832448	16.07375	6.658005
TLX1	89.91427	0.610816	12.05531	0.443867
TLX1NB	2.497619	0	0	0
TLX2	3.330158	0.610816	16.07375	2.663202
TLX3	0	0	64.29501	0
TM2D1	34.96666	147.2066	233.0694	95.43141
TM2D2	361.3222	339.6137	112.5163	272.9782
TM2D3	164.0103	233.9425	361.6594	223.709
TM4SF1	3087.057	3388.196	417.9176	1553.535
TM4SF18	4.162698	6.10816	4.018438	14.64761
TM4SF19	0	0	0	0.443867
TM4SF19-1	0	0	0	0
TM4SF20	254.7571	0	4.018438	0.443867
TM4SF4	518.6722	20247.94	76.35032	8536.45
TM4SF5	165.6754	122.774	20.09219	27.51976
TM6SF1	22.47857	12.21632	305.4013	26.18815
TM6SF2	9.990475	0.610816	8.036876	0
TM7SF2	165.6754	546.6803	84.3872	284.9626
TM7SF3	219.7904	1419.536	56.25813	1062.618
TM7SF4	0.83254	0	12.05531	0.443867
TM9SF1	467.0547	645.0216	940.3145	639.1685
TM9SF2	329.6857	605.9294	667.0607	581.0219
TM9SF3	1049.832	1041.441	1563.172	677.3411
TM9SF4	393.7912	507.5881	245.1247	485.5905
TMBIM1	3625.71	4772.916	176.8113	2919.757
TMBIM4	215.6278	372.5977	64.29501	213.0562
TMBIM6	3799.711	3885.4	976.4804	2803.464
TMC1	0	0	4.018438	2.219335
TMC2	2.497619	1.221632	16.07375	1.331601
TMC3	2.497619	0.610816	12.05531	2.663202
TMC4	999.88	1058.544	60.27657	732.8244
TMC5	1726.687	757.4118	64.29501	1234.838
TMC6	1558.514	927.2186	104.4794	734.5999
TMC7	47.45476	38.48141	16.07375	30.18296
TMC8	69.93332	41.53548	76.35032	47.0499
TMCC1	176.4984	83.07097	273.2538	98.09461
TMCC2	3.330158	2.443264	80.36876	5.770271
TMCC3	29.97142	27.48672	44.20282	28.85136
TMCO1	395.4563	1194.145	297.3644	763.0074
TMCO2	0	0	16.07375	0

TMCO3	136.5365	359.1598	56.25813	292.0645
TMCO4	225.6182	277.9213	64.29501	224.5967
TMCO5A	0.83254	1.221632	0	4.43867
TMCO5B	0	0	0	0
TMCO6	130.7087	80.01689	184.8482	65.69232
TMCO7	25.80873	58.02752	24.11063	34.17776
TMED1	562.7968	359.7706	184.8482	281.8556
TMED10	288.0587	1444.58	727.3373	1197.553
TMED10P1	12.48809	9.162239	36.16594	6.214138
TMED11P	0	0	0	0.443867
TMED2	551.1412	832.5421	618.8395	877.5251
TMED3	1259.632	1380.444	542.4891	1072.827
TMED4	59.94285	241.2723	156.7191	281.4117
TMED5	74.09602	197.2936	12.05531	187.3119
TMED6	0	0.610816	0	3.550936
TMED7	30.80396	45.8112	28.12907	40.3919
TMED7-TIC	0	0	0	0
TMED8	0	1.832448	24.11063	6.214138
TMED9	1911.511	2702.861	1466.73	2093.721
TMEFF1	0	0.610816	0	0.887734
TMEFF2	0	5.497344	538.4707	24.85655
TMEM100	0	3.05408	160.7375	7.101872
TMEM101	148.192	357.3273	76.35032	211.2807
TMEM102	158.1825	145.985	8.036876	92.76821
TMEM104	152.3547	183.2448	20.09219	182.4293
TMEM105	9.157935	37.25977	0	33.29003
TMEM106	19.14841	36.03814	80.36876	28.85136
TMEM106i	19.14841	122.1632	68.31345	156.6851
TMEM106i	960.7507	431.2361	80.36876	262.3254
TMEM107	84.91904	82.46015	64.29501	48.3815
TMEM108	0	0	4.018438	0.443867
TMEM109	340.5087	805.0554	32.1475	476.2693
TMEM11	382.9682	153.9256	446.0466	149.5832
TMEM110	91.57935	61.0816	40.18438	74.12579
TMEM110	0	0	0	0
TMEM111	571.9547	439.7875	192.885	316.4772
TMEM114	0	0	0	0
TMEM115	490.3658	294.4133	225.0325	234.3618
TMEM116	5.827777	27.48672	0	13.31601
TMEM117	13.32063	5.497344	20.09219	3.550936
TMEM119	0.83254	0	4.018438	0.887734
TMEM120	596.9309	612.6484	566.5998	495.3556
TMEM120i	220.623	82.46015	32.1475	62.14138
TMEM121	0	1.832448	0	3.994803
TMEM123	179.8285	996.8516	8.036876	766.1145
TMEM125	505.3515	670.6759	0	552.6144
TMEM126	89.91427	169.196	12.05531	81.22766



TMEM126	86.58412	180.1907	0	109.6352
TMEM127	282.2309	378.7059	24.11063	406.5822
TMEM128	45.78968	102.6171	104.4794	90.54887
TMEM129	676.8547	585.7725	36.16594	624.9648
TMEM130	0.83254	1.221632	0	1.331601
TMEM131	150.6897	150.8715	289.3275	201.0718
TMEM132	83.25396	535.0748	249.1432	649.3774
TMEM132	0.83254	0.610816	4.018438	0.443867
TMEM132	4.162698	0	4.018438	0.443867
TMEM132	0	0	0	0
TMEM132	0	0	12.05531	0.443867
TMEM133	7.492856	61.69241	0	23.08108
TMEM134	833.3721	458.112	1836.426	380.394
TMEM135	33.30158	65.35731	32.1475	51.93244
TMEM136	4.995237	113.001	8.036876	71.01872
TMEM138	179.8285	222.9478	24.11063	173.1081
TMEM139	360.4896	149.0391	0	173.9959
TMEM140	20.81349	56.80588	36.16594	62.58525
TMEM141	1774.974	1095.193	180.8297	514.4419
TMEM143	79.09126	58.63833	76.35032	50.60084
TMEM144	33.30158	85.51423	4.018438	58.59045
TMEM145	2.497619	0	32.1475	0
TMEM147	854.1856	1453.131	1080.96	518.8805
TMEM14A	158.1825	291.3592	36.16594	157.5728
TMEM14B	106.5651	389.7006	0	280.0801
TMEM14C	252.2595	978.5272	200.9219	608.0978
TMEM14E	1.665079	0.610816	0	0
TMEM150	157.35	141.0985	289.3275	135.8233
TMEM150	149.8571	6.10816	0	2.219335
TMEM150	0	10.38387	8.036876	19.08628
TMEM151	4.162698	12.82714	16.07375	18.64241
TMEM151	0	1.221632	32.1475	3.107069
TMEM154	19.14841	39.70304	8.036876	47.0499
TMEM155	0	0	0	0.443867
TMEM156	0	31.76243	0	44.3867
TMEM158	3.330158	4.275712	349.6041	7.989606
TMEM159	140.6992	161.8662	48.22126	131.8285
TMEM160	740.1277	314.5702	1812.316	201.0718
TMEM161	387.9634	146.5958	84.3872	98.98235
TMEM161	44.1246	41.53548	40.18438	56.81498
TMEM163	255.5897	75.13036	4.018438	53.70791
TMEM164	456.2317	630.3621	188.8666	449.1934
TMEM165	456.2317	921.1105	204.9403	757.681
TMEM167	154.0198	234.5533	313.4382	249.8971
TMEM167	165.6754	189.9638	20.09219	152.2464
TMEM168	0.83254	84.2926	72.33188	66.58005
TMEM169	1.665079	15.88121	0	14.20374

TMEM17	14.98571	29.31917	4.018438	25.30042
TMEM170	3.330158	22.60019	28.12907	15.97921
TMEM170	7.492856	1.832448	128.59	11.98441
TMEM171	28.30635	32.37325	4.018438	40.3919
TMEM173	789.2475	87.9575	112.5163	201.0718
TMEM174	0	0	0	0.443867
TMEM175	363.8198	306.6296	48.22126	474.9377
TMEM176	144.0293	101.3954	124.5716	210.393
TMEM176	24.14365	96.50892	16.07375	214.3878
TMEM177	146.527	121.5524	48.22126	83.89087
TMEM178	29.13889	19.54611	64.29501	26.63202
TMEM179	0	0	8.036876	0
TMEM179	469.5523	802.6122	297.3644	633.3982
TMEM18	238.1063	215.0072	4.018438	111.4106
TMEM180	111.5603	49.47609	40.18438	34.17776
TMEM181	329.6857	118.4983	144.6638	166.894
TMEM182	9.157935	26.26509	0	20.86175
TMEM183	4.162698	4.275712	0	3.107069
TMEM183	0	0	0	0
TMEM184	423.7626	367.7112	32.1475	325.3545
TMEM184	792.5777	636.4702	297.3644	511.7787
TMEM184	25.80873	110.5577	4.018438	100.7578
TMEM185	15.81825	55.58425	40.18438	31.51456
TMEM185	203.9722	320.6784	68.31345	272.0905
TMEM186	181.4936	127.0497	8.036876	94.54367
TMEM187	89.08173	443.4524	0	123.8389
TMEM189	418.7674	309.6837	84.3872	295.6154
TMEM189-	0	0	0	0
TMEM19	96.57459	83.68179	80.36876	59.47818
TMEM190	24.14365	3.05408	0	2.219335
TMEM191	32.46904	20.15693	0	9.765074
TMEM191	5.827777	0.610816	0	0.443867
TMEM191	2.497619	1.221632	0	0.443867
TMEM192	35.7992	108.7252	249.1432	105.1965
TMEM194	79.09126	47.64364	16.07375	89.21727
TMEM194	29.13889	100.7846	0	55.03951
TMEM196	0	0	0	0
TMEM198	79.9238	20.15693	16.07375	53.26404
TMEM198	99.90475	29.92998	16.07375	70.13099
TMEM199	126.546	197.9044	36.16594	118.0686
TMEM2	404.6142	338.392	60.27657	444.7548
TMEM200	0	0	0	0.443867
TMEM200	0	32.98406	8.036876	43.0551
TMEM200	0	0	8.036876	0
TMEM201	140.6992	48.25446	12.05531	51.48857
TMEM202	0	0	0	0
TMEM203	462.892	227.8344	277.2722	165.1185

TMEM204	4.995237	15.88121	96.44251	35.50936
TMEM205	940.7697	756.1902	494.2679	569.0375
TMEM206	32.46904	31.76243	28.12907	45.27444
TMEM207	0	0	0	0
TMEM208	1044.837	630.9729	1289.919	561.4918
TMEM209	17.48333	43.36793	32.1475	47.0499
TMEM211	0	0	0	0
TMEM212	0	0	0	0.443867
TMEM213	0.83254	86.12505	0	112.7422
TMEM214	665.1991	662.1245	148.6822	674.234
TMEM215	0	0	16.07375	0
TMEM216	111.5603	155.1473	40.18438	86.55407
TMEM217	0	0	4.018438	4.882537
TMEM218	54.94761	167.9744	16.07375	69.24325
TMEM219	1859.061	966.9217	333.5304	758.1249
TMEM22	50.78491	21.37856	0	27.51976
TMEM220	11.65555	108.7252	8.036876	55.92724
TMEM221	4.995237	1.221632	4.018438	2.219335
TMEM222	676.8547	465.4418	160.7375	379.9502
TMEM223	179.8285	266.9266	249.1432	150.0271
TMEM225	0	0	0	0.443867
TMEM229,	0	5.497344	28.12907	0.443867
TMEM229I	156.5174	26.26509	184.8482	75.45739
TMEM231	136.5365	2.443264	12.05531	10.20894
TMEM232	0	2.443264	0	2.663202
TMEM233	2.497619	0	4.018438	0
TMEM234	99.07221	144.7634	180.8297	118.5125
TMEM235	0	1.221632	0	0.443867
TMEM236	0	0	0	0
TMEM237	61.60793	94.67647	68.31345	68.35552
TMEM238	870.0039	1055.49	305.4013	427.0001
TMEM239	0	0	0	0
TMEM240	9.157935	3.05408	80.36876	9.321207
TMEM241	23.31111	34.81651	4.018438	38.17256
TMEM242	154.0198	102.0063	116.5347	78.1206
TMEM244	0	0	0	0
TMEM25	10.82301	50.69772	12.05531	86.1102
TMEM26	0	1.221632	8.036876	1.775468
TMEM27	1.665079	15.88121	12.05531	18.64241
TMEM30A	335.5134	288.9159	337.5488	243.683
TMEM30B	83.25396	136.8228	16.07375	145.1445
TMEM30C	0	0	0	0
TMEM31	0	0	0	0
TMEM33	225.6182	277.3104	172.7928	339.1144
TMEM35	0.83254	0.610816	4.018438	2.663202
TMEM37	224.7857	616.9241	52.23969	604.103
TMEM38A	30.80396	10.38387	28.12907	33.29003

TMEM38B	15.81825	18.32448	96.44251	8.433473
TMEM39A	171.5032	157.5905	369.6963	175.3275
TMEM39B	159.0151	81.23852	76.35032	67.02392
TMEM40	4.162698	4.886528	4.018438	11.09668
TMEM41A	286.3936	185.0772	44.20282	170.0011
TMEM41B	301.3793	108.7252	20.09219	111.4106
TMEM42	164.0103	131.3254	56.25813	119.4002
TMEM43	278.0682	138.0444	112.5163	183.3171
TMEM44	673.5245	298.0782	40.18438	185.9803
TMEM45A	149.0246	80.62771	4.018438	490.0292
TMEM45B	708.4912	415.9657	48.22126	322.6913
TMEM47	83.25396	11.6055	84.3872	21.74948
TMEM48	228.1158	238.2182	108.4978	163.7869
TMEM5	99.07221	110.5577	152.7006	60.36591
TMEM50A	522.0023	900.3427	257.18	644.4949
TMEM50B	225.6182	189.9638	20.09219	140.262
TMEM51	502.0214	398.8628	116.5347	456.2953
TMEM52	42.45952	0	0	2.663202
TMEM53	156.5174	113.6118	44.20282	87.88567
TMEM54	2235.369	2170.84	36.16594	1211.757
TMEM55A	59.94285	47.03283	108.4978	39.50416
TMEM55B	263.0825	271.2023	663.0423	245.4585
TMEM56	29.97142	5.497344	0	16.42308
TMEM56-F	0	0.610816	0	0.887734
TMEM57	222.2881	175.915	180.8297	246.7901
TMEM59	824.2142	1873.983	1350.195	1506.929
TMEM59L	0.83254	1.832448	0	1.775468
TMEM60	46.62222	115.4442	297.3644	82.55927
TMEM61	0.83254	12.21632	0	9.321207
TMEM62	233.1111	517.9719	28.12907	539.2984
TMEM63A	1345.384	1312.643	120.5531	1125.647
TMEM63B	811.7261	320.6784	433.9913	334.6757
TMEM63C	0	0	8.036876	0.443867
TMEM64	80.75634	23.21101	88.40564	30.62682
TMEM65	37.46428	92.23321	261.1985	58.14658
TMEM66	247.2643	1213.691	365.6779	1237.501
TMEM67	63.27301	52.53017	16.07375	41.27963
TMEM68	87.41666	60.47078	16.07375	39.0603
TMEM69	106.5651	132.5471	0	99.87008
TMEM70	65.77063	129.493	36.16594	115.8493
TMEM71	2.497619	0	4.018438	0
TMEM72	0	0.610816	0	0
TMEM72-F	0	1.221632	0	14.64761
TMEM74	1.665079	0	0	1.331601
TMEM74B	680.1848	9.773055	8.036876	15.97921
TMEM79	158.1825	91.01158	32.1475	114.9616
TMEM80	157.35	82.46015	4.018438	78.1206

TMEM81	17.48333	19.54611	20.09219	21.74948
TMEM82	4.162698	5.497344	28.12907	7.989606
TMEM85	140.6992	565.0048	478.1941	504.2329
TMEM86A	40.79444	38.48141	249.1432	83.89087
TMEM86B	422.0976	102.0063	0	67.02392
TMEM87A	253.9246	342.6678	176.8113	464.7288
TMEM87B	95.74205	285.8619	36.16594	261.4377
TMEM88	32.46904	6.10816	84.3872	11.09668
TMEM88B	0	0	0	0
TMEM89	0.83254	1.832448	12.05531	0.887734
TMEM8A	1751.663	849.0342	92.42408	877.969
TMEM8B	169.8381	109.9469	16.07375	124.7266
TMEM8C	0	0	0	0
TMEM9	1057.325	835.5962	180.8297	910.3713
TMEM91	45.78968	20.76774	16.07375	19.53015
TMEM92	153.1873	105.0603	12.05531	155.7973
TMEM93	14.15317	16.49203	0	15.09148
TMEM95	0	0.610816	4.018438	0.443867
TMEM97	306.3746	1031.057	0	614.7558
TMEM98	123.2159	484.3771	64.29501	243.683
TMEM99	85.75158	346.3326	0	192.1944
TMEM9B	240.6039	205.2342	530.4338	148.2516
TMF1	79.09126	88.56831	124.5716	114.5177
TMIE	0.83254	2.443264	4.018438	4.43867
TMIGD1	0	0	0	0
TMIGD2	0	0	0	0
TMLHE	16.65079	82.46015	40.18438	35.50936
TMOD1	1.665079	0	40.18438	2.219335
TMOD2	3.330158	1.221632	12.05531	4.882537
TMOD3	51.61745	203.4017	124.5716	262.7693
TMOD4	10.82301	3.664896	381.7516	6.214138
TMPO	312.2023	143.5417	438.0097	85.22247
TMPPE	10.82301	2.443264	12.05531	4.43867
TMPRSS11	0	0.610816	4.018438	0.443867
TMPRSS11	0	0	4.018438	0.443867
TMPRSS11	0	0	0	0
TMPRSS11	0	0	0	1.775468
TMPRSS11	0	0	0	0
TMPRSS11	0	0	0	0
TMPRSS11	0	0	0	0
TMPRSS12	3.330158	0	0	0.887734
TMPRSS13	61.60793	169.8068	8.036876	229.0354
TMPRSS15	0	1.221632	4.018438	0
TMPRSS2	1796.62	238.2182	12.05531	326.2423
TMPRSS3	472.0499	317.0135	20.09219	336.4512
TMPRSS4	2607.514	2537.94	32.1475	1699.567
TMPRSS5	14.98571	14.65958	0	7.101872

TMPRSS6	1.665079	1.832448	8.036876	3.550936
TMPRSS7	2.497619	2.443264	12.05531	1.331601
TMPRSS9	5.827777	5.497344	24.11063	7.989606
TMSB10	33028.51	20993.74	24512.47	14239.7
TMSB15A	2.497619	0	8.036876	1.775468
TMSB15B	9.990475	25.04345	4.018438	11.09668
TMSB4X	3093.717	6054.408	663.0423	3423.546
TMSB4Y	390.4611	244.9372	6204.468	246.7901
TMTC1	32.46904	1.221632	24.11063	1.331601
TMTC2	49.95237	59.85996	32.1475	90.105
TMTC3	21.64603	32.37325	12.05531	25.74429
TMTC4	81.58888	52.53017	16.07375	41.27963
TMUB1	1275.451	959.5919	144.6638	676.4533
TMUB2	261.4174	575.9994	148.6822	487.8099
TMX1	65.77063	153.3148	36.16594	99.42621
TMX2	716.8166	732.9791	64.29501	548.6196
TMX2-CTN	0	0	0	0
TMX3	36.63174	64.74649	28.12907	55.92724
TMX4	160.6801	111.1685	12.05531	120.7318
TNC	333.8484	2291.781	84.3872	2160.745
TNF	0	0	0	0
TNFAIP1	303.8769	312.7378	120.5531	392.3784
TNFAIP2	2465.15	3262.368	277.2722	4922.041
TNFAIP3	67.43571	44.58956	48.22126	64.36072
TNFAIP6	0	6.718975	52.23969	5.326404
TNFAIP8	49.95237	44.58956	144.6638	31.51456
TNFAIP8L1	626.0698	140.4877	28.12907	125.6144
TNFAIP8L2	30.80396	18.93529	425.9544	25.74429
TNFAIP8L2	0	0	0	0
TNFAIP8L3	10.82301	6.10816	0	7.989606
TNFRSF10A	10.82301	94.06566	0	93.65594
TNFRSF10E	522.8349	575.3886	4.018438	723.5032
TNFRSF10C	2.497619	3.05408	0	9.765074
TNFRSF10I	216.4603	224.1695	4.018438	351.5427
TNFRSF11A	26.64127	116.055	4.018438	118.5125
TNFRSF11E	13.32063	40.31385	0	24.41269
TNFRSF12A	1261.297	1478.785	48.22126	1459.879
TNFRSF13E	0	0	12.05531	0
TNFRSF13C	12.48809	0.610816	0	1.775468
TNFRSF14	3991.195	1840.999	52.23969	1220.634
TNFRSF17	0.83254	0	4.018438	0
TNFRSF18	1.665079	2.443264	4.018438	10.65281
TNFRSF19	43.29206	4.886528	0	23.96882
TNFRSF1A	622.7396	847.8125	180.8297	677.7849
TNFRSF1B	223.9531	9.773055	8.036876	34.17776
TNFRSF21	561.9642	1268.054	128.59	1335.596
TNFRSF25	342.1738	31.76243	168.7744	78.56446

TNFRSF4	0.83254	1.221632	0	2.663202
TNFRSF6B	19.98095	10.99469	0	11.98441
TNFRSF8	6.660317	0	0	0
TNFRSF9	1.665079	0	0	0.443867
TNFSF10	626.9023	360.9922	12.05531	174.4397
TNFSF11	14.15317	24.43264	12.05531	24.85655
TNFSF12	60.77539	50.08691	699.2082	67.02392
TNFSF12-T	0	0	0	0
TNFSF13	47.45476	58.02752	48.22126	96.76301
TNFSF13B	15.81825	10.99469	16.07375	10.65281
TNFSF14	0.83254	2.443264	4.018438	7.101872
TNFSF15	47.45476	43.36793	0	47.93764
TNFSF18	0	0	0	0
TNFSF4	0	1.221632	0	0.443867
TNFSF8	0	0	4.018438	0.443867
TNFSF9	63.27301	1.221632	0	4.882537
TNIK	127.3786	21.37856	48.22126	47.93764
TNIP1	2404.374	1497.721	385.7701	1041.312
TNIP2	637.7253	473.3824	36.16594	457.183
TNIP3	0.83254	0.610816	0	5.770271
TNK1	209.8	123.9956	12.05531	108.7474
TNK2	4111.08	202.1801	297.3644	237.4689
TNKS	64.93809	122.1632	100.461	162.0115
TNKS1BP1	1155.565	957.7594	610.8026	924.1311
TNKS2	69.10078	73.90873	152.7006	137.1549
TNMD	0	1.221632	36.16594	0.887734
TNN	0	6.10816	4.018438	2.219335
TNNC1	88.2492	6.718975	16.07375	7.545739
TNNC2	72.43094	6.10816	8579.365	7.989606
TNNI1	46.62222	127.0497	12.05531	62.14138
TNNI2	3357.632	332.2839	8378.443	179.7661
TNNI3	86.58412	9.773055	225.0325	12.42828
TNNI3K	0	0	0	0
TNNT1	69.93332	76.35199	12.05531	28.85136
TNNT2	70.76586	23.21101	12.05531	67.46779
TNNT3	55.78015	4.275712	11119.02	3.550936
TNP1	0	0	0	0
TNP2	0	0	0	0
TNPO1	123.2159	211.3423	474.1757	221.0458
TNPO2	737.6301	233.9425	566.5998	356.8691
TNPO3	228.9484	414.744	329.5119	354.6497
TNR	0	0.610816	44.20282	0
TNRC18	718.4817	688.3896	257.18	871.7548
TNRC6A	255.5897	223.5586	1105.07	446.5302
TNRC6B	94.07697	170.4177	385.7701	167.7817
TNRC6C	115.723	40.92467	317.4566	54.15178
TNS1	157.35	495.3717	341.5672	667.1321

TNS3	164.0103	530.7991	72.33188	722.6155
TNS4	840.0324	1.832448	48.22126	16.42308
TNXA	0	0	0	0
TNXB	0	0	8.036876	2.219335
TOB1	152.3547	348.7759	164.756	325.3545
TOB2	243.1016	252.8778	120.5531	252.5603
TOB2P1	2.497619	3.664896	0	12.42828
TOE1	241.4365	76.96281	88.40564	59.47818
TOLLIP	472.0499	326.7865	12.05531	312.4824
TOM1	561.1317	781.8444	486.231	548.6196
TOM1L1	120.7182	185.0772	8.036876	121.6196
TOM1L2	179.8285	114.2226	72.33188	127.3898
TOMM20	663.534	666.4002	815.7429	476.2693
TOMM20L	0	0.610816	0	0
TOMM22	524.4999	538.7397	385.7701	250.7849
TOMM34	901.6404	325.5649	96.44251	332.4564
TOMM40	690.1753	497.815	321.475	353.3181
TOMM40L	249.7619	144.1526	703.2267	131.8285
TOMM5	539.4856	669.4543	168.7744	303.1612
TOMM6	1941.482	1249.729	2824.962	917.917
TOMM7	1317.078	1197.199	1032.739	668.9076
TOMM70A	367.15	298.689	984.5173	252.1165
TONSL	583.6102	306.6296	24.11063	278.7485
TOP1	149.8571	276.6996	265.2169	371.9606
TOP1MT	469.5523	263.2617	80.36876	137.5988
TOP1P1	4.995237	3.664896	96.44251	20.86175
TOP1P2	4.162698	0.610816	4.018438	0.443867
TOP2A	378.8055	381.76	52.23969	254.3358
TOP2B	332.1833	329.8406	1221.605	275.6414
TOP3A	46.62222	73.90873	92.42408	78.1206
TOP3B	84.0865	108.1144	229.051	127.8337
TOPBP1	238.1063	114.2226	112.5163	143.8129
TOPORS	22.47857	108.1144	112.5163	97.20688
TOR1A	205.6373	179.5799	136.6269	160.236
TOR1AIP1	68.26825	155.1473	132.6085	142.9252
TOR1AIP2	277.2357	225.3911	108.4978	311.5946
TOR1B	144.8619	116.6658	20.09219	159.7921
TOR2A	215.6278	55.58425	168.7744	90.54887
TOR3A	532.8253	343.8894	36.16594	238.8005
TOX	7.492856	1.221632	68.31345	4.43867
TOX2	0	2.443264	36.16594	7.101872
TOX3	41.62698	99.563	24.11063	89.21727
TOX4	357.992	298.0782	172.7928	273.866
TP53	186.4889	32.37325	208.9588	43.0551
TP53AIP1	3.330158	1.221632	0	9.765074
TP53BP1	174.0008	339.0029	550.526	505.5645
TP53BP2	146.527	208.8991	120.5531	221.9335



TP53I11	566.1269	401.9169	84.3872	416.7911
TP53I13	877.4967	739.6981	92.42408	387.052
TP53I3	958.2531	790.3958	4.018438	455.8514
TP53INP1	50.78491	28.09753	56.25813	57.70271
TP53INP2	180.6611	201.5693	1052.831	406.5822
TP53RK	183.1587	142.9309	124.5716	118.5125
TP53TG1	254.7571	393.3655	8.036876	212.6123
TP53TG3	0	0	0	0
TP53TG3B	0	0	0	0
TP53TG3C	0	0	0	0
TP53TG5	0.83254	0.610816	0	0.443867
TP63	2.497619	1.221632	16.07375	8.433473
TP73	94.90951	10.99469	8.036876	15.97921
TP73-AS1	24.97619	84.90342	8.036876	127.3898
TPBG	291.3889	221.1154	88.40564	343.9969
TPCN1	1095.622	263.8725	88.40564	345.7724
TPCN2	124.8809	155.1473	20.09219	130.053
TPD52	587.7729	317.0135	723.3188	294.2838
TPD52L1	104.9	181.4123	24.11063	145.5884
TPD52L2	1387.011	1099.469	884.0564	970.2933
TPD52L3	0	0.610816	0	0
TPGS1	272.2404	186.2989	663.0423	128.7214
TPGS2	209.8	226.6127	64.29501	175.3275
TPH1	0	0	0	0.443867
TPH2	0	0	24.11063	0
TPI1	8317.07	5045.34	936.2961	3355.191
TPI1P2	21.64603	20.76774	152.7006	19.97402
TPI1P3	0	3.05408	24.11063	1.775468
TPK1	66.60317	54.97344	8.036876	31.51456
TPM1	2586.7	7460.506	13831.46	5531.027
TPM2	4051.97	2164.732	9845.173	1943.25
TPM3	1701.711	1712.117	1165.347	1338.703
TPM4	1224.666	753.1361	550.526	540.1862
TPMT	82.42142	110.5577	20.09219	84.7786
TPO	0	0	0	0
TPP1	338.0111	193.0178	474.1757	351.0988
TPP2	130.7087	138.6552	221.0141	172.2204
TPPP	165.6754	15.88121	0	28.85136
TPPP2	1.665079	2.443264	48.22126	2.219335
TPPP3	982.3967	235.775	1201.513	156.2412
TPR	488.7007	878.9642	1314.029	833.1384
TPRA1	752.6158	241.8831	458.1019	216.6071
TPRG1	52.44999	4.275712	8.036876	8.433473
TPRG1L	894.1475	437.3442	502.3048	309.3753
TPRKB	60.77539	78.18444	28.12907	44.3867
TPRN	647.7158	177.7474	56.25813	185.0925
TPRX1	0	0	0	0

TPRXL	10.82301	0.610816	0	1.331601
TPSAB1	0	0	0	0
TPSB2	0	0	0	0.887734
TPSD1	0	0	4.018438	1.331601
TPSG1	24.14365	1.221632	0	0.443867
TPST1	84.0865	13.43795	361.6594	37.28483
TPST2	115.723	83.68179	333.5304	83.89087
TPT1	12067.66	15454.87	36153.89	8375.327
TPT1-AS1	86.58412	38.48141	32.1475	21.74948
TPTE	0	0.610816	0	0
TPTE2	0	0.610816	0	1.775468
TPTE2P1	0	0.610816	0	0
TPTE2P3	0	0	0	0
TPTE2P6	0	0	0	0
TPTEP1	0	0	0	0
TPX2	485.3706	539.9613	28.12907	418.5666
TRA2A	255.5897	277.9213	329.5119	280.524
TRA2B	553.6388	360.3814	1466.73	395.4855
TRABD	1947.31	1152.61	265.2169	647.1581
TRADD	586.9404	444.0632	233.0694	348.4356
TRAF1	46.62222	39.70304	104.4794	67.91165
TRAF2	456.2317	475.2148	132.6085	328.4616
TRAF3	158.1825	265.0941	168.7744	272.9782
TRAF3IP1	40.79444	84.2926	16.07375	94.09981
TRAF3IP2	310.5373	97.73055	221.0141	102.5333
TRAF3IP2-)	27.47381	10.38387	0	7.545739
TRAF3IP3	19.98095	4.886528	124.5716	10.20894
TRAF4	3450.044	1313.865	245.1247	1069.72
TRAF5	124.0484	155.7581	208.9588	245.4585
TRAF6	51.61745	25.04345	4.018438	31.95843
TRAF7	631.8975	502.0907	486.231	476.2693
TRAFD1	278.9008	103.8387	253.1616	139.8181
TRAIP	183.9912	63.52486	8.036876	63.02912
TRAK1	1803.281	851.4774	112.5163	660.0303
TRAK2	139.0341	176.5258	80.36876	193.0822
TRAM1	235.6087	888.1264	249.1432	767.8899
TRAM1L1	1.665079	19.54611	0	14.64761
TRAM2	44.1246	40.92467	32.1475	47.93764
TRANK1	82.42142	30.5408	0	80.7838
TRAP1	1226.331	693.2761	763.5032	524.6508
TRAPPC1	576.9499	460.5552	1494.859	409.6893
TRAPPC10	213.1301	113.6118	84.3872	154.0219
TRAPPC11	52.44999	169.196	84.3872	149.5832
TRAPPC12	430.423	251.0454	249.1432	193.526
TRAPPC2	69.10078	30.5408	60.27657	28.40749
TRAPPC2L	741.7928	581.4968	1310.011	350.6549
TRAPPC2P:	50.78491	32.98406	52.23969	24.85655

TRAPPC3	414.6047	554.6209	976.4804	368.4096
TRAPPC4	452.9015	550.956	1695.781	309.3753
TRAPPC5	735.1324	439.1767	478.1941	274.3098
TRAPPC6A	214.7952	503.3123	566.5998	260.1061
TRAPPC6B	73.26348	126.4389	683.1345	110.9668
TRAPPC8	112.3928	104.4495	216.9957	111.8545
TRAPPC9	289.7238	199.7368	152.7006	126.946
TRAT1	0	0.610816	0	0
TRDMT1	4.995237	4.886528	16.07375	9.321207
TRDN	1.665079	0	317.4566	0.887734
TREH	20.81349	10.99469	12.05531	6.214138
TREM1	0	0	4.018438	0.887734
TREM2	58.27777	24.43264	1366.269	48.3815
TREML1	4.162698	0	4.018438	0
TREML2	49.95237	0	12.05531	0.443867
TREML2P1	0	0	0	0
TREML3	0	0	0	0.443867
TREML4	0	0	0	0
TRERF1	115.723	118.4983	216.9957	104.7526
TREX1	594.4333	116.6658	192.885	108.3036
TREX2	14.15317	5.497344	0	9.765074
TRH	1.665079	1.221632	0	0
TRHDE	2.497619	17.71366	8.036876	11.09668
TRHR	0	0	0	0
TRIAP1	205.6373	162.477	253.1616	81.67153
TRIB1	451.2365	495.3717	64.29501	472.7184
TRIB2	506.1841	334.1163	204.9403	552.6144
TRIB3	836.7023	606.5402	28.12907	345.7724
TRIL	3.330158	3.05408	84.3872	6.214138
TRIM10	0	0	0	0.443867
TRIM11	880.8269	382.3708	116.5347	368.4096
TRIM13	94.07697	104.4495	32.1475	59.92205
TRIM14	434.5857	357.3273	48.22126	340.446
TRIM15	0	6.718975	0	0.887734
TRIM16	151.5222	118.4983	28.12907	114.0738
TRIM16L	59.11031	65.35731	8.036876	29.73909
TRIM17	8.325396	10.38387	4.018438	15.09148
TRIM2	64.93809	130.1038	237.0878	126.5021
TRIM21	319.6952	151.4824	8.036876	93.65594
TRIM22	72.43094	7.329791	4.018438	26.63202
TRIM23	3.330158	10.38387	72.33188	24.41269
TRIM24	68.26825	189.9638	245.1247	205.0666
TRIM25	531.1603	591.2698	12.05531	577.9149
TRIM26	0	0	0	0
TRIM27	2.497619	0.610816	4.018438	0.443867
TRIM28	3166.981	2757.834	1169.365	1483.404
TRIM29	1425.308	542.4046	76.35032	518.8805

TRIM3	189.819	61.69241	755.4664	110.5229
TRIM31	0.83254	5.497344	0	3.994803
TRIM32	80.75634	41.53548	56.25813	42.61123
TRIM33	119.0532	112.3901	253.1616	130.053
TRIM34	0	0	0	0
TRIM35	62.44047	65.96812	84.3872	86.55407
TRIM36	24.97619	3.664896	24.11063	5.326404
TRIM37	22.47857	160.0338	148.6822	102.0894
TRIM38	169.0055	174.0825	4.018438	247.2339
TRIM39	0	0	0	0
TRIM39-RF	0	0	0	0
TRIM4	81.58888	457.5011	4.018438	409.2454
TRIM40	0	0	0	0
TRIM41	387.9634	150.2607	233.0694	298.2786
TRIM42	0	0	4.018438	0
TRIM43	0	0	0	0
TRIM43B	0	0	0	0
TRIM44	35.7992	103.2279	88.40564	138.0426
TRIM45	41.62698	36.64896	28.12907	62.14138
TRIM46	34.13412	57.4167	132.6085	76.78899
TRIM47	452.9015	798.3365	562.5813	604.9907
TRIM48	0	0	0	0
TRIM49	0	0	0	0.443867
TRIM49L1	0	0	0	0
TRIM49L2	0	0	0	0
TRIM5	48.2873	56.80588	0	50.60084
TRIM50	3.330158	4.275712	28.12907	1.331601
TRIM52	44.1246	27.48672	4.018438	51.48857
TRIM53P	0	0	0	0
TRIM54	1385.346	433.0685	116.5347	238.8005
TRIM55	0	0.610816	0	0.443867
TRIM56	44.1246	160.0338	20.09219	138.9304
TRIM58	0	0	4.018438	0
TRIM59	55.78015	15.2704	4.018438	13.31601
TRIM6	3.330158	14.65958	0	15.53535
TRIM6-TRII	0	0	0	0
TRIM60	0	0	0	0.443867
TRIM61	0	0.610816	0	0
TRIM62	74.09602	34.20569	24.11063	58.59045
TRIM63	0	0	52.23969	0
TRIM64	0	0	0	0
TRIM64B	0	0	0	0
TRIM64C	0	0	0	0
TRIM65	193.1492	229.056	12.05531	146.4761
TRIM66	111.5603	94.06566	16.07375	147.3639
TRIM67	1.665079	1.832448	20.09219	3.994803
TRIM68	78.25872	40.92467	20.09219	42.61123

TRIM69	7.492856	1.221632	4.018438	12.42828
TRIM7	558.6341	196.6827	56.25813	93.21207
TRIM71	0	0	24.11063	0
TRIM72	0	1.221632	36.16594	1.775468
TRIM73	0	0	0	0
TRIM74	0	0	0	0
TRIM77P	0	0	0	0
TRIM78P	1.665079	0	0	1.331601
TRIM8	551.9737	315.7918	606.7841	507.7839
TRIM9	0	2.443264	12.05531	3.107069
TRIML1	0	0.610816	8.036876	0
TRIML2	0	0	0	0
TRIO	112.3928	232.7209	225.0325	452.3005
TRIOBP	843.3626	1191.702	650.987	757.2371
TRIP10	1471.93	431.8469	317.4566	392.8223
TRIP11	24.14365	131.3254	36.16594	114.0738
TRIP12	448.7388	527.745	2756.648	510.4471
TRIP13	105.7325	152.0932	28.12907	99.42621
TRIP4	74.92856	318.2351	172.7928	241.0198
TRIP6	342.1738	3395.526	522.3969	2177.168
TRIT1	192.3166	176.5258	72.33188	138.4865
TRMT1	830.042	298.689	212.9772	273.866
TRMT11	127.3786	59.85996	92.42408	54.15178
TRMT112	626.0698	685.9463	12.05531	513.998
TRMT12	140.6992	103.2279	36.16594	67.91165
TRMT1L	16.65079	64.13568	245.1247	63.47298
TRMT2A	585.2753	740.9198	293.346	518.4367
TRMT2B	56.61269	158.8121	52.23969	131.8285
TRMT5	94.90951	93.45484	48.22126	87.88567
TRMT6	85.75158	200.3476	80.36876	126.5021
TRMT61A	354.6619	551.5668	28.12907	491.8047
TRMT61B	9.990475	53.14099	0	35.50936
TRMU	263.915	244.3264	136.6269	150.4709
TRNAU1AF	273.9055	300.5214	1707.836	230.367
TRNP1	1953.138	1426.866	24.11063	551.7267
TRNT1	44.1246	45.8112	20.09219	33.29003
TRO	4.995237	4.275712	36.16594	6.658005
TROAP	473.715	134.9903	0	128.7214
TROVE2	9.157935	40.92467	16.07375	35.50936
TRPA1	1.665079	0	4.018438	0
TRPC1	2.497619	9.162239	36.16594	14.64761
TRPC2	0	0	16.07375	1.775468
TRPC3	0	3.05408	12.05531	0.443867
TRPC4	0	0	16.07375	0.443867
TRPC4AP	1024.024	1065.263	1474.767	1219.747
TRPC5	0	0	28.12907	0
TRPC6	1.665079	1.221632	16.07375	4.43867

TRPC7	0	0.610816	8.036876	0
TRPM1	0	0	12.05531	0.887734
TRPM2	198.1444	4.886528	24.11063	17.75468
TRPM3	1.665079	1.832448	28.12907	0.443867
TRPM4	916.6261	1192.313	24.11063	617.8629
TRPM5	87.41666	0.610816	8.036876	2.219335
TRPM6	1.665079	2.443264	36.16594	0.887734
TRPM7	34.96666	139.266	184.8482	165.5624
TRPM8	3.330158	28.70835	8.036876	63.02912
TRPS1	26.64127	45.8112	112.5163	60.36591
TRPT1	423.7626	439.7875	64.29501	323.5791
TRPV1	59.11031	39.09222	28.12907	59.03431
TRPV2	37.46428	13.43795	313.4382	24.85655
TRPV3	0	1.221632	4.018438	3.107069
TRPV4	401.2841	73.29791	333.5304	150.4709
TRPV5	1.665079	3.05408	0	0.887734
TRPV6	23.31111	709.1573	12.05531	876.1935
TRRAP	252.2595	219.8937	225.0325	372.8483
TRUB1	32.46904	36.03814	16.07375	24.85655
TRUB2	323.0254	205.845	20.09219	173.552
TRY6	67.43571	1.221632	36.16594	57.25885
TSC1	211.4651	95.8981	104.4794	196.1892
TSC2	745.9555	510.0313	405.8622	696.8712
TSC22D1	347.169	649.9082	1145.255	501.5697
TSC22D1-A	6.660317	4.886528	0	5.770271
TSC22D2	32.46904	42.1463	257.18	74.56966
TSC22D3	387.1309	258.3751	3017.847	255.6674
TSC22D4	1028.186	1051.214	691.1713	1340.922
TSEN15	108.2301	81.23852	48.22126	74.12579
TSEN2	47.45476	36.64896	28.12907	25.74429
TSEN34	459.5618	708.5465	699.2082	389.7152
TSEN54	770.0991	452.0038	132.6085	304.0489
TSFM	411.2746	198.5152	297.3644	132.7162
TSG1	0	0	0	0
TSG101	454.5666	406.1926	1088.997	298.7225
TSGA10	4.995237	16.49203	48.22126	27.07589
TSGA10IP	0	0	0	0
TSGA13	0	0	4.018438	0
TSHB	0	0	0	0
TSHR	0	1.221632	20.09219	0.887734
TSHZ1	24.97619	13.43795	184.8482	27.07589
TSHZ2	36.63174	9.162239	128.59	47.49377
TSHZ3	23.31111	13.43795	172.7928	17.75468
TSIX	0	4.275712	4.018438	5.770271
TSKS	0	0	4.018438	0.887734
TSKU	361.3222	248.6021	16.07375	254.7797
TSLP	0.83254	5.497344	0	4.43867

TSN	434.5857	522.2476	325.4935	332.0125
TSNARE1	19.14841	29.31917	0	35.50936
TSNAX	34.96666	71.46547	96.44251	75.45739
TSNAX-DIS	0	0.610816	4.018438	0
TSNAXIP1	69.93332	15.2704	16.07375	24.41269
TSPAN1	5003.563	2453.037	108.4978	1685.807
TSPAN10	1.665079	5.497344	0	5.326404
TSPAN11	4.162698	8.551423	84.3872	14.64761
TSPAN12	87.41666	128.8822	52.23969	65.24845
TSPAN13	169.0055	364.0463	301.3829	506.4523
TSPAN14	485.3706	830.0989	188.8666	838.4648
TSPAN15	1393.671	2228.257	84.3872	1599.253
TSPAN16	0	0.610816	0	0.443867
TSPAN17	782.5872	638.9135	683.1345	490.0292
TSPAN18	4.995237	1.832448	0	0.887734
TSPAN19	0	0	0	0
TSPAN2	7.492856	2.443264	0	10.20894
TSPAN3	2341.934	3820.654	743.411	3007.199
TSPAN31	91.57935	220.5046	132.6085	150.4709
TSPAN32	0	0	0	0
TSPAN33	21.64603	4.275712	36.16594	7.101872
TSPAN4	154.0198	95.28729	269.2353	126.0582
TSPAN5	61.60793	191.7962	188.8666	178.8784
TSPAN6	158.1825	583.9401	100.461	304.9366
TSPAN7	16.65079	13.43795	281.2907	27.07589
TSPAN8	3940.41	4780.856	88.40564	1253.037
TSPAN9	175.6659	156.3689	36.16594	205.9543
TSPEAR	0	0	0	0
TSPO	10298.51	5751.443	811.7245	2354.715
TSPO2	3.330158	0.610816	0	0.443867
TSPY1	0	0	4.018438	0
TSPY2	0	0	0	0
TSPY26P	0	1.221632	4.018438	11.09668
TSPY3	0	0	0	0
TSPY4	0	0	0	0
TSPY8	0	0	0	0
TSPYL1	198.1444	112.3901	104.4794	126.946
TSPYL2	201.4746	65.35731	237.0878	196.6331
TSPYL4	61.60793	45.20038	20.09219	70.13099
TSPYL5	0	14.65958	0	9.765074
TSPYL6	0	1.832448	0	1.331601
TSR1	49.95237	118.4983	116.5347	102.0894
TSR2	396.2888	175.915	140.6453	213.5
TSSC1	387.1309	230.8884	112.5163	155.3535
TSSC4	631.8975	222.337	60.27657	177.9907
TSSK1B	0	0	0	0
TSSK2	0	0	0	0

TSSK3	67.43571	20.15693	4.018438	34.17776
TSSK4	2.497619	4.886528	4.018438	10.65281
TSSK6	9.990475	7.940607	48.22126	13.31601
TST	2505.944	2352.863	124.5716	1066.612
TSTA3	6245.712	1690.128	257.18	1183.793
TSTD1	464.5571	626.0864	12.05531	299.1664
TSTD2	2.497619	8.551423	16.07375	22.19335
TTBK1	233.9436	14.65958	321.475	19.08628
TTBK2	2.497619	7.940607	140.6453	30.62682
TTC1	377.973	340.2245	241.1063	226.816
TTC12	95.74205	150.8715	72.33188	82.1154
TTC13	236.4412	134.3795	52.23969	153.1341
TTC14	103.2349	163.0879	188.8666	184.6487
TTC16	3.330158	0.610816	0	0.887734
TTC17	253.092	166.1419	164.756	237.9127
TTC18	88.2492	22.60019	4.018438	36.3971
TTC19	89.08173	249.2129	28.12907	216.6071
TTC21A	193.9817	39.09222	12.05531	51.04471
TTC21B	37.46428	53.14099	56.25813	48.82537
TTC22	45.78968	51.30854	0	55.92724
TTC23	106.5651	78.79526	12.05531	86.1102
TTC23L	0.83254	3.05408	0	7.101872
TTC24	0	0	0	0
TTC25	39.12936	14.65958	4.018438	15.53535
TTC26	22.47857	37.25977	0	27.51976
TTC27	79.09126	112.3901	76.35032	51.04471
TTC28	2.497619	5.497344	36.16594	13.31601
TTC28-AS1	164.8428	58.02752	0	30.62682
TTC29	3.330158	0	4.018438	0.443867
TTC3	546.9785	364.0463	40.18438	456.2953
TTC30A	12.48809	39.09222	8.036876	71.46259
TTC30B	5.827777	14.65958	16.07375	27.07589
TTC31	149.0246	153.3148	0	157.5728
TTC32	48.2873	12.21632	132.6085	15.09148
TTC33	21.64603	48.86528	72.33188	42.61123
TTC34	0	0	0	0.887734
TTC35	192.3166	304.7972	940.3145	193.9699
TTC36	4.162698	3.664896	0	6.214138
TTC37	77.42618	227.8344	20.09219	176.2152
TTC38	239.7714	391.533	24.11063	222.3774
TTC39A	331.3508	315.181	16.07375	247.2339
TTC39B	55.78015	60.47078	40.18438	91.88047
TTC39C	221.4555	75.74118	333.5304	71.01872
TTC3P1	1.665079	9.773055	0	11.09668
TTC4	0	5.497344	0	2.219335
TTC40	32.46904	0	8.036876	0
TTC5	29.13889	63.52486	297.3644	44.83057



TTC7A	382.1357	298.689	72.33188	331.5687
TTC7B	7.492856	7.329791	365.6779	30.62682
TTC8	53.28253	100.7846	12.05531	83.00313
TTC9	31.6365	204.0125	24.11063	235.2495
TTC9B	14.15317	1.221632	48.22126	1.775468
TTC9C	58.27777	100.1738	8.036876	91.43661
TTF1	80.75634	54.36262	24.11063	54.15178
TTF2	99.90475	83.07097	44.20282	77.67673
TTI1	116.5555	141.7093	80.36876	180.6539
TTI2	11.65555	50.08691	72.33188	28.40749
TTK	44.95714	43.36793	12.05531	31.51456
TTL	109.8952	88.56831	68.31345	66.58005
TLL1	59.11031	74.51955	56.25813	45.7183
TLL10	48.2873	7.940607	0	15.09148
TLL11	19.98095	8.551423	8.036876	7.989606
TLL12	1524.38	1181.318	36.16594	669.3515
TLL13	6.660317	1.221632	36.16594	3.550936
TLL2	0.83254	0.610816	0	0
TLL3	24.14365	8.551423	4.018438	24.85655
TLL4	249.7619	340.8353	56.25813	305.8244
TLL5	65.77063	122.774	40.18438	120.7318
TLL6	28.30635	5.497344	0	3.994803
TLL7	20.81349	13.43795	0	17.31081
TLL9	7.492856	2.443264	20.09219	0
TTN	71.5984	64.13568	2258.362	85.66633
TTPA	0	0	8.036876	0
TTPAL	95.74205	137.4336	68.31345	131.8285
TTR	42.45952	1.832448	4.018438	1.331601
TTY1	0	0	0	0
TTY10	0	0	0	0
TTY11	0	0	0	0
TTY12	0	0	0	0
TTY13	0	0	0	0
TTY14	45.78968	0	0	0
TTY15	8.325396	0	0	0
TTY16	0	0	0	0
TTY17A	0	0	0	0
TTY17B	0	0	0	0
TTY17C	0	0	0	0
TTY18	0	0	0	0
TTY19	0	0	0	0
TTY1B	0	0	0	0
TTY2	0	0	0	0
TTY20	0	0	0	0
TTY21	0	0	0	0
TTY21B	0	0	0	0
TTY22	0	0	0	0

TTY23	0	0	0	0
TTY23B	0	0	0	0
TTY2B	0	0	0	0
TTY3	0	0	0	0
TTY3B	0	0	0	0
TTY4	0	0	0	0
TTY4B	0	0	0	0
TTY4C	0	0	0	0
TTY5	0	0	0	0
TTY6	0	0	0	0
TTY6B	0	0	0	0
TTY7	0	0	0	0
TTY7B	0	0	0	0
TTY8	0	0	0	0
TTY8B	0	0	0	0
TTY9A	0	0	0	0
TTY9B	0	0	0	0
TYH1	2.497619	6.718975	0	13.75988
TYH2	0	2.443264	64.29501	8.433473
TYH3	803.4007	1030.447	140.6453	1466.98
TUB	0	0.610816	32.1475	0
TUBA1A	274.7381	249.8237	3564.355	279.1924
TUBA1B	3530.8	2100.596	2370.878	1226.848
TUBA1C	5443.976	1749.377	3102.234	925.0189
TUBA3C	1.665079	0	60.27657	0
TUBA3D	0.83254	1.221632	12.05531	0.443867
TUBA3E	0	0	0	0.443867
TUBA4A	1794.955	916.2239	6051.768	866.4284
TUBA4B	37.46428	1.221632	104.4794	2.219335
TUBA8	74.92856	21.37856	132.6085	20.86175
TUBAL3	0	1.221632	8.036876	3.107069
TUBB	279.7333	50.08691	0	27.96362
TUBB1	4.162698	5.497344	16.07375	7.989606
TUBB2A	110.7278	114.2226	606.7841	124.7266
TUBB2B	4.995237	9.162239	92.42408	15.53535
TUBB3	173.1682	412.9116	859.9457	461.6217
TUBB4A	24.14365	21.98937	486.231	20.86175
TUBB4B	3820.524	2415.166	1619.431	1301.862
TUBB6	283.0635	243.7156	671.0792	260.1061
TUBB8	4.995237	0	52.23969	5.770271
TUBBP5	6.660317	0	4.018438	0.443867
TUBD1	11.65555	26.8759	24.11063	22.19335
TUBE1	34.96666	29.92998	4.018438	20.86175
TUBG1	168.173	210.1207	289.3275	221.9335
TUBG2	25.80873	91.62239	36.16594	106.972
TUBGCP2	1108.11	743.363	261.1985	608.0978
TUBGCP3	57.44523	80.01689	124.5716	77.67673

TUBGCP4	19.98095	57.4167	152.7006	73.68193
TUBGCP5	159.8476	108.1144	100.461	118.0686
TUBGCP6	301.3793	563.1723	20.09219	538.8546
TUFM	2651.639	1348.071	892.0932	1116.769
TUFT1	228.9484	264.4833	48.22126	288.9574
TUG1	750.1182	835.5962	64.29501	909.4835
TULP1	0	4.275712	28.12907	3.550936
TULP2	0.83254	0	4.018438	0.443867
TULP3	97.40713	197.9044	16.07375	209.9491
TULP4	97.40713	78.79526	176.8113	86.1102
TUSC1	135.704	54.36262	285.3091	46.60604
TUSC2	495.361	205.845	333.5304	203.735
TUSC3	24.97619	258.986	425.9544	297.8348
TUSC5	0.83254	0	0	0
TUT1	354.6619	247.3805	52.23969	263.657
TWF1	24.14365	45.20038	32.1475	45.7183
TWF2	1171.383	538.1289	791.6323	391.9346
TWIST1	11.65555	29.92998	1197.495	59.03431
TWIST2	2.497619	6.10816	273.2538	7.545739
TWISTNB	78.25872	99.563	0	61.69752
TWSG1	41.62698	34.81651	20.09219	44.83057
TXK	6.660317	5.497344	8.036876	8.433473
TXLNA	870.8364	455.0579	196.9035	630.735
TXLNB	0	1.221632	8.036876	13.75988
TXLNG	47.45476	36.03814	72.33188	35.50936
TXLNG2P	217.2928	0	0	0.443867
TXN	4896.998	1931.4	723.3188	639.6124
TXN2	966.5784	832.5421	872.0011	548.1758
TXNDC11	427.9253	524.6909	80.36876	484.2589
TXNDC12	410.442	565.0048	176.8113	412.7963
TXNDC15	98.23967	163.0879	196.9035	135.8233
TXNDC16	14.98571	11.6055	12.05531	15.53535
TXNDC17	482.873	624.8647	458.1019	364.4148
TXNDC2	0	0	0	0
TXNDC3	0	1.221632	0	0
TXNDC5	0.83254	14.65958	20.09219	36.3971
TXNDC8	0	0	0	0.443867
TXNDC9	74.92856	120.9416	598.7473	89.21727
TXNIP	2555.064	1999.811	1989.127	1777.244
TXNL1	169.8381	293.1917	1253.753	238.3566
TXNL4A	443.7436	354.8841	333.5304	188.6435
TXNL4B	130.7087	83.68179	52.23969	68.35552
TXNRD1	304.7095	402.5277	132.6085	403.4751
TXNRD2	503.6864	279.7537	108.4978	157.1289
TXNRD3	60.77539	34.20569	16.07375	21.74948
TXNRD3NE	0	0	0	0
TYK2	707.6586	310.2945	108.4978	520.656

TYMP	344.6714	2074.331	12.05531	943.6613
TYMS	23.31111	158.2013	96.44251	90.54887
TYR	0	0	4.018438	0
TYRO3	84.0865	98.95218	8.036876	141.1497
TYRO3P	0	0.610816	4.018438	0.887734
TYROBP	158.1825	75.74118	1812.316	98.53848
TYRP1	0	3.05408	0	1.331601
TYSND1	283.0635	279.7537	108.4978	199.2963
TYW1	49.11984	70.85465	60.27657	74.56966
TYW1B	8.325396	14.04877	0	7.545739
TYW3	70.76586	87.34668	20.09219	102.9771
TYW5	55.78015	60.47078	80.36876	58.14658
U2AF1	1132.254	452.6146	1193.476	305.8244
U2AF1L4	165.6754	141.7093	450.0651	135.3794
U2AF2	1258.8	1724.944	2306.583	1469.644
U2SURP	465.3896	390.3114	534.4523	394.1539
UACA	131.5413	243.1047	208.9588	230.367
UAP1	254.7571	298.689	988.5358	226.3722
UAP1L1	117.3881	61.0816	2652.169	154.4657
UBA1	2005.588	905.2292	2949.534	1085.699
UBA2	122.3833	417.1873	433.9913	213.5
UBA3	84.91904	158.2013	200.9219	131.3846
UBA5	291.3889	157.5905	446.0466	147.8077
UBA52	7368.808	2763.331	10676.99	1686.251
UBA6	134.0389	161.8662	24.11063	196.1892
UBA7	1058.99	324.9541	574.6366	521.9876
UBAC1	504.519	211.3423	433.9913	168.2256
UBAC2	865.8412	605.3186	148.6822	485.1467
UBAC2-AS	8.325396	15.88121	0	8.433473
UBAP1	297.2166	470.9391	618.8395	403.0313
UBAP1L	1.665079	4.275712	8.036876	24.41269
UBAP2	296.3841	254.0994	160.7375	333.3441
UBAP2L	604.4237	428.7928	2001.182	747.9159
UBASH3A	2.497619	0.610816	24.11063	0
UBASH3B	47.45476	360.9922	40.18438	198.4086
UBB	1989.77	3309.401	11223.5	2666.309
UBC	4271.761	4303.809	8924.951	2531.374
UBD	19.14841	0	0	0
UBE2A	255.5897	425.7387	474.1757	251.6726
UBE2B	318.8627	183.2448	2258.362	210.393
UBE2C	977.4015	435.5118	8.036876	321.3597
UBE2D1	34.13412	59.24915	208.9588	52.37631
UBE2D2	454.5666	329.2298	2306.583	307.5998
UBE2D3	740.1277	886.2939	2921.404	863.7652
UBE2D4	40.79444	85.51423	24.11063	71.90646
UBE2DNL	0	0	0	0
UBE2E1	188.9865	197.2936	747.4295	178.4345

UBE2E2	11.65555	28.70835	325.4935	55.48338
UBE2E3	172.3357	630.3621	695.1898	350.6549
UBE2F	149.8571	194.2395	116.5347	153.578
UBE2F-SCL	0	0	0	0
UBE2G1	80.75634	70.85465	148.6822	111.8545
UBE2G2	674.3571	287.6943	281.2907	322.2475
UBE2H	311.3698	404.3602	438.0097	370.1851
UBE2I	1393.671	676.7841	1639.523	618.7506
UBE2J1	258.9198	180.1907	329.5119	149.1393
UBE2J2	779.257	349.9975	562.5813	347.104
UBE2K	372.9777	407.4142	1603.357	425.6685
UBE2L3	839.1999	577.2211	888.0748	380.8379
UBE2L6	556.1364	204.6233	96.44251	305.3805
UBE2M	705.9936	560.1182	1611.394	389.7152
UBE2MP1	15.81825	9.162239	200.9219	10.65281
UBE2N	298.8817	236.9966	638.9316	195.7454
UBE2NL	6.660317	1.832448	108.4978	5.326404
UBE2O	315.5325	167.3636	180.8297	209.9491
UBE2Q1	540.3182	671.8975	2214.159	593.0063
UBE2Q2	25.80873	79.40607	269.2353	85.22247
UBE2Q2P1	0	3.05408	0	9.765074
UBE2Q2P2	0	0	0	0
UBE2Q2P3	0	0	0	0
UBE2QL1	0	0	12.05531	0.443867
UBE2R2	542.8158	569.8913	2816.925	514.8857
UBE2S	725.142	400.6953	36.16594	216.1632
UBE2T	201.4746	329.8406	8.036876	151.3587
UBE2U	0	0	0	0.443867
UBE2V1	0.83254	4.886528	0	3.107069
UBE2V2	188.1539	180.1907	229.051	118.9564
UBE2W	53.28253	64.74649	349.6041	76.78899
UBE2Z	690.1753	1003.571	1663.633	786.0885
UBE3A	94.07697	150.2607	305.4013	158.9044
UBE3B	170.6706	164.3095	84.3872	188.1996
UBE3C	313.8674	505.1448	132.6085	406.5822
UBE3D	19.98095	11.6055	0	7.545739
UBE4A	264.7476	337.1704	108.4978	360.42
UBE4B	146.527	187.5205	273.2538	247.2339
UBFD1	243.1016	154.5364	421.936	230.8108
UBIAD1	90.74681	120.3307	20.09219	98.53848
UBL3	55.78015	80.62771	743.411	88.32954
UBL4A	363.8198	775.7363	249.1432	374.6238
UBL4B	0	0	0	0
UBL5	1560.179	954.0945	2045.385	603.6591
UBL7	233.9436	303.5755	1165.347	278.7485
UBLCP1	37.46428	82.46015	68.31345	71.90646
UBN1	313.0349	275.478	546.5076	367.078

UBN2	75.7611	102.0063	233.0694	169.5572
UBOX5	94.07697	111.1685	52.23969	57.70271
UBP1	148.192	116.055	245.1247	169.1133
UBQLN1	273.9055	266.3158	100.461	250.7849
UBQLN2	79.09126	73.90873	526.4154	130.9408
UBQLN3	0	0	4.018438	0
UBQLN4	234.7762	189.3529	8.036876	197.077
UBQLNL	6.660317	4.275712	0	5.326404
UBR1	25.80873	141.0985	152.7006	201.5156
UBR2	167.3405	150.2607	269.2353	167.3379
UBR3	54.11507	117.8875	225.0325	127.8337
UBR4	1075.641	845.3693	859.9457	1125.647
UBR5	403.7817	411.0791	1406.453	554.8338
UBR7	111.5603	134.9903	84.3872	125.1705
UBTD1	74.92856	39.09222	377.7332	85.66633
UBTD2	143.1968	80.62771	72.33188	109.6352
UBTF	623.5721	729.9251	1800.26	545.0687
UBTFL1	0	0	0	0
UBXN1	1729.185	1285.768	6686.681	909.9274
UBXN10	153.1873	110.5577	0	60.36591
UBXN11	1937.32	524.6909	172.7928	713.2943
UBXN2A	22.47857	53.14099	20.09219	26.63202
UBXN2B	57.44523	65.35731	36.16594	57.70271
UBXN4	213.9627	323.7325	176.8113	426.1123
UBXN6	1203.852	514.307	76.35032	433.6581
UBXN7	13.32063	29.92998	84.3872	43.49897
UBXN8	32.46904	41.53548	12.05531	42.16737
UCA1	33.30158	279.7537	12.05531	555.7215
UCHL1	0.83254	0	32.1475	12.87214
UCHL3	230.6135	181.4123	409.8807	89.21727
UCHL5	76.59364	128.8822	614.821	117.1809
UCK1	218.1254	149.6499	112.5163	117.1809
UCK2	540.3182	436.1226	68.31345	379.9502
UCKL1	698.5007	400.0844	438.0097	300.9418
UCKL1-AS1	17.48333	8.551423	0	21.30562
UCMA	0	0	8.036876	0
UCN	64.10555	12.21632	24.11063	16.42308
UCN2	0	17.71366	0	27.96362
UCN3	0	55.58425	0	15.53535
UCP1	0	0	0	0.887734
UCP2	962.4158	464.8309	15458.93	1064.837
UCP3	60.77539	10.99469	646.9685	39.0603
UEVLD	19.98095	28.09753	24.11063	18.64241
UFC1	751.7832	1463.515	2025.293	831.8068
UFD1L	539.4856	381.76	233.0694	242.7953
UFL1	27.47381	53.7518	52.23969	64.80458
UFM1	199.8095	293.8025	341.5672	237.4689

UFSP1	35.7992	106.282	16.07375	67.02392
UFSP2	181.4936	191.1854	216.9957	88.32954
UG0898H0	0	1.832448	4.018438	2.219335
UGCG	4.162698	28.09753	48.22126	26.63202
UGDH	57.44523	193.0178	1004.61	309.3753
UGGT1	388.796	413.5224	237.0878	457.6269
UGGT2	99.90475	111.7793	32.1475	89.21727
UGP2	360.4896	634.027	1101.052	432.3265
UGT1A1	4.162698	1.832448	0	1.775468
UGT1A10	13.32063	119.7199	4.018438	83.447
UGT1A3	0	0	0	0.443867
UGT1A4	0	1.221632	0	0
UGT1A5	0	2.443264	0	0
UGT1A6	3.330158	17.10285	0	73.68193
UGT1A7	2.497619	0	12.05531	0.887734
UGT1A8	1.665079	0	0	0.443867
UGT1A9	0	1.221632	0	0.887734
UGT2A1	0	0	0	0
UGT2A2	0	0	0	0
UGT2A3	0	0	0	0
UGT2B10	0	0	0	0
UGT2B11	0	0	0	19.97402
UGT2B15	0.83254	17.10285	0	3.107069
UGT2B17	0	3.05408	0	1.331601
UGT2B28	0	1.221632	0	4.43867
UGT2B4	0	0	0	2.663202
UGT2B7	98.23967	108.1144	4.018438	59.47818
UGT3A1	0	0	0	0
UGT3A2	0	0	0	0
UGT8	13.32063	220.5046	0	135.3794
UHMK1	69.10078	129.493	184.8482	176.2152
UHRF1	89.08173	45.20038	0	51.48857
UHRF1BP1	29.13889	45.8112	48.22126	63.91685
UHRF1BP1	24.97619	25.04345	8.036876	29.73909
UHRF2	165.6754	219.2829	357.641	178.4345
UIMC1	228.9484	172.2501	241.1063	145.5884
ULBP1	4.995237	4.886528	0	0.443867
ULBP2	8.325396	1.832448	0	3.550936
ULBP3	0	0	0	0.887734
ULK1	657.7063	141.0985	80.36876	254.3358
ULK2	25.80873	54.36262	345.5857	84.7786
ULK3	512.8444	375.6518	52.23969	645.3826
ULK4	27.47381	11.6055	0	11.54054
ULK4P1	0	0	0	0
ULK4P2	0	0	0	0
ULK4P3	0	0	0	0
UMOD	0.83254	0	0	1.331601

UMODL1	0	0	0	0.887734
UMPS	498.6912	312.127	164.756	176.6591
UNC119	274.7381	94.67647	317.4566	150.9148
UNC119B	258.0873	129.493	36.16594	119.4002
UNC13A	9.157935	3.05408	28.12907	8.433473
UNC13B	595.2658	750.082	124.5716	571.2569
UNC13C	0	0	16.07375	0
UNC13D	88.2492	1582.624	136.6269	1035.986
UNC45A	633.5626	607.1511	570.6182	602.7714
UNC45B	1.665079	9.162239	506.3232	6.658005
UNC50	109.8952	168.5852	297.3644	130.053
UNC5A	1.665079	4.886528	24.11063	6.214138
UNC5B	129.8762	87.34668	56.25813	124.2828
UNC5C	4.162698	19.54611	36.16594	18.19855
UNC5CL	862.511	116.055	16.07375	105.6404
UNC5D	0	0	8.036876	0
UNC79	0.83254	1.221632	44.20282	3.107069
UNC80	0	1.832448	36.16594	0.887734
UNC93A	4.162698	0	4.018438	0.443867
UNC93B1	1432.801	962.6459	538.4707	733.7122
UNCX	0	0	8.036876	0
UNG	263.0825	143.5417	12.05531	84.33473
UNK	250.5944	185.0772	216.9957	158.4605
UNKL	219.7904	111.1685	32.1475	133.604
UNQ6494	0.83254	0	0	0
UNQ6975	0.83254	6.718975	4.018438	3.994803
UOX	0	1.221632	4.018438	0.443867
UPB1	0	0	0	1.331601
UPF1	966.5784	432.4577	184.8482	570.813
UPF2	239.7714	198.5152	618.8395	252.1165
UPF3A	102.4024	92.23321	36.16594	57.70271
UPF3B	138.2016	192.407	196.9035	122.5073
UPK1A	1.665079	2.443264	12.05531	0.887734
UPK1B	770.0991	1.221632	20.09219	0.443867
UPK2	0	15.2704	0	47.49377
UPK3A	0.83254	5.497344	4.018438	3.550936
UPK3B	6.660317	18.32448	12.05531	78.1206
UPK3BL	0	0	0	0
UPP1	339.6761	351.2192	317.4566	200.184
UPP2	0.83254	2.443264	0	0.887734
UPRT	11.65555	26.8759	16.07375	26.18815
UQCC	159.0151	200.9584	120.5531	210.393
UQCR10	1527.71	1241.789	900.1301	663.5812
UQCR11	1722.524	875.9101	1896.703	598.7766
UQCRB	2475.973	1646.149	1571.209	786.5324
UQCRBP1	2.497619	3.05408	108.4978	3.994803
UQCRC1	2417.695	1238.124	2286.491	809.1696



UQCRC2	785.0848	855.1423	610.8026	541.5178
UQCRFS1	461.2269	540.5721	88.40564	197.077
UQCRH	1632.61	657.238	128.59	484.7028
UQCRHL	165.6754	80.01689	2471.339	74.12579
UQCRCQ	2240.364	981.5812	711.2635	585.0167
URB1	104.0674	154.5364	8.036876	123.8389
URB2	58.27777	90.40076	8.036876	79.4522
URGCP	352.1642	390.9222	76.35032	394.1539
URGCP-MF	0	0	0	0
URI1	188.1539	420.8522	128.59	159.3483
URM1	868.3388	407.4142	249.1432	357.3129
UROC1	0	0	16.07375	0
UROD	710.9888	465.4418	1157.31	313.3701
UROS	372.1452	140.4877	32.1475	110.9668
USE1	282.2309	136.8228	747.4295	89.66114
USF1	969.0761	607.7619	795.6507	577.471
USF2	760.1086	674.9516	1506.914	427.8878
USH1C	1485.251	712.2114	44.20282	404.8067
USH1G	0.83254	0	8.036876	0.887734
USH2A	4.995237	6.718975	32.1475	3.107069
USHBP1	4.162698	7.329791	257.18	10.20894
USMG5	497.0261	294.4133	401.8438	135.3794
USO1	248.9293	472.1607	160.7375	358.6446
USP1	62.44047	130.7146	180.8297	84.7786
USP10	91.57935	102.0063	60.27657	138.9304
USP11	188.9865	92.84402	48.22126	152.6903
USP12	79.09126	92.23321	156.7191	55.48338
USP13	98.23967	100.1738	60.27657	78.1206
USP14	116.5555	381.1492	225.0325	303.605
USP15	181.4936	159.423	486.231	149.1393
USP16	102.4024	97.73055	361.6594	83.447
USP17	0	0	0	0
USP17L2	0	0	0	0.443867
USP17L5	0	0	0	0
USP17L6P	0	0	0	0
USP18	14.15317	75.74118	16.07375	66.13619
USP19	765.9364	296.8566	1651.578	449.6373
USP2	32.46904	5.497344	92.42408	12.87214
USP20	387.9634	96.50892	40.18438	146.4761
USP21	193.1492	161.8662	530.4338	198.8524
USP22	1197.192	441.6199	28.12907	592.1186
USP24	318.0301	280.9753	293.346	311.5946
USP25	60.77539	119.7199	180.8297	105.1965
USP26	0	0	0	0
USP27X	9.990475	9.162239	16.07375	14.64761
USP28	33.30158	62.91404	44.20282	65.69232
USP29	0	0.610816	0	0

USP3	151.5222	251.6562	148.6822	297.8348
USP30	49.95237	31.15161	36.16594	33.29003
USP31	63.27301	69.63302	72.33188	85.66633
USP32	31.6365	115.4442	72.33188	117.6248
USP32P1	0.83254	0	4.018438	1.775468
USP32P2	0	0	0	0
USP33	90.74681	91.62239	80.36876	116.737
USP34	282.2309	315.181	851.9089	396.8171
USP35	69.93332	89.78995	76.35032	126.0582
USP36	144.8619	131.3254	20.09219	221.4896
USP37	66.60317	103.8387	24.11063	79.00833
USP38	26.64127	64.74649	136.6269	71.01872
USP39	382.1357	279.7537	337.5488	239.6882
USP4	375.4753	229.6668	606.7841	258.3306
USP40	393.7912	514.9178	28.12907	648.9336
USP42	47.45476	55.58425	84.3872	78.56446
USP43	99.07221	65.96812	8.036876	63.02912
USP44	0	0	0	0
USP45	28.30635	22.60019	4.018438	20.41788
USP46	41.62698	56.80588	120.5531	78.56446
USP47	291.3889	280.3645	996.5726	266.3202
USP48	357.992	423.9063	357.641	313.3701
USP49	0	6.718975	48.22126	6.214138
USP5	1101.45	845.9801	1297.955	789.1956
USP50	0	0	0	0.443867
USP51	0.83254	0	4.018438	0
USP53	64.10555	114.2226	16.07375	210.393
USP54	331.3508	197.9044	32.1475	266.7641
USP6	0	0	12.05531	3.107069
USP6NL	22.47857	60.47078	24.11063	82.1154
USP7	632.7301	436.7334	574.6366	424.3369
USP8	37.46428	137.4336	301.3829	164.6747
USP9X	303.0444	353.6624	594.7288	434.5458
USP9Y	7.492856	10.38387	72.33188	13.31601
USPL1	117.3881	152.0932	20.09219	113.1861
UST	17.48333	2.443264	32.1475	15.53535
UTF1	0	0	4.018438	0
UTP11L	151.5222	144.7634	305.4013	122.9512
UTP14A	155.6849	246.1588	92.42408	110.079
UTP14C	35.7992	80.62771	225.0325	82.55927
UTP15	41.62698	52.53017	28.12907	46.16217
UTP18	155.6849	281.5862	309.4197	132.2724
UTP20	71.5984	105.0603	132.6085	84.33473
UTP23	38.29682	65.96812	20.09219	36.84096
UTP3	283.896	306.6296	618.8395	240.1321
UTP6	323.8579	426.9604	92.42408	248.1217
UTRN	74.92856	147.8175	405.8622	102.0894

UTS2	0	0	0	0
UTS2D	0.83254	0	0	0.443867
UTS2R	0	0	0	0.443867
UTY	43.29206	0	0	1.331601
UVRAG	79.9238	67.18975	144.6638	75.90126
UXS1	152.3547	143.5417	421.936	144.2568
UXT	631.065	267.5374	594.7288	150.4709
VAC14	496.1936	295.0241	421.936	288.9574
VAMP1	119.0532	28.70835	64.29501	77.67673
VAMP2	183.9912	256.5427	1109.089	247.2339
VAMP3	577.7825	486.2095	68.31345	386.6082
VAMP4	38.29682	52.53017	474.1757	55.48338
VAMP5	153.1873	119.7199	148.6822	112.2984
VAMP7	0	0	0	0
VAMP8	2791.505	1412.206	2109.68	1084.367
VANGL1	125.7135	157.5905	48.22126	153.578
VANGL2	23.31111	20.15693	40.18438	71.46259
VAPA	496.1936	942.489	2037.348	715.5136
VAPB	452.069	542.4046	433.9913	463.841
VARS	0	0	0	0
VARS2	12.48809	6.10816	4.018438	7.545739
VASH1	84.0865	47.03283	56.25813	60.80978
VASH2	1.665079	1.832448	16.07375	1.775468
VASN	17.48333	65.96812	160.7375	145.1445
VASP	1909.013	1341.963	478.1941	872.6426
VAT1	194.8143	419.0197	2752.63	407.4699
VAT1L	0	0	12.05531	0.443867
VAV1	241.4365	113.6118	429.9729	213.0562
VAV2	784.2523	604.097	160.7375	516.2173
VAV3	2.497619	230.2776	144.6638	117.6248
VAX1	0	0	44.20282	0.443867
VAX2	4.995237	0	28.12907	0
VBP1	104.9	263.8725	164.756	103.421
VCAM1	13.32063	9.773055	241.1063	18.64241
VCAN	16.65079	1070.76	168.7744	598.7766
VCL	390.4611	609.5943	140.6453	796.2974
VCP	2870.596	3244.044	7835.954	2378.683
VCPIP1	57.44523	65.96812	233.0694	102.0894
VCX	0	0	0	0
VCX2	0	0	0	0.443867
VCX3A	0	0	0	0
VCX3B	0.83254	0	0	0.443867
VCY	0	0	0	0
VCY1B	0	0	0	0
VDAC1	1370.36	911.9482	204.9403	539.7423
VDAC2	218.1254	217.4505	401.8438	183.7609
VDAC3	1078.139	663.9569	1498.877	409.6893

VDR	497.0261	92.23321	48.22126	123.395
VEGFA	1619.289	1781.139	144.6638	2067.533
VEGFB	512.0118	462.9985	695.1898	456.7392
VEGFC	5.827777	3.05408	40.18438	11.54054
VENTX	0	0	0	0.443867
VENTXP1	0	0	0	0
VENTXP7	0	0	0	0
VEPH1	9.157935	7.329791	4.018438	44.3867
VEZF1	137.369	233.9425	333.5304	213.0562
VEZT	172.3357	228.4452	68.31345	192.1944
VGf	8.325396	26.8759	48.22126	27.07589
VGLL1	45.78968	63.52486	8.036876	194.8576
VGLL2	0	0	16.07375	0.443867
VGLL3	1.665079	8.551423	156.7191	34.62163
VGLL4	34.13412	53.7518	36.16594	79.4522
VHL	360.4896	198.5152	44.20282	160.236
VHLL	0	0	12.05531	0
VIL1	109.8952	715.2655	68.31345	314.2578
VILL	4735.485	562.5615	68.31345	300.9418
VIM	2593.361	1927.735	59444.75	2743.542
VIP	0	0	0	0
VIPR1	323.8579	83.07097	16.07375	57.25885
VIPR2	4.162698	1.832448	4.018438	2.663202
VIT	0	2.443264	36.16594	2.219335
VKORC1	210.6325	714.6547	586.692	417.6789
VKORC1L1	29.97142	82.46015	84.3872	55.92724
VLDLR	108.2301	60.47078	180.8297	90.99274
VMA21	154.0198	243.7156	104.4794	122.5073
VMAC	42.45952	45.20038	4.018438	58.14658
VMO1	5.827777	8.551423	8.036876	11.09668
VMP1	603.5912	1512.991	956.3883	1025.777
VN1R1	5.827777	3.664896	0	8.87734
VN1R10P	0	0	0	0
VN1R2	0	0	0	0
VN1R4	0	0.610816	0	0
VN1R5	0	0	0	0
VNN1	1408.657	656.0163	12.05531	751.9107
VNN2	114.8905	52.53017	0	107.8597
VNN3	35.7992	2.443264	0	25.74429
VOPP1	293.0539	218.0613	4.018438	163.3431
VPRBP	50.78491	49.47609	136.6269	71.46259
VPREB1	0	0	0	0
VPREB3	4.162698	4.275712	0	0.887734
VPS11	263.915	259.5968	980.4989	347.9917
VPS13A	66.60317	94.67647	40.18438	107.4158
VPS13B	69.93332	82.46015	116.5347	83.447
VPS13C	39.9619	180.1907	60.27657	222.8212

VPS13D	236.4412	193.0178	249.1432	247.2339
VPS16	381.3031	254.7103	1076.941	237.025
VPS18	136.5365	293.1917	285.3091	466.9481
VPS25	409.6095	563.1723	1603.357	379.0624
VPS26A	182.3262	395.1979	369.6963	283.631
VPS26B	249.7619	293.1917	132.6085	228.5915
VPS28	2842.29	1190.48	1611.394	743.9211
VPS29	446.2412	401.3061	851.9089	256.999
VPS33A	101.5698	56.80588	100.461	67.46779
VPS33B	172.3357	145.3742	124.5716	159.7921
VPS35	214.7952	419.6306	727.3373	336.8951
VPS36	177.3309	194.2395	811.7245	154.9096
VPS37A	32.46904	100.1738	100.461	94.09981
VPS37B	1979.779	632.8053	28.12907	525.9824
VPS37C	299.7142	200.9584	24.11063	173.552
VPS37D	3.330158	63.52486	72.33188	41.7235
VPS39	319.6952	413.5224	120.5531	701.7538
VPS41	185.6563	348.7759	433.9913	319.5843
VPS45	272.2404	228.4452	269.2353	195.7454
VPS4A	727.6396	536.2964	433.9913	361.7516
VPS4B	65.77063	95.8981	253.1616	122.0634
VPS52	0	0	0	0
VPS53	198.1444	136.8228	542.4891	169.1133
VPS54	112.3928	127.0497	277.2722	140.7058
VPS72	278.9008	420.2414	253.1616	219.2703
VPS8	273.9055	147.8175	128.59	183.7609
VRK1	115.723	147.8175	152.7006	87.88567
VRK2	14.98571	65.96812	128.59	53.70791
VRK3	393.7912	303.5755	245.1247	213.0562
VRTN	0.83254	0	16.07375	0
VSIG1	68.26825	1104.355	12.05531	275.6414
VSIG10	182.3262	130.7146	28.12907	64.36072
VSIG10L	9.157935	57.4167	16.07375	46.60604
VSIG2	3056.253	517.3611	140.6453	1015.124
VSIG4	0	0	20.09219	0
VSIG8	33.30158	1.832448	36.16594	3.994803
VSNL1	0	0	4.018438	0
VSTM1	0	1.221632	0	0
VSTM2A	0	0.610816	0	0.443867
VSTM2B	0	0	12.05531	0
VSTM2L	6.660317	646.8541	40.18438	901.4939
VSTM4	0	1.832448	28.12907	3.107069
VSTM5	0	1.832448	0	6.214138
VSX1	0	15.2704	0	20.86175
VSX2	0	0	28.12907	0
VTA1	153.1873	133.7687	285.3091	83.89087
VTCN1	45.78968	86.12505	12.05531	256.1113

VTI1A	79.9238	52.53017	297.3644	67.91165
VTI1B	100.7373	249.8237	956.3883	229.9231
VTN	0.83254	17.10285	80.36876	86.55407
VTRNA1-1	0.83254	0	0	0
VTRNA1-2	2.497619	0	0	0.443867
VTRNA1-3	0	0.610816	0	0.443867
VTRNA2-1	3.330158	0	0	0
VWA1	1302.092	1260.113	64.29501	1332.489
VWA2	21.64603	47.64364	12.05531	42.16737
VWA3A	440.4134	1.221632	8.036876	3.107069
VWA3B	7.492856	3.05408	4.018438	2.663202
VWA5A	235.6087	30.5408	88.40564	79.89606
VWA5B1	0	0	12.05531	0.443867
VWA5B2	20.81349	0	20.09219	1.331601
VWA7	0	0	0	0
VWC2	0	0.610816	32.1475	0.443867
VWC2L	0	0.610816	12.05531	0.887734
VWCE	4.162698	2.443264	16.07375	4.882537
VWDE	0	47.03283	0	79.00833
VWF	26.64127	38.48141	622.8579	70.57486
WAC	283.0635	453.8363	590.7104	470.499
WAPAL	183.1587	137.4336	960.4067	166.4501
WARS	1280.446	384.8141	180.8297	375.0676
WARS2	73.26348	72.6871	16.07375	47.93764
WAS	4.995237	5.497344	136.6269	20.41788
WASF1	13.32063	6.10816	20.09219	11.54054
WASF2	697.6682	425.1279	409.8807	423.893
WASF3	0.83254	0.610816	0	0
WASH1	187.3214	43.36793	0	44.83057
WASH2P	161.5127	35.42733	8.036876	32.84616
WASH3P	180.6611	25.04345	28.12907	20.86175
WASH5P	0.83254	0	0	1.331601
WASH7P	13.32063	0.610816	0	2.219335
WASL	183.9912	188.7421	116.5347	174.4397
WBP1	1.665079	9.162239	0	18.19855
WBP11	167.3405	337.7812	229.051	280.524
WBP11P1	0	0	28.12907	1.331601
WBP2	934.1094	786.7309	429.9729	738.1509
WBP2NL	0.83254	3.05408	0	2.663202
WBP4	61.60793	102.0063	160.7375	53.26404
WBP5	144.8619	221.1154	494.2679	212.6123
WBSCR16	52.44999	139.266	64.29501	97.65074
WBSCR17	0	0.610816	28.12907	4.882537
WBSCR22	1054.828	1381.055	176.8113	1008.466
WBSCR27	21.64603	51.30854	0	39.94803
WBSCR28	31.6365	4.886528	0	6.658005
WDFY1	130.7087	131.3254	233.0694	140.262

WDFY2	42.45952	74.51955	24.11063	51.04471
WDFY3	49.95237	213.7856	208.9588	297.3909
WDFY3-AS	2.497619	1.221632	0	2.663202
WDFY4	16.65079	3.664896	140.6453	8.87734
WDHD1	39.12936	60.47078	16.07375	58.14658
WDPCP	12.48809	9.162239	8.036876	13.75988
WDR1	1984.774	2121.975	2234.252	1769.698
WDR11	162.3452	181.4123	160.7375	161.1237
WDR12	150.6897	245.548	385.7701	139.3742
WDR13	2151.282	360.9922	68.31345	317.3649
WDR16	4.162698	6.10816	0	5.770271
WDR17	1.665079	1.832448	12.05531	1.775468
WDR18	661.869	268.759	321.475	213.0562
WDR19	108.2301	114.8334	40.18438	121.6196
WDR20	69.93332	150.2607	192.885	149.5832
WDR24	202.3071	121.5524	273.2538	130.053
WDR25	146.527	53.7518	12.05531	49.26924
WDR26	230.6135	271.8131	900.1301	431.4387
WDR27	112.3928	63.52486	4.018438	49.71311
WDR3	117.3881	171.0285	108.4978	144.2568
WDR31	0	4.275712	12.05531	8.433473
WDR33	387.1309	330.4514	634.9132	318.2527
WDR34	2650.806	1384.109	108.4978	751.4669
WDR35	60.77539	84.90342	44.20282	83.447
WDR36	82.42142	65.96812	305.4013	74.56966
WDR37	119.8857	141.0985	40.18438	169.5572
WDR38	24.14365	0.610816	0	2.663202
WDR4	203.9722	65.35731	20.09219	44.3867
WDR41	49.11984	86.12505	52.23969	75.45739
WDR43	217.2928	155.1473	233.0694	150.9148
WDR44	16.65079	165.5311	68.31345	99.87008
WDR45	556.1364	247.9913	498.2863	269.4273
WDR45L	974.0713	1064.652	188.8666	907.2642
WDR46	0.83254	0	0	0
WDR47	33.30158	31.15161	28.12907	31.51456
WDR48	74.09602	89.17913	148.6822	86.1102
WDR49	3.330158	0	0	0.887734
WDR5	608.5864	251.0454	36.16594	183.7609
WDR52	269.7428	61.0816	12.05531	131.8285
WDR53	120.7182	64.13568	108.4978	54.59564
WDR54	308.0396	75.13036	28.12907	65.24845
WDR55	154.0198	84.2926	196.9035	106.5281
WDR59	448.7388	289.5268	60.27657	276.5292
WDR5B	150.6897	67.18975	16.07375	82.55927
WDR6	382.1357	350.6084	68.31345	497.5749
WDR60	174.0008	145.985	40.18438	148.2516
WDR61	107.3976	288.9159	731.3557	161.1237

WDR62	288.8912	161.2554	48.22126	152.2464
WDR63	10.82301	0	28.12907	0.443867
WDR64	0.83254	0	4.018438	2.663202
WDR65	24.14365	0.610816	16.07375	3.994803
WDR66	97.40713	33.59488	120.5531	31.95843
WDR67	66.60317	43.97875	20.09219	39.50416
WDR69	43.29206	0.610816	4.018438	3.994803
WDR7	11.65555	32.37325	32.1475	43.94283
WDR70	148.192	165.5311	385.7701	116.737
WDR72	154.8524	1.221632	8.036876	0
WDR73	140.6992	252.267	108.4978	258.3306
WDR74	655.2086	428.182	779.577	292.9522
WDR75	303.0444	321.9	233.0694	256.1113
WDR76	24.97619	59.85996	0	52.37631
WDR77	664.3666	285.8619	156.7191	201.5156
WDR78	26.64127	56.19507	0	36.84096
WDR81	159.0151	102.6171	241.1063	135.3794
WDR82	215.6278	170.4177	156.7191	222.8212
WDR83	186.4889	68.41139	405.8622	71.01872
WDR83OS	802.5682	398.252	675.0976	375.0676
WDR85	559.4666	174.6934	32.1475	130.053
WDR86	0	1.832448	12.05531	2.219335
WDR87	0	0	0	0
WDR88	0	1.832448	4.018438	4.43867
WDR89	61.60793	89.78995	8.036876	73.68193
WDR90	1467.767	392.1438	24.11063	575.2517
WDR91	159.0151	282.8078	851.9089	292.0645
WDR92	47.45476	72.07628	44.20282	44.3867
WDR93	12.48809	3.05408	0	7.545739
WDR96	34.13412	12.21632	4.018438	15.97921
WDSUB1	10.82301	62.91404	32.1475	36.84096
WDTC1	345.5039	194.8503	759.4848	217.051
WDYHV1	104.0674	69.63302	64.29501	39.94803
WEE1	64.10555	84.2926	56.25813	52.37631
WEE2	0.83254	0.610816	0	0.443867
WFDC1	0	0	12.05531	1.775468
WFDC10A	0	0	0	0.443867
WFDC10B	13.32063	0	0	1.331601
WFDC11	0	0	0	0
WFDC12	2.497619	0.610816	0	1.775468
WFDC13	0.83254	1.221632	0	0.443867
WFDC2	2890.577	233.3317	12.05531	1654.736
WFDC3	67.43571	31.15161	4.018438	33.73389
WFDC5	0	0	0	0
WFDC6	0	0.610816	0	0
WFDC8	0	0	0	0
WFDC9	0	0	0	0



WFIKKN1	31.6365	4.275712	16.07375	3.550936
WFIKKN2	0.83254	0	16.07375	2.663202
WFS1	593.6007	167.3636	257.18	274.3098
WHAMM	53.28253	77.57363	40.18438	71.90646
WHAMMP	0	0	0	0.887734
WHAMMP	0	2.443264	0	4.43867
WHSC1	531.9928	511.8638	92.42408	816.7153
WHSC1L1	255.5897	166.7528	401.8438	211.2807
WHSC2	369.6476	205.2342	92.42408	214.8316
WIBG	302.2119	247.9913	192.885	156.6851
WIF1	0.83254	0.610816	4.018438	2.663202
WIPF1	6.660317	13.43795	116.5347	41.27963
WIPF2	109.0627	182.0232	24.11063	174.4397
WIPF3	14.98571	2.443264	4.018438	8.433473
WIP11	163.1778	183.8556	361.6594	222.8212
WIP12	624.4047	526.5234	112.5163	515.3296
WISP1	8.325396	2.443264	8.036876	6.658005
WISP2	0	4.275712	196.9035	4.43867
WISP3	59.11031	130.7146	0	69.24325
WIZ	272.2404	128.2714	176.8113	166.4501
WLS	177.3309	384.8141	446.0466	513.5541
WNK1	149.8571	501.4799	1410.472	767.0022
WNK2	31.6365	86.12505	16.07375	151.8025
WNK3	0	1.832448	20.09219	5.326404
WNK4	11.65555	25.65427	64.29501	8.87734
WNT1	0	0	16.07375	0.443867
WNT10A	27.47381	411.69	32.1475	425.2246
WNT10B	0	3.664896	60.27657	5.770271
WNT11	4.995237	24.43264	140.6453	56.37111
WNT16	0	0.610816	8.036876	5.326404
WNT2	6.660317	10.99469	188.8666	56.37111
WNT2B	0	19.54611	44.20282	10.20894
WNT3	0	2.443264	8.036876	7.545739
WNT3A	0.83254	0	4.018438	0.887734
WNT4	57.44523	134.3795	24.11063	111.8545
WNT5A	2.497619	6.10816	44.20282	8.87734
WNT5B	7.492856	0.610816	4.018438	3.107069
WNT6	5.827777	3.664896	8.036876	7.989606
WNT7A	20.81349	10.38387	16.07375	5.326404
WNT7B	75.7611	282.197	12.05531	307.156
WNT8A	0	0	4.018438	0
WNT8B	0	0.610816	32.1475	0.443867
WNT9A	0.83254	3.05408	16.07375	18.19855
WNT9B	0	0.610816	16.07375	0.443867
WRAP53	158.1825	102.6171	140.6453	76.34513
WRAP73	326.3555	177.7474	160.7375	130.053
WRB	36.63174	95.8981	24.11063	69.68712

WRN	16.65079	56.19507	4.018438	78.56446
WRNIP1	236.4412	425.1279	462.1204	375.5115
WSB1	509.5142	1272.33	546.5076	1611.237
WSB2	278.9008	237.6074	1137.218	199.7402
WSCD1	0.83254	13.43795	8.036876	7.989606
WSCD2	0	0	20.09219	0
WT1	4.162698	0.610816	16.07375	4.882537
WT1-AS	0.83254	0	0	0.443867
WTAP	246.4317	207.0666	980.4989	217.4948
WTH3DI	0	5.497344	36.16594	4.43867
WTIP	15.81825	119.7199	249.1432	52.37631
WWC1	398.7865	642.5784	36.16594	731.049
WWC2	28.30635	115.4442	104.4794	114.9616
WWC3	122.3833	61.69241	0	83.447
WWOX	33.30158	18.32448	12.05531	20.41788
WWP1	136.5365	329.8406	642.9501	217.051
WWP2	780.0896	276.0888	968.4436	346.6601
WWTR1	149.8571	263.8725	124.5716	185.9803
WWTR1-A	19.14841	3.664896	0	6.214138
XAB2	799.238	387.8681	1004.61	304.9366
XAF1	254.7571	209.5099	32.1475	312.9262
XAGE1A	0	0	0	0
XAGE1B	0	0	0	0
XAGE1C	0	0	0	0
XAGE1D	0	0	0	0
XAGE1E	0	0	0	0
XAGE2	0	0	0	0
XAGE2B	0	0	0	0
XAGE3	0	0	0	0
XAGE5	0	0	0	0
XBP1	1367.03	1524.597	691.1713	1366.667
XCL1	2.497619	0	0	0.887734
XCL2	0	0	0	0
XCR1	0	0	0	0
XDH	159.8476	310.9053	1181.421	369.2974
XG	0	0	0	0.443867
XGPY2	0	0	0	0
XIAP	164.0103	287.0835	40.18438	173.552
XIRP1	0	0	4.018438	0.443867
XIRP2	0	1.221632	24.11063	0
XIST	0.83254	3.05408	20.09219	3.550936
XK	24.14365	15.2704	4.018438	5.326404
XKR3	0	0	0	0
XKR4	0	0	40.18438	0.443867
XKR5	0	4.886528	0	3.994803
XKR6	4.162698	15.2704	84.3872	18.64241
XKR7	0	0	16.07375	0

XKR8	38.29682	54.97344	28.12907	50.15697
XKR9	21.64603	15.2704	4.018438	19.53015
XKRX	2.497619	47.64364	28.12907	40.83577
XKRY	0	0	0	0
XKRY2	0	0	0	0
XPA	156.5174	64.74649	413.8991	58.14658
XPC	183.9912	113.001	44.20282	107.4158
XPNPEP1	827.5443	400.6953	687.1529	310.263
XPNPEP2	2.497619	0.610816	76.35032	2.219335
XPNPEP3	56.61269	106.8928	20.09219	83.00313
XPO1	270.5754	437.3442	417.9176	415.4595
XPO4	113.2254	78.18444	64.29501	86.99794
XPO5	313.8674	284.0294	229.051	284.9626
XPO6	731.8023	515.5287	799.6692	455.4076
XPO7	124.8809	280.3645	325.4935	336.4512
XPOT	169.0055	116.055	64.29501	115.4054
XPR1	76.59364	145.985	216.9957	124.7266
XRCC1	319.6952	314.5702	622.8579	233.4741
XRCC2	15.81825	7.940607	8.036876	12.87214
XRCC3	161.5127	202.7909	16.07375	235.2495
XRCC4	189.819	67.18975	48.22126	34.62163
XRCC5	1019.028	2411.501	72.33188	1344.029
XRCC6	1754.993	2026.687	116.5347	909.9274
XRCC6BP1	8.325396	21.37856	4.018438	12.87214
XRN1	54.11507	73.29791	32.1475	81.67153
XRN2	228.9484	397.0304	659.0238	382.1695
XRR1	2.497619	42.75712	0	39.50416
XXYLT1	74.09602	95.28729	24.11063	91.88047
XYLB	17.48333	20.76774	0	18.19855
XYLT1	16.65079	6.10816	48.22126	15.97921
XYLT2	226.4508	211.3423	502.3048	234.3618
YAE1D1	53.28253	78.79526	36.16594	47.93764
YAF2	35.7992	25.65427	132.6085	23.08108
YAP1	170.6706	335.9488	96.44251	324.0229
YARS	1079.804	475.8256	526.4154	385.7204
YARS2	59.11031	187.5205	96.44251	109.6352
YBEY	152.3547	97.11974	0	39.0603
YBX1	1294.599	877.7425	5987.473	678.6727
YBX2	180.6611	1.832448	76.35032	3.550936
YDJC	525.3325	491.096	24.11063	292.5084
YEATS2	374.6428	240.6615	48.22126	224.1528
YEATS4	37.46428	79.40607	341.5672	42.16737
YES1	52.44999	136.212	116.5347	173.1081
YIF1A	738.4626	781.2336	711.2635	609.4294
YIF1B	314.7	703.66	610.8026	283.631
YIPF1	294.719	227.2235	237.0878	200.184
YIPF2	515.342	404.3602	40.18438	329.3493

YIPF3	904.9705	969.3649	863.9642	960.5282
YIPF4	86.58412	204.0125	325.4935	120.288
YIPF5	83.25396	118.4983	84.3872	103.421
YIPF6	149.8571	446.5065	12.05531	242.7953
YIPF7	0	0.610816	4.018438	0
YJEFN3	218.1254	25.04345	12.05531	27.96362
YKT6	1382.848	1140.393	325.4935	1001.364
YLPM1	117.3881	233.9425	695.1898	259.2183
YME1L1	221.4555	750.082	502.3048	656.9232
YOD1	34.13412	27.48672	12.05531	60.36591
YPEL1	12.48809	18.93529	8.036876	15.53535
YPEL2	23.31111	67.80057	36.16594	80.7838
YPEL3	850.8554	339.6137	3283.064	720.3962
YPEL4	2.497619	10.99469	148.6822	10.65281
YPEL5	321.3603	282.8078	1458.693	290.7329
YRDC	110.7278	71.46547	40.18438	64.80458
YSK4	5.827777	1.221632	0	1.775468
YTHDC1	0	0	0	0
YTHDC2	49.95237	42.75712	20.09219	65.24845
YTHDF1	340.5087	273.0347	196.9035	344.8847
YTHDF2	113.2254	188.7421	369.6963	207.7298
YTHDF3	159.0151	186.2989	381.7516	228.1476
YWHAB	1530.208	1836.724	2286.491	1190.895
YWHAE	1559.347	1698.068	4355.987	1320.948
YWHAG	408.7769	581.4968	1362.25	727.9419
YWHAH	941.6023	1543.532	4339.913	875.7496
YWHAQ	246.4317	544.8478	1422.527	512.6664
YWHAZ	1416.982	2009.584	385.7701	1438.573
YY1	193.1492	263.8725	642.9501	226.3722
YY1AP1	503.6864	346.9435	4.018438	426.1123
YY2	0	4.275712	12.05531	3.994803
ZACN	0	0	0	0
ZADH2	112.3928	119.7199	743.411	85.22247
ZAK	61.60793	169.196	160.7375	148.2516
ZAN	0.83254	2.443264	20.09219	0.887734
ZAP70	17.48333	1.832448	245.1247	10.20894
ZAR1	0.83254	2.443264	0	3.550936
ZAR1L	0	0	0	0
ZBBX	95.74205	0	0	1.331601
ZBED1	0	0	0	0
ZBED2	3.330158	0.610816	8.036876	3.107069
ZBED3	19.98095	3.05408	4.018438	5.770271
ZBED4	57.44523	171.6393	32.1475	160.236
ZBED5	209.8	144.1526	4.018438	157.1289
ZBED6	2.497619	21.98937	68.31345	29.29522
ZBP1	44.1246	26.26509	0	31.95843
ZBTB1	33.30158	87.9575	140.6453	116.737

ZBTB10	3.330158	21.37856	120.5531	22.63722
ZBTB11	44.1246	25.04345	60.27657	54.15178
ZBTB12	0	0	0	0
ZBTB16	0	0	52.23969	3.107069
ZBTB17	429.5904	210.1207	642.9501	246.7901
ZBTB2	50.78491	51.30854	72.33188	59.47818
ZBTB20	7.492856	11.6055	204.9403	5.770271
ZBTB20-AS	2.497619	1.832448	0	0.443867
ZBTB22	0	0	0	0
ZBTB24	83.25396	33.59488	28.12907	27.96362
ZBTB25	24.14365	16.49203	80.36876	35.06549
ZBTB26	0.83254	9.773055	12.05531	13.31601
ZBTB3	42.45952	17.71366	60.27657	23.96882
ZBTB32	6.660317	0	4.018438	1.331601
ZBTB33	27.47381	56.80588	0	49.71311
ZBTB34	57.44523	28.70835	184.8482	55.48338
ZBTB37	8.325396	12.82714	32.1475	14.20374
ZBTB38	83.25396	104.4495	156.7191	127.8337
ZBTB39	19.14841	11.6055	48.22126	19.08628
ZBTB4	103.2349	160.6446	554.5445	298.7225
ZBTB40	223.1206	134.9903	28.12907	193.526
ZBTB41	14.15317	38.48141	44.20282	52.82018
ZBTB42	154.0198	220.5046	8.036876	160.236
ZBTB43	57.44523	18.93529	32.1475	44.3867
ZBTB44	72.43094	111.1685	76.35032	163.7869
ZBTB45	104.0674	119.1091	28.12907	63.02912
ZBTB46	26.64127	7.329791	44.20282	10.65281
ZBTB47	74.92856	40.92467	237.0878	71.01872
ZBTB48	378.8055	209.5099	164.756	175.7713
ZBTB49	36.63174	19.54611	12.05531	27.96362
ZBTB5	119.0532	147.2066	32.1475	158.0167
ZBTB6	12.48809	17.71366	12.05531	15.97921
ZBTB7A	397.9539	190.5746	140.6453	190.419
ZBTB7B	420.4325	266.9266	550.526	392.3784
ZBTB7C	88.2492	75.13036	24.11063	43.49897
ZBTB8A	9.990475	43.36793	56.25813	33.73389
ZBTB8B	0	0	8.036876	0
ZBTB8OS	176.4984	183.2448	293.346	104.7526
ZBTB9	0	0	0	0.887734
ZC2HC1A	28.30635	12.82714	60.27657	30.62682
ZC2HC1B	0	0	0	0
ZC2HC1C	4.995237	21.98937	0	18.19855
ZC3H10	16.65079	23.82182	168.7744	25.30042
ZC3H11A	277.2357	375.041	333.5304	471.3868
ZC3H12A	1136.417	254.7103	72.33188	444.7548
ZC3H12B	17.48333	3.05408	28.12907	5.770271
ZC3H12C	4.995237	38.48141	32.1475	76.34513

ZC3H12D	15.81825	1.832448	28.12907	2.219335
ZC3H13	54.94761	165.5311	112.5163	164.6747
ZC3H14	167.3405	266.3158	494.2679	237.025
ZC3H15	188.9865	384.2032	811.7245	270.7589
ZC3H18	235.6087	180.8015	160.7375	225.9283
ZC3H3	268.9103	108.7252	84.3872	147.8077
ZC3H4	181.4936	182.0232	233.0694	184.2048
ZC3H6	29.13889	31.15161	88.40564	43.49897
ZC3H7A	298.8817	232.7209	819.7614	274.7537
ZC3H7B	430.423	621.1998	221.0141	475.8254
ZC3H8	50.78491	29.31917	28.12907	34.62163
ZC3HAV1	281.3984	264.4833	52.23969	269.8711
ZC3HAV1L	26.64127	25.65427	8.036876	27.51976
ZC3HC1	133.2063	169.8068	200.9219	117.6248
ZC4H2	113.2254	0	12.05531	2.663202
ZCCHC10	64.93809	34.81651	4.018438	25.74429
ZCCHC11	10.82301	101.3954	144.6638	111.4106
ZCCHC12	0	0.610816	16.07375	2.663202
ZCCHC13	0	0	4.018438	0
ZCCHC14	228.1158	118.4983	136.6269	144.7006
ZCCHC16	0	0	0	0
ZCCHC17	210.6325	212.564	381.7516	151.3587
ZCCHC18	0	1.221632	4.018438	1.331601
ZCCHC2	42.45952	54.97344	116.5347	83.00313
ZCCHC24	41.62698	25.04345	872.0011	48.3815
ZCCHC3	187.3214	190.5746	24.11063	201.9595
ZCCHC4	23.31111	32.98406	24.11063	42.61123
ZCCHC5	0	0.610816	124.5716	3.994803
ZCCHC6	129.8762	79.40607	273.2538	146.0322
ZCCHC7	54.94761	80.62771	8.036876	61.69752
ZCCHC8	84.91904	81.84934	108.4978	93.21207
ZCCHC9	65.77063	142.3201	80.36876	125.1705
ZCRB1	300.5468	210.1207	1133.2	140.7058
ZCWPW1	63.27301	134.9903	12.05531	128.2776
ZCWPW2	1.665079	0.610816	0	0.887734
ZDBF2	0	0	4.018438	0.887734
ZDHHC1	104.9	101.3954	297.3644	125.1705
ZDHHC11	182.3262	7.329791	0	16.86695
ZDHHC12	613.5817	335.338	44.20282	264.9886
ZDHHC13	273.9055	94.67647	36.16594	99.87008
ZDHHC14	196.4793	233.3317	36.16594	217.051
ZDHHC15	0	0.610816	32.1475	3.107069
ZDHHC16	270.5754	199.7368	301.3829	201.5156
ZDHHC17	26.64127	26.8759	44.20282	56.37111
ZDHHC18	190.6516	141.0985	120.5531	168.2256
ZDHHC19	0.83254	0	8.036876	0
ZDHHC2	13.32063	59.85996	40.18438	55.92724

ZDHHC20	64.93809	80.62771	92.42408	102.0894
ZDHHC21	56.61269	78.18444	48.22126	69.24325
ZDHHC22	0	0	16.07375	0.443867
ZDHHC23	203.1397	37.25977	8.036876	44.83057
ZDHHC24	93.24443	153.3148	28.12907	96.76301
ZDHHC3	671.0269	300.5214	321.475	304.4928
ZDHHC4	155.6849	469.1067	148.6822	274.3098
ZDHHC5	522.0023	692.0545	389.7885	776.3234
ZDHHC6	318.8627	205.2342	333.5304	189.0873
ZDHHC7	619.4094	619.9782	60.27657	622.3016
ZDHHC8	439.5809	290.1376	84.3872	270.315
ZDHHC8P1	7.492856	98.95218	0	2.663202
ZDHHC9	442.0785	495.3717	184.8482	397.261
ZEB1	15.81825	25.04345	337.5488	49.26924
ZEB1-AS1	12.48809	40.31385	0	30.62682
ZEB2	52.44999	42.1463	1856.518	130.053
ZEB2-AS1	0	0.610816	0	0
ZER1	502.8539	164.9203	100.461	217.051
ZFAND1	154.8524	216.2288	92.42408	106.5281
ZFAND2A	169.0055	224.7803	12.05531	186.868
ZFAND2B	1068.148	492.9285	542.4891	332.4564
ZFAND3	209.8	288.9159	1474.767	347.9917
ZFAND4	17.48333	23.21101	20.09219	19.08628
ZFAND5	442.9111	483.1554	1426.546	498.9065
ZFAND6	88.2492	176.5258	839.8536	141.5936
ZFAT	52.44999	28.09753	16.07375	45.7183
ZFAT-AS1	0	0.610816	0	0
ZFC3H1	228.9484	123.3848	1189.458	221.4896
ZFHX2	10.82301	5.497344	76.35032	12.87214
ZFHX3	49.11984	98.95218	349.6041	74.56966
ZFHX4	10.82301	16.49203	454.0835	29.29522
ZFP1	11.65555	20.76774	28.12907	18.64241
ZFP106	81.58888	177.7474	212.9772	245.9023
ZFP112	18.31587	32.98406	16.07375	26.63202
ZFP14	21.64603	40.31385	28.12907	24.41269
ZFP161	47.45476	74.51955	56.25813	93.65594
ZFP2	1.665079	2.443264	28.12907	4.43867
ZFP28	1.665079	1.832448	32.1475	3.994803
ZFP3	14.98571	9.773055	72.33188	34.62163
ZFP30	4.162698	3.664896	12.05531	8.87734
ZFP36	611.0841	359.7706	438.0097	314.2578
ZFP36L1	292.2214	702.4383	2953.552	687.1061
ZFP36L2	891.6499	938.8241	1422.527	748.8037
ZFP37	1.665079	1.832448	4.018438	4.882537
ZFP41	117.3881	62.30323	12.05531	61.25365
ZFP42	2.497619	2.443264	16.07375	0.887734
ZFP57	0	0	0	0

ZFP62	109.0627	145.985	64.29501	125.6144
ZFP64	41.62698	91.01158	132.6085	92.76821
ZFP82	9.157935	22.60019	28.12907	15.97921
ZFP90	102.4024	83.07097	144.6638	111.4106
ZFP91	164.0103	204.6233	116.5347	183.7609
ZFP91-CNT	0	0	0	0
ZFP92	0	0	0	0.443867
ZFPL1	587.7729	373.8194	325.4935	253.4481
ZFPM1	344.6714	64.74649	60.27657	32.40229
ZFPM2	0	7.329791	44.20282	10.20894
ZFR	48.2873	173.4717	417.9176	229.4792
ZFR2	0	0	8.036876	0.443867
ZFX	65.77063	39.09222	48.22126	62.58525
ZFY	9.157935	1.221632	8.036876	1.331601
ZFYVE1	39.12936	98.34137	305.4013	126.0582
ZFYVE16	37.46428	84.2926	100.461	82.55927
ZFYVE19	214.7952	514.307	148.6822	670.6831
ZFYVE20	164.0103	84.90342	44.20282	73.23806
ZFYVE21	159.8476	334.7271	124.5716	272.5343
ZFYVE26	68.26825	149.6499	36.16594	202.8472
ZFYVE27	818.3864	168.5852	44.20282	233.9179
ZFYVE28	119.8857	37.25977	76.35032	82.55927
ZFYVE9	21.64603	14.65958	116.5347	20.41788
ZG16	0.83254	0	8.036876	0.443867
ZG16B	136.5365	1024.338	20.09219	1170.921
ZGLP1	33.30158	6.718975	0	11.09668
ZGPAT	514.5095	455.0579	96.44251	374.1799
ZHX1	39.12936	45.8112	285.3091	53.70791
ZHX1-C8Of	15.81825	7.940607	0	5.326404
ZHX2	83.25396	171.0285	48.22126	164.6747
ZHX3	124.8809	64.13568	136.6269	83.00313
ZIC1	1.665079	0.610816	164.756	2.663202
ZIC2	8.325396	0	48.22126	0
ZIC3	0	0.610816	0	0.887734
ZIC4	0.83254	0	28.12907	0.443867
ZIC5	1.665079	0.610816	32.1475	0.887734
ZIK1	0	0.610816	0	0.443867
ZIM2	0	1.221632	0	0
ZIM3	0	0	0	0.443867
ZKSCAN1	63.27301	263.8725	32.1475	422.1175
ZKSCAN2	5.827777	24.43264	4.018438	30.62682
ZKSCAN3	4.162698	31.15161	20.09219	31.51456
ZKSCAN4	0.83254	34.81651	28.12907	33.29003
ZKSCAN5	45.78968	194.2395	16.07375	249.4533
ZMAT1	9.157935	5.497344	20.09219	47.93764
ZMAT2	569.4571	453.8363	1535.043	338.6705
ZMAT3	56.61269	34.20569	64.29501	24.85655



ZMAT4	0	0	0	0
ZMAT5	48.2873	127.0497	570.6182	79.4522
ZMIZ1	139.0341	247.9913	803.6876	280.0801
ZMIZ2	1051.497	814.8285	405.8622	1014.68
ZMPSTE24	95.74205	204.6233	104.4794	192.6383
ZMYM1	21.64603	14.04877	12.05531	17.31081
ZMYM2	388.796	253.4886	417.9176	359.0884
ZMYM3	174.8333	335.9488	261.1985	331.5687
ZMYM4	84.91904	180.8015	212.9772	228.1476
ZMYM5	23.31111	21.98937	16.07375	28.40749
ZMYM6	55.78015	48.25446	52.23969	79.89606
ZMYM6NB	46.62222	260.8184	8.036876	193.0822
ZMYND10	278.9008	19.54611	0	16.42308
ZMYND11	153.1873	201.5693	711.2635	208.1736
ZMYND12	7.492856	25.65427	0	13.31601
ZMYND15	164.8428	62.30323	140.6453	135.8233
ZMYND19	436.2507	171.6393	184.8482	176.2152
ZMYND8	520.3372	290.7484	273.2538	313.3701
ZNF10	32.46904	23.21101	4.018438	53.26404
ZNF100	7.492856	1.832448	0	8.433473
ZNF101	19.98095	10.99469	4.018438	9.321207
ZNF107	17.48333	14.04877	4.018438	28.85136
ZNF114	0	1.221632	0	2.663202
ZNF117	22.47857	19.54611	8.036876	156.6851
ZNF12	34.96666	103.8387	12.05531	115.4054
ZNF121	8.325396	9.773055	4.018438	11.54054
ZNF124	9.990475	12.21632	20.09219	15.97921
ZNF131	38.29682	82.46015	60.27657	116.737
ZNF132	9.157935	15.2704	0	9.765074
ZNF133	170.6706	235.1641	8.036876	204.6227
ZNF134	6.660317	39.09222	0	33.29003
ZNF135	0	0	8.036876	0.443867
ZNF136	11.65555	7.329791	4.018438	15.09148
ZNF137P	57.44523	14.65958	0	28.40749
ZNF138	18.31587	38.48141	0	25.30042
ZNF14	17.48333	18.32448	40.18438	11.54054
ZNF140	49.95237	28.09753	4.018438	38.17256
ZNF141	3.330158	2.443264	0	1.331601
ZNF142	114.0579	87.34668	148.6822	168.2256
ZNF143	44.1246	37.25977	80.36876	43.49897
ZNF146	91.57935	373.2085	140.6453	271.6466
ZNF148	99.90475	72.6871	325.4935	94.09981
ZNF154	4.995237	5.497344	0	2.663202
ZNF155	71.5984	68.41139	12.05531	59.92205
ZNF157	0	0.610816	20.09219	2.219335
ZNF16	89.91427	37.25977	0	40.3919
ZNF160	127.3786	129.493	28.12907	134.9356

ZNF165	16.65079	43.97875	0	45.27444
ZNF167	3.330158	11.6055	8.036876	23.96882
ZNF169	17.48333	6.718975	8.036876	10.65281
ZNF17	9.157935	29.31917	0	18.64241
ZNF174	39.12936	46.42201	0	52.37631
ZNF175	9.990475	24.43264	16.07375	28.85136
ZNF177	0	0	0	0
ZNF18	64.10555	57.4167	48.22126	48.82537
ZNF180	21.64603	46.42201	8.036876	24.41269
ZNF181	9.157935	31.76243	12.05531	13.75988
ZNF182	37.46428	39.70304	16.07375	56.37111
ZNF184	10.82301	26.8759	16.07375	26.18815
ZNF185	64.10555	355.4949	12.05531	232.1425
ZNF187	14.98571	43.97875	8.036876	36.3971
ZNF189	106.5651	236.9966	40.18438	368.4096
ZNF19	19.14841	27.48672	16.07375	20.86175
ZNF192	1.665079	11.6055	28.12907	30.18296
ZNF193	19.98095	67.18975	0	73.68193
ZNF195	201.4746	106.282	4.018438	152.2464
ZNF197	33.30158	48.86528	0	29.73909
ZNF2	25.80873	22.60019	0	26.18815
ZNF20	0	0	0	0
ZNF200	29.97142	28.70835	0	45.27444
ZNF202	134.0389	106.282	0	83.447
ZNF204P	9.157935	6.10816	0	22.63722
ZNF205	243.9341	182.634	132.6085	132.2724
ZNF207	439.5809	516.7503	1297.955	565.4866
ZNF208	0	0	0	0
ZNF211	94.07697	92.84402	12.05531	117.6248
ZNF212	162.3452	133.7687	56.25813	124.2828
ZNF213	74.09602	54.97344	28.12907	56.81498
ZNF214	17.48333	11.6055	0	4.882537
ZNF215	22.47857	6.10816	0	12.42828
ZNF217	52.44999	147.8175	36.16594	191.3067
ZNF219	326.3555	314.5702	767.5217	312.4824
ZNF22	27.47381	137.4336	20.09219	68.35552
ZNF221	0	4.886528	8.036876	6.658005
ZNF222	11.65555	32.37325	0	30.62682
ZNF223	29.13889	104.4495	0	69.24325
ZNF224	0.83254	15.2704	0	10.20894
ZNF225	6.660317	27.48672	0	19.97402
ZNF226	107.3976	257.1535	48.22126	147.3639
ZNF227	47.45476	106.282	8.036876	54.15178
ZNF229	0.83254	0.610816	0	3.550936
ZNF23	66.60317	58.63833	44.20282	69.24325
ZNF230	24.97619	37.87059	0	27.51976
ZNF232	19.14841	51.30854	4.018438	49.71311

ZNF233	20.81349	30.5408	12.05531	16.42308
ZNF234	30.80396	50.08691	0	43.94283
ZNF235	8.325396	20.76774	48.22126	19.53015
ZNF236	7.492856	33.59488	40.18438	48.82537
ZNF238	145.6944	148.4283	225.0325	220.158
ZNF239	13.32063	92.23321	20.09219	87.88567
ZNF24	188.9865	127.0497	92.42408	169.1133
ZNF248	63.27301	63.52486	16.07375	69.68712
ZNF25	18.31587	21.98937	8.036876	27.07589
ZNF250	76.59364	31.15161	32.1475	42.16737
ZNF251	124.8809	116.6658	24.11063	138.0426
ZNF252	79.9238	87.34668	0	91.43661
ZNF253	9.990475	1.221632	8.036876	0.887734
ZNF254	16.65079	9.773055	0	17.75468
ZNF256	11.65555	7.329791	0	9.321207
ZNF257	2.497619	0	0	0
ZNF259	252.2595	353.6624	233.0694	270.315
ZNF26	0	0	0	0
ZNF260	34.96666	67.80057	40.18438	73.23806
ZNF263	471.2174	264.4833	108.4978	259.2183
ZNF264	53.28253	98.34137	28.12907	75.45739
ZNF266	445.4087	381.76	12.05531	417.6789
ZNF267	60.77539	76.35199	32.1475	39.50416
ZNF268	25.80873	58.02752	0	43.0551
ZNF271	76.59364	105.0603	36.16594	68.35552
ZNF273	1.665079	6.718975	24.11063	6.658005
ZNF274	226.4508	294.4133	24.11063	265.8763
ZNF275	42.45952	98.95218	160.7375	86.1102
ZNF276	333.0158	109.9469	20.09219	135.8233
ZNF277	35.7992	105.6712	281.2907	50.15697
ZNF28	29.13889	81.23852	0	49.26924
ZNF280A	0	0	0	0.443867
ZNF280B	3.330158	0.610816	4.018438	2.663202
ZNF280C	0	10.99469	4.018438	13.75988
ZNF280D	38.29682	57.4167	32.1475	92.32434
ZNF281	18.31587	24.43264	176.8113	67.02392
ZNF282	288.8912	264.4833	68.31345	233.9179
ZNF283	9.990475	23.21101	0	16.86695
ZNF284	0.83254	9.773055	0	7.989606
ZNF285	8.325396	31.15161	0	18.64241
ZNF286A	1.665079	11.6055	64.29501	15.09148
ZNF286B	0	0	0	1.331601
ZNF287	8.325396	3.05408	0	14.20374
ZNF292	64.10555	40.31385	112.5163	109.6352
ZNF295	21.64603	21.98937	84.3872	48.82537
ZNF295-AS	0	0	0	0
ZNF296	35.7992	51.30854	0	34.17776

ZNF3	139.8666	463.6093	40.18438	513.1103
ZNF30	15.81825	31.76243	4.018438	22.63722
ZNF300	118.2206	21.37856	12.05531	38.61643
ZNF300P1	0	4.275712	0	5.770271
ZNF302	33.30158	127.6605	8.036876	87.4418
ZNF304	11.65555	15.88121	0	54.15178
ZNF311	0	0	0	0
ZNF317	114.0579	74.51955	12.05531	120.7318
ZNF318	18.31587	60.47078	32.1475	78.56446
ZNF319	25.80873	42.1463	16.07375	82.55927
ZNF32	109.8952	271.8131	562.5813	249.8971
ZNF32-AS3	0	0	0	0.443867
ZNF320	146.527	62.30323	24.11063	146.92
ZNF321P	0	1.221632	0	0.443867
ZNF322	3.330158	4.886528	0	7.101872
ZNF323	4.995237	17.10285	0	19.97402
ZNF324	66.60317	66.57894	8.036876	51.48857
ZNF324B	29.97142	42.1463	4.018438	21.30562
ZNF326	112.3928	105.0603	112.5163	139.8181
ZNF329	43.29206	76.96281	8.036876	74.56966
ZNF330	203.9722	272.4239	377.7332	178.8784
ZNF331	54.94761	17.10285	4.018438	19.97402
ZNF333	18.31587	12.21632	0	15.97921
ZNF334	0	68.41139	12.05531	92.76821
ZNF335	406.2793	197.9044	498.2863	252.5603
ZNF337	228.9484	192.407	4.018438	292.0645
ZNF33A	173.1682	190.5746	8.036876	248.1217
ZNF33B	159.8476	180.1907	8.036876	167.7817
ZNF34	29.97142	39.09222	4.018438	27.96362
ZNF341	83.25396	147.8175	24.11063	118.0686
ZNF343	67.43571	66.57894	8.036876	48.82537
ZNF345	0	0	4.018438	0.887734
ZNF346	54.11507	64.13568	4.018438	66.58005
ZNF347	2.497619	2.443264	0	4.43867
ZNF35	54.11507	21.37856	96.44251	31.95843
ZNF350	31.6365	56.80588	0	38.17256
ZNF354A	31.6365	38.48141	4.018438	44.3867
ZNF354B	5.827777	12.21632	4.018438	17.75468
ZNF354C	0	0	8.036876	0.887734
ZNF358	576.1174	317.6243	200.9219	277.4169
ZNF362	78.25872	111.1685	397.8254	174.4397
ZNF365	0	0	24.11063	0.887734
ZNF366	0	0.610816	20.09219	1.331601
ZNF367	27.47381	18.93529	28.12907	19.97402
ZNF37A	38.29682	43.97875	8.036876	59.47818
ZNF37BP	99.90475	67.80057	0	97.20688
ZNF382	1.665079	4.275712	4.018438	7.989606

ZNF383	24.97619	26.8759	36.16594	20.41788
ZNF384	650.2134	593.1023	345.5857	657.3671
ZNF385A	190.6516	87.9575	2165.938	177.5468
ZNF385B	0	1.221632	4.018438	2.219335
ZNF385C	2.497619	9.773055	8.036876	19.08628
ZNF385D	0	0.610816	0	3.107069
ZNF391	2.497619	0	4.018438	2.663202
ZNF394	157.35	139.266	36.16594	125.1705
ZNF395	207.3024	298.689	12.05531	257.8867
ZNF396	3.330158	10.99469	0	7.989606
ZNF397	18.31587	47.64364	32.1475	28.85136
ZNF398	67.43571	95.8981	36.16594	72.79419
ZNF404	10.82301	9.773055	0	9.765074
ZNF407	24.14365	24.43264	44.20282	19.97402
ZNF408	185.6563	59.24915	24.11063	59.03431
ZNF41	38.29682	11.6055	16.07375	29.29522
ZNF410	159.0151	335.9488	345.5857	258.7745
ZNF414	238.1063	62.91404	353.6225	60.36591
ZNF415	9.157935	0.610816	0	0.443867
ZNF416	25.80873	36.64896	0	36.84096
ZNF417	11.65555	14.65958	0	19.53015
ZNF418	0	0	0	2.663202
ZNF419	119.8857	84.90342	0	91.43661
ZNF420	4.995237	1.832448	32.1475	8.87734
ZNF423	3.330158	10.99469	269.2353	23.08108
ZNF425	0.83254	20.15693	0	26.63202
ZNF426	2.497619	7.329791	24.11063	13.75988
ZNF428	278.0682	347.5543	24.11063	191.3067
ZNF429	7.492856	0.610816	0	0.443867
ZNF43	14.15317	0.610816	24.11063	0.443867
ZNF430	4.162698	6.10816	0	3.994803
ZNF431	11.65555	10.38387	0	23.52495
ZNF432	7.492856	26.8759	0	95.43141
ZNF433	20.81349	2.443264	20.09219	4.882537
ZNF434	79.9238	83.07097	4.018438	64.80458
ZNF436	21.64603	48.25446	20.09219	79.4522
ZNF438	149.0246	78.79526	28.12907	59.92205
ZNF439	18.31587	0.610816	0	7.101872
ZNF44	46.62222	19.54611	16.07375	38.17256
ZNF440	203.1397	39.09222	8.036876	49.71311
ZNF441	5.827777	7.329791	4.018438	8.433473
ZNF442	2.497619	0.610816	4.018438	2.219335
ZNF443	10.82301	8.551423	0	13.31601
ZNF444	600.261	624.8647	112.5163	350.2111
ZNF445	62.44047	45.8112	24.11063	63.02912
ZNF446	176.4984	187.5205	4.018438	114.5177
ZNF449	9.990475	42.1463	44.20282	40.3919

ZNF45	31.6365	89.17913	12.05531	53.26404
ZNF451	101.5698	91.01158	112.5163	99.42621
ZNF454	0	0.610816	4.018438	1.775468
ZNF460	0.83254	21.98937	0	5.770271
ZNF461	5.827777	26.8759	0	15.97921
ZNF462	41.62698	64.74649	80.36876	78.1206
ZNF467	7.492856	10.38387	156.7191	71.01872
ZNF468	37.46428	75.13036	0	62.14138
ZNF469	4.995237	1.221632	8.036876	2.663202
ZNF470	7.492856	15.88121	24.11063	9.765074
ZNF471	0	0.610816	0	0.443867
ZNF473	87.41666	81.84934	4.018438	79.00833
ZNF474	8.325396	0.610816	0	3.107069
ZNF479	0	0	8.036876	0
ZNF48	82.42142	75.74118	12.05531	80.7838
ZNF480	120.7182	154.5364	24.11063	83.447
ZNF483	4.995237	3.05408	0	2.663202
ZNF484	4.995237	9.773055	4.018438	7.545739
ZNF485	46.62222	40.92467	0	29.73909
ZNF486	10.82301	0	0	0
ZNF487P	24.97619	18.32448	0	7.101872
ZNF488	54.94761	26.26509	0	13.75988
ZNF490	23.31111	28.70835	12.05531	36.84096
ZNF491	3.330158	0	8.036876	3.107069
ZNF492	0	0	0	0
ZNF493	10.82301	0	0	7.101872
ZNF496	36.63174	54.36262	52.23969	42.61123
ZNF497	27.47381	37.87059	4.018438	30.18296
ZNF498	35.7992	147.8175	92.42408	176.6591
ZNF500	39.12936	64.74649	4.018438	62.58525
ZNF501	0	9.773055	8.036876	5.326404
ZNF502	11.65555	33.59488	4.018438	58.14658
ZNF503	13.32063	48.25446	349.6041	66.58005
ZNF503-AS	0	3.05408	4.018438	0.443867
ZNF503-AS	0	4.275712	28.12907	7.989606
ZNF506	23.31111	3.05408	0	4.43867
ZNF507	71.5984	112.3901	24.11063	69.68712
ZNF510	16.65079	17.71366	0	37.7287
ZNF511	243.9341	247.9913	24.11063	198.8524
ZNF512	139.0341	171.6393	56.25813	207.2859
ZNF512B	77.42618	243.1047	28.12907	469.1674
ZNF513	394.6238	249.2129	526.4154	286.2942
ZNF514	42.45952	65.96812	4.018438	76.34513
ZNF516	56.61269	65.35731	36.16594	70.13099
ZNF517	24.14365	45.20038	0	37.7287
ZNF518A	119.0532	63.52486	76.35032	89.21727
ZNF518B	1.665079	19.54611	4.018438	49.26924

ZNF519	6.660317	9.162239	0	26.18815
ZNF521	12.48809	20.76774	329.5119	26.63202
ZNF524	664.3666	433.6793	100.461	143.369
ZNF525	71.5984	63.52486	4.018438	51.48857
ZNF526	51.61745	108.1144	20.09219	70.57486
ZNF527	14.98571	12.82714	32.1475	12.87214
ZNF528	30.80396	40.92467	0	77.23286
ZNF529	49.11984	50.69772	4.018438	44.83057
ZNF530	39.9619	27.48672	8.036876	30.18296
ZNF532	14.98571	59.85996	24.11063	118.0686
ZNF534	0.83254	0	0	0
ZNF536	0	0.610816	32.1475	0.443867
ZNF540	1.665079	0	8.036876	0.887734
ZNF541	2.497619	0	4.018438	0.443867
ZNF542	23.31111	0	0	0.443867
ZNF543	4.995237	12.21632	8.036876	7.545739
ZNF544	218.1254	294.4133	4.018438	221.4896
ZNF546	0.83254	3.05408	0	10.65281
ZNF547	15.81825	11.6055	0	40.83577
ZNF548	20.81349	18.93529	0	47.49377
ZNF549	29.97142	0.610816	0	2.219335
ZNF550	2.497619	7.940607	12.05531	11.98441
ZNF551	3.330158	13.43795	0	14.64761
ZNF552	65.77063	127.0497	4.018438	63.02912
ZNF554	38.29682	13.43795	0	21.74948
ZNF555	7.492856	12.21632	4.018438	15.53535
ZNF556	0.83254	0	4.018438	0
ZNF557	34.96666	36.03814	0	22.19335
ZNF558	41.62698	97.11974	0	135.8233
ZNF559	60.77539	17.10285	4.018438	19.97402
ZNF559-ZN	0	0	0	0.443867
ZNF560	0	0.610816	32.1475	0.887734
ZNF561	43.29206	52.53017	0	81.22766
ZNF562	42.45952	73.29791	0	57.25885
ZNF563	10.82301	4.886528	0	6.214138
ZNF564	59.94285	53.14099	28.12907	51.48857
ZNF565	14.15317	38.48141	0	25.30042
ZNF566	14.15317	21.37856	48.22126	22.19335
ZNF567	11.65555	23.82182	8.036876	18.19855
ZNF568	1.665079	1.832448	16.07375	3.107069
ZNF569	0	0	28.12907	0.443867
ZNF57	35.7992	11.6055	0	18.19855
ZNF570	0.83254	1.832448	12.05531	0.887734
ZNF571	5.827777	4.275712	4.018438	2.663202
ZNF572	10.82301	16.49203	16.07375	18.19855
ZNF573	3.330158	5.497344	20.09219	3.994803
ZNF574	159.8476	156.3689	297.3644	114.5177

ZNF575	7.492856	12.82714	36.16594	8.433473
ZNF576	109.8952	196.0719	0	103.421
ZNF577	46.62222	18.32448	0	15.97921
ZNF578	0	1.221632	4.018438	0.887734
ZNF579	283.0635	340.2245	241.1063	242.3514
ZNF580	206.4698	291.97	112.5163	136.2672
ZNF581	158.1825	269.9807	0	98.09461
ZNF582	9.157935	0	20.09219	0.887734
ZNF583	5.827777	2.443264	12.05531	2.219335
ZNF584	77.42618	62.91404	0	30.62682
ZNF585A	30.80396	55.58425	8.036876	15.97921
ZNF585B	34.96666	62.91404	0	50.15697
ZNF586	13.32063	40.92467	0	22.19335
ZNF587	115.723	131.9362	8.036876	151.3587
ZNF587B	74.09602	113.001	0	66.13619
ZNF589	108.2301	54.97344	0	60.36591
ZNF592	98.23967	166.7528	116.5347	245.9023
ZNF593	1253.805	554.0101	180.8297	306.2682
ZNF594	16.65079	22.60019	0	36.3971
ZNF595	31.6365	16.49203	0	19.53015
ZNF596	14.98571	7.329791	4.018438	16.86695
ZNF597	4.162698	7.329791	0	4.43867
ZNF598	898.3102	329.8406	112.5163	346.2163
ZNF599	19.98095	20.76774	0	10.65281
ZNF600	89.91427	130.7146	4.018438	67.02392
ZNF605	18.31587	22.60019	8.036876	54.59564
ZNF606	24.97619	48.25446	48.22126	53.26404
ZNF607	84.91904	49.47609	233.0694	47.49377
ZNF608	46.62222	67.80057	184.8482	93.21207
ZNF609	59.94285	123.9956	180.8297	222.8212
ZNF610	1.665079	0	4.018438	0.887734
ZNF611	9.990475	8.551423	0	10.65281
ZNF613	19.98095	44.58956	24.11063	37.28483
ZNF614	0.83254	18.93529	8.036876	25.30042
ZNF615	8.325396	11.6055	8.036876	16.42308
ZNF616	4.995237	14.65958	16.07375	20.41788
ZNF618	44.1246	63.52486	28.12907	93.21207
ZNF619	10.82301	16.49203	4.018438	12.87214
ZNF620	7.492856	10.99469	0	11.98441
ZNF621	74.09602	69.63302	0	75.01353
ZNF622	285.5611	340.2245	888.0748	205.5104
ZNF623	29.13889	44.58956	16.07375	61.25365
ZNF624	1.665079	11.6055	16.07375	9.321207
ZNF625	9.990475	4.886528	40.18438	4.882537
ZNF625-ZN	2.497619	0	0	0
ZNF626	2.497619	0	4.018438	0
ZNF627	23.31111	33.59488	16.07375	38.17256



ZNF628	115.723	47.64364	56.25813	27.51976
ZNF629	285.5611	251.0454	68.31345	285.8504
ZNF630	19.98095	14.65958	0	20.86175
ZNF638	437.0833	453.8363	490.2494	465.1726
ZNF639	72.43094	40.92467	245.1247	46.60604
ZNF641	59.94285	49.47609	8.036876	47.93764
ZNF642	8.325396	27.48672	24.11063	11.54054
ZNF643	0	6.10816	0	7.545739
ZNF644	50.78491	62.91404	180.8297	67.46779
ZNF645	0	0	0	0
ZNF646	97.40713	73.29791	152.7006	138.0426
ZNF648	0	0.610816	8.036876	0
ZNF649	9.990475	5.497344	0	6.658005
ZNF652	121.5508	193.6287	221.0141	199.7402
ZNF653	130.7087	47.03283	204.9403	55.48338
ZNF654	9.990475	12.82714	12.05531	31.51456
ZNF655	4.162698	1147.723	184.8482	1206.874
ZNF658	0.83254	4.886528	0	2.663202
ZNF658B	0	0	0	0
ZNF660	0	0	0	1.331601
ZNF662	30.80396	63.52486	0	39.94803
ZNF663	0	0.610816	0	3.107069
ZNF664	296.3841	230.2776	249.1432	286.2942
ZNF664-FA	0	0	0	0
ZNF665	4.995237	0	4.018438	1.331601
ZNF667	0	0	28.12907	0.443867
ZNF668	106.5651	81.84934	92.42408	81.67153
ZNF669	12.48809	13.43795	0	13.31601
ZNF670	16.65079	7.940607	16.07375	11.54054
ZNF670-ZN	0	0	0	0
ZNF671	9.157935	17.71366	0	18.64241
ZNF672	214.7952	207.0666	16.07375	201.9595
ZNF673	42.45952	16.49203	0	23.08108
ZNF674	4.995237	3.664896	16.07375	5.770271
ZNF675	18.31587	12.82714	0	7.101872
ZNF676	0	0	0	0
ZNF677	2.497619	0.610816	12.05531	1.775468
ZNF678	22.47857	26.8759	8.036876	35.95323
ZNF679	0.83254	0	0	0
ZNF680	13.32063	16.49203	0	21.74948
ZNF681	7.492856	0	24.11063	0.887734
ZNF682	33.30158	0	12.05531	0.887734
ZNF683	0	0.610816	4.018438	0
ZNF684	6.660317	9.773055	0	13.75988
ZNF687	116.5555	163.6987	92.42408	208.6175
ZNF688	119.0532	215.618	136.6269	162.8992
ZNF689	3.330158	10.38387	56.25813	23.52495

ZNF69	77.42618	45.8112	0	44.3867
ZNF691	99.07221	82.46015	16.07375	78.56446
ZNF692	953.2578	605.3186	225.0325	594.3379
ZNF695	8.325396	0.610816	4.018438	0.443867
ZNF696	82.42142	57.4167	0	53.70791
ZNF697	12.48809	1.832448	32.1475	9.321207
ZNF699	0	0	20.09219	2.219335
ZNF7	203.1397	149.0391	12.05531	157.1289
ZNF70	5.827777	11.6055	0	12.42828
ZNF700	294.719	61.69241	12.05531	85.66633
ZNF701	27.47381	23.82182	0	35.50936
ZNF702P	14.15317	6.10816	0	12.42828
ZNF703	68.26825	13.43795	144.6638	40.83577
ZNF704	104.0674	133.7687	160.7375	149.5832
ZNF705A	0	0	0	0
ZNF705D	0	0	0	0
ZNF705G	0	0	4.018438	0
ZNF706	297.2166	412.3008	602.7657	273.4221
ZNF707	189.819	100.1738	36.16594	117.6248
ZNF708	18.31587	9.162239	0	9.765074
ZNF709	7.492856	3.664896	32.1475	6.658005
ZNF71	21.64603	21.98937	16.07375	12.87214
ZNF710	178.996	163.0879	257.18	295.6154
ZNF711	45.78968	18.93529	12.05531	22.63722
ZNF713	4.162698	10.99469	24.11063	11.98441
ZNF714	25.80873	6.718975	8.036876	17.31081
ZNF716	0.83254	0.610816	0	0
ZNF717	1.665079	6.718975	12.05531	6.658005
ZNF718	0	1.832448	4.018438	0
ZNF720	21.64603	29.31917	4.018438	34.62163
ZNF721	75.7611	48.86528	16.07375	64.80458
ZNF724P	0	1.221632	0	0
ZNF726	2.497619	0	16.07375	0
ZNF727	0	0	0	0.443867
ZNF729	0	0	0	0.887734
ZNF732	0	0	4.018438	0.443867
ZNF735	0	0.610816	4.018438	0
ZNF736	4.162698	0.610816	0	0
ZNF737	12.48809	0	0	0
ZNF738	52.44999	6.718975	4.018438	18.64241
ZNF74	23.31111	101.3954	8.036876	44.83057
ZNF740	169.8381	105.6712	112.5163	106.972
ZNF746	71.5984	88.56831	84.3872	106.5281
ZNF747	54.94761	50.08691	8.036876	40.3919
ZNF749	9.157935	14.04877	12.05531	10.65281
ZNF750	2.497619	1.832448	4.018438	0.443867
ZNF75A	20.81349	72.07628	8.036876	89.21727

ZNF75D	60.77539	95.28729	8.036876	100.7578
ZNF76	190.6516	236.9966	200.9219	311.1508
ZNF761	64.10555	70.24383	0	75.90126
ZNF763	20.81349	3.05408	4.018438	7.989606
ZNF764	39.12936	42.75712	4.018438	43.49897
ZNF765	8.325396	26.8759	0	15.53535
ZNF766	81.58888	143.5417	20.09219	75.45739
ZNF767	120.7182	113.6118	4.018438	105.6404
ZNF768	396.2888	367.1004	148.6822	318.2527
ZNF77	18.31587	16.49203	28.12907	16.42308
ZNF770	155.6849	91.01158	4.018438	112.2984
ZNF771	117.3881	86.12505	936.2961	90.105
ZNF772	9.990475	26.8759	0	31.07069
ZNF773	14.15317	35.42733	0	14.64761
ZNF774	6.660317	8.551423	0	13.31601
ZNF775	61.60793	61.0816	36.16594	45.27444
ZNF776	29.13889	58.02752	4.018438	89.21727
ZNF777	83.25396	122.1632	522.3969	114.9616
ZNF778	20.81349	19.54611	4.018438	23.96882
ZNF780A	79.09126	94.06566	0	63.02912
ZNF780B	29.13889	51.30854	20.09219	44.83057
ZNF781	0	0	4.018438	2.219335
ZNF782	4.162698	6.718975	4.018438	3.550936
ZNF783	302.2119	140.4877	20.09219	106.972
ZNF784	246.4317	124.6065	20.09219	52.37631
ZNF785	50.78491	34.81651	0	41.7235
ZNF786	9.157935	47.64364	0	42.61123
ZNF787	416.2698	458.112	208.9588	236.5811
ZNF788	1.665079	0	0	0
ZNF789	146.527	88.56831	4.018438	115.4054
ZNF79	28.30635	13.43795	16.07375	31.51456
ZNF790	12.48809	0	0	0
ZNF791	2.497619	6.718975	8.036876	14.20374
ZNF792	24.97619	28.70835	4.018438	25.74429
ZNF793	13.32063	0	0	0.887734
ZNF799	14.15317	14.04877	0	19.53015
ZNF8	8.325396	54.36262	4.018438	51.48857
ZNF80	0	0.610816	4.018438	0
ZNF800	16.65079	29.31917	60.27657	31.51456
ZNF804A	0	0.610816	16.07375	0.887734
ZNF804B	0	0	0	0.443867
ZNF805	39.9619	59.24915	4.018438	33.29003
ZNF808	5.827777	10.38387	4.018438	7.989606
ZNF81	11.65555	5.497344	4.018438	20.86175
ZNF812	0	0	0	0.443867
ZNF813	13.32063	1.832448	4.018438	2.219335
ZNF814	76.59364	69.63302	12.05531	67.91165

ZNF815	5.827777	7.940607	0	7.989606
ZNF816	17.48333	43.36793	8.036876	33.73389
ZNF816-ZN	0	0	0	0
ZNF821	78.25872	59.85996	321.475	67.02392
ZNF823	46.62222	33.59488	24.11063	23.52495
ZNF826P	3.330158	0	0	0
ZNF827	25.80873	25.04345	140.6453	64.36072
ZNF829	0	0.610816	12.05531	0
ZNF83	149.0246	65.96812	0	139.8181
ZNF830	62.44047	138.0444	112.5163	135.3794
ZNF831	0	0.610816	4.018438	0
ZNF833P	1.665079	1.221632	0	0.887734
ZNF835	0.83254	0	4.018438	0
ZNF836	37.46428	26.26509	36.16594	25.30042
ZNF837	67.43571	67.18975	16.07375	66.13619
ZNF839	147.3595	191.1854	0	234.8057
ZNF84	0	0	0	0
ZNF841	56.61269	43.97875	8.036876	58.14658
ZNF843	0	0	0	0.887734
ZNF844	7.492856	2.443264	4.018438	0.887734
ZNF845	6.660317	35.42733	4.018438	19.97402
ZNF846	13.32063	40.31385	4.018438	22.63722
ZNF847P	0	0	0	0
ZNF85	7.492856	0	0	0
ZNF850	11.65555	4.886528	8.036876	6.658005
ZNF853	0	1.832448	0	3.107069
ZNF860	5.827777	20.15693	0	9.765074
ZNF862	89.08173	156.3689	16.07375	242.3514
ZNF865	279.7333	341.4461	188.8666	225.9283
ZNF876P	0.83254	3.664896	0	3.994803
ZNF878	0.83254	1.221632	24.11063	1.331601
ZNF879	1.665079	0	12.05531	0.443867
ZNF880	33.30158	10.38387	32.1475	23.52495
ZNF883	12.48809	0.610816	20.09219	1.331601
ZNF890P	0	0	0	0
ZNF90	5.827777	0	4.018438	0
ZNF91	9.990475	13.43795	0	16.42308
ZNF92	0.83254	7.329791	8.036876	16.42308
ZNF93	4.995237	0.610816	0	0
ZNF98	0	0	0	0.443867
ZNF99	0	0	0	0
ZNFX1	442.9111	317.6243	212.9772	551.2828
ZNFX1-AS1	1536.868	1113.517	20.09219	745.6966
ZNHIT1	1086.464	2047.455	984.5173	1384.421
ZNHIT2	410.442	268.1482	192.885	178.4345
ZNHIT3	215.6278	243.7156	64.29501	122.9512
ZNHIT6	79.09126	86.12505	225.0325	104.7526

ZNRD1	0	10.38387	4.018438	7.989606
ZNRD1-AS1	0	0	0	1.331601
ZNRF1	334.6809	120.3307	735.3742	164.6747
ZNRF2	60.77539	114.2226	108.4978	104.3087
ZNRF2P1	3.330158	12.82714	0	7.545739
ZNRF2P2	0	0	0	0
ZNRF3	25.80873	61.69241	28.12907	56.81498
ZNRF4	0	0	0	0
ZP1	1.665079	0.610816	0	0
ZP2	0	0	0	0
ZP3	85.75158	62.30323	4.018438	52.82018
ZP4	0	0.610816	0	0
ZPBP	0	0	4.018438	0.443867
ZPBP2	0	0	4.018438	0
ZPLD1	0	0.610816	4.018438	0.887734
ZRANB1	109.0627	118.4983	892.0932	141.1497
ZRANB2	144.8619	151.4824	277.2722	204.1788
ZRANB2-A1	0	0	0	3.107069
ZRANB2-A2	0	3.05408	0	0
ZRANB3	5.827777	15.2704	16.07375	10.65281
ZRSR2	106.5651	43.36793	56.25813	50.60084
ZSCAN1	0	0	0	0
ZSCAN10	0	0	16.07375	0
ZSCAN12	12.48809	25.04345	12.05531	16.86695
ZSCAN12P1	0	5.497344	0	14.64761
ZSCAN16	27.47381	72.07628	0	52.82018
ZSCAN18	269.7428	1.221632	8.036876	2.663202
ZSCAN2	28.30635	81.84934	112.5163	70.57486
ZSCAN20	14.98571	18.93529	0	17.75468
ZSCAN21	8.325396	75.13036	28.12907	63.91685
ZSCAN22	24.14365	25.04345	16.07375	24.41269
ZSCAN23	0	0	0	3.550936
ZSCAN29	48.2873	70.85465	64.29501	129.1653
ZSCAN30	29.97142	21.98937	12.05531	68.35552
ZSCAN4	14.15317	0	0	2.219335
ZSCAN5A	43.29206	9.773055	0	8.433473
ZSCAN5B	0.83254	0	0	0
ZSWIM1	121.5508	84.2926	32.1475	93.65594
ZSWIM2	0	0	0	0.443867
ZSWIM3	50.78491	25.04345	48.22126	35.50936
ZSWIM4	69.93332	70.24383	52.23969	116.2932
ZSWIM5	7.492856	5.497344	84.3872	11.54054
ZSWIM6	54.11507	85.51423	132.6085	113.63
ZSWIM7	67.43571	129.493	104.4794	90.105
ZUFSP	46.62222	42.1463	152.7006	37.7287
ZW10	101.5698	143.5417	96.44251	106.0842
ZWILCH	49.95237	69.0222	0	57.70271

ZWINT	398.7865	544.8478	0	467.392
ZXDA	12.48809	4.886528	12.05531	7.101872
ZXDB	19.14841	24.43264	20.09219	28.85136
ZXDC	835.8697	182.634	48.22126	223.2651
ZYG11A	0.83254	0	0	0
ZYG11B	35.7992	36.64896	44.20282	37.28483
ZYX	1561.012	1238.124	1305.992	879.7444
ZZEF1	221.4555	175.3042	148.6822	242.7953
ZZZ3	46.62222	111.1685	261.1985	118.5125
tAKR	0	0.610816	0	2.219335